



SACRAMENTO STATE

Sent via email: jdf-pcwd@sbcglobal.net

June 26, 2025

CA1010026

JASON FRANKLIN, GENERAL MANAGER
PINEDALE COUNTY WATER DISTRICT
480 W. BIRCH AVE.
PINEDALE, CA 93650

**GENERAL ORDER NO. DW-2024-0002-DDW NOTIFICATION OF PFAS RESULTS FOR
CA1010026_009_009, WELL 09 - RAW - PFAS DETECTED ABOVE NOTIFICATION LEVEL**

You are receiving this document because a water source for PINEDALE COUNTY WATER DISTRICT public water system (PWS) was required to be tested for Per- and Polyfluoroalkyl Substances (PFAS) under the General Order DW 2024-0002-DDW (2024 Order). This document is to notify you that one or more PFAS chemicals were detected above the Notification Level via US Environmental Protection Agency (EPA) Method 533 in the PWS source (WELL 09 - RAW) with a primary station (PS) code of CA1010026_009_009. The analytical laboratory results for those PFAS compounds with notification and response levels issued by the State Water Board's Division of Drinking Water are presented in the table below.

Well Results Table for PFAS with Notification and Response Levels

PFAS	Sample Result ¹ (ng/L, ppt)	CCRD ² (ng/L, ppt)	Notification Level ³ (ng/L, ppt)	Response Level ^{3, 4} (ng/L, ppt)
PFOA	11	4	5.1	10
PFOS	7	4	6.5	40
PFHxS	3.7	3	3	20
PFBS	5.4	3	500	5,000

Notes:

ng/L = nanograms per liter

ppt = parts per trillion

ND = not detected above the laboratory reporting limit

¹By US EPA Method 533

²The CCRDL is based on the US EPA UCMR 5 minimum reporting levels and listed in Exhibit B of the General Order (Order), dated March 4, 2024, and issued to the public water system. The Order can be accessed on the State Water Board's Division of Drinking Water website at

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas_ddw_general_order/.

³A description of the notification and response level terminology can be found in the Order.

⁴The specific methodology to determine response level exceedances is dependent on the PFAS analyte and health endpoint. An exceedance of the response level for PFOA and PFOS is based on a quarterly running annual average (QRAA). An explanation on how QRAA is calculated is provided in the 2024 Order.

Furthermore, the PWS source (WELL 09 - RAW) with PS code of CA1010026_009_009 was analyzed for PFAS chemicals that cannot be specifically identified. The concentration of organofluorine (as adsorbable organic fluorine) is a proxy for total PFAS and was determined to be ND ng/L (nanograms per liter) via a method modeled after US EPA Method 1621.

The analytical lab report for the EPA Method 533 and modified 1621 analytical tests performed on the sample collected on 05/08/2025 from WELL 09 - RAW are attached (Attachment 1).

Please note that there are thousands of different PFAS, some of which have been more widely used and studied than others. Scientific research suggests that exposure to certain PFAS may lead to adverse health outcomes. Research is still ongoing to determine how exposure to these different PFAS chemicals occurs and how they can affect human health.

ACTIONS REQUIRED

1. By **July 28, 2025** notify your local agency governing the area in which your drinking water consumers reside (e.g., city council, county board of supervisors). If the PWS is a water company regulated by the California Public Utilities Commission ("Commission"), then your PWS must also notify the Commission. Governing Body Notification Templates (Attachment 2) are provided and must be used to fulfill this directive, unless otherwise approved by the State Water Board. The PWS must edit the wording of the notice as necessary. **The PWS must edit the wording of the notice as necessary. The PWS must send the notice(s) for PFAS chemical(s) exceeding the NL.**
2. The PWS is required to report any PFAS detections above CCRDL in the annual Consumer Confidence Report (CCR) when PFAS is detected above CCRDL. Guidance is provided as follows depending on the PFAS that exceeds the CCRDL.

If any PFAS chemicals **other than PFOA, PFOS, PFHxS, or PFBS** are found to be at concentrations above the corresponding CCRDLs, the PWS may also include the following health effects language in the CCR:

"Please note that there are thousands of different PFAS, some of which have been more widely used and studied than others. Scientific research suggests that exposure to certain PFAS may lead to adverse health outcomes. Research is still ongoing to determine how exposure to these different PFAS chemicals occurs and how they can affect human health."

If **PFOA** was at the concentration above the corresponding CCRDL, PWS may also add the following health effects language in the CCR:

"Perfluorooctanoic acid exposures resulted in increased liver weight and cancer in laboratory animals."

If **PFOS** was at the concentration above the corresponding CCRDL, PWS may also add the following health effects language in the CCR:

"Perfluorooctanesulfonic acid exposures resulted in immune suppression and cancer in laboratory animals."

If **PFHxS** was at the concentration above the corresponding CCRDL, PWS may also add the following health effects language in the CCR:

"Perfluorohexane sulfonic acid exposures resulted in decreased total thyroid hormone in male rats."

If **PFBS** was at the concentration above the corresponding CCRDL, PWS may also add the following health effects language in the CCR:

"Perfluorobutane sulfonic acid exposures resulted in decreased thyroid hormone in pregnant female mice."

Additional information about the CCR including details on reporting requirements can be found on the following webpage https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/CCR.html.

Attached is a fact sheet (Attachment 2) for more general information about PFAS and actions being taken to understand the occurrence in drinking water in California. This fact sheet has been translated into multiple languages other than English (i.e. Spanish, Cantonese, Mandarin, Arabic, French, Farsi, Korean, Russian, Vietnamese) and available for distribution to your staff and customers. Contact California State University, Sacramento's Office of Water Programs (OWP) at pfas@owp.csus.edu and available on the web portal (<https://pfas.owp.csus.edu/>) to download under Resources.

Thank you for your cooperation with the State Water Resources Control Board, Division of Drinking Water. If you have any questions regarding this document, please contact the California State University, Sacramento's Office of Water Programs (OWP) at pfas@owp.csus.edu.

cc: pcwdusa@gmail.com
DWPDIST12@waterboards.ca.gov
adam.forbes@waterboards.ca.gov

Attachments:

1. Analytical Laboratory Report
2. Governing Body Notification Template
3. PFAS Fact Sheet

Filename: CA1010026_009_009_Above_NL_06.26.2025.PDF

ATTACHMENT 1 – ANALYTICAL LABORATORY REPORT



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Babcock Laboratories, Inc. - Riverside
6100 Quail Valley Court
Riverside, CA 92507-0704
(951) 653-3351

10 June 2025

Wendy Linck

State Water Resources Control Board - DDW

1001 I Street, 18th Floor

Sacramento, CA 95814

RE: PFASDAC2024SamplingEvent

Dear Wendy Linck,

The following pages contain the analytical results for the sample(s) received for your project. The second page of this report lists the individual sample descriptions with the corresponding laboratory number(s). We have also provided a copy of the Chain of Custody document (if received with your sample(s)). Please note that any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our Client Service Department.

Sincerely,

Julieta Melissa Machuca For Alexandria L. Guerra
Special Programs Coordinator



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Babcock Laboratories, Inc. - Riverside
6100 Quail Valley Court
Riverside, CA 92507-0704
(951) 653-3351

State Water Resources Control Board - DDW
1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Lab ID	Matrix	Station Code	Location Code	Sampled	Received
CA1010026_009_009_S_533	C5E1377-01	Water	N/A	N/A	05/08/25 10:27	05/09/25 10:00
CA1010026_009_009_S_AOF	C5E1377-02	Water	N/A	N/A	05/08/25 10:27	05/09/25 10:00
CA1010026_009_009_FB_533	C5E1377-03	Water	N/A	N/A	05/08/25 10:07	05/09/25 10:00

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Julieta Melissa Machuca For Alexandria L. Guerra, Special Programs Coordinator



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State Water Resources Control Board - DDW
1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

CA1010026_009_009_S_533
C5E1377-01 (Water, Sampled: 05/08/25 10:27)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Per-/Polyfluorinated Alkyl Substances

11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND		2.0	ng/L	1	5E27133	05/27/25	05/29/25	EPA 533	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND		2.0	"	"	"	"	"	"	
4:2 Fluorotelomer Sulfonate	ND		2.0	"	"	"	"	"	"	
6:2 Fluorotelomer Sulfonate	ND		5.0	"	"	"	"	"	"	
8:2 Fluorotelomer Sulfonate	ND		5.0	"	"	"	"	"	"	
9-chlorohexadecafluoro-3-oxanone- 1-sulfonic Acid	ND		2.0	"	"	"	"	"	"	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		2.0	"	"	"	"	"	"	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	"	"	"	"	"	"	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND		2.0	"	"	"	"	"	"	
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	"	"	"	"	"	"	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	"	"	"	"	"	"	
Perfluorobutanesulfonic Acid (PFBS)	5.4		2.0	"	"	"	"	"	"	
Perfluorobutanoic acid (PFBA)	6.1		2.0	"	"	"	"	"	"	
Perfluorodecanoic Acid (PFDA)	ND		2.0	"	"	"	"	"	"	
Perfluorododecanoic Acid (PFDoDA)	ND		2.0	"	"	"	"	"	"	
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	"	"	"	"	"	"	
Perfluoroheptanoic Acid (PFHpA)	13		2.0	"	"	"	"	"	"	
Perfluorohexanesulfonic Acid (PFHxS)	3.7		2.0	"	"	"	"	"	"	
Perfluorohexanoic Acid (PFHxA)	14		2.0	"	"	"	"	"	"	
Perfluorononanoic Acid (PFNA)	ND		2.0	"	"	"	"	"	"	
Perfluorooctanesulfonic Acid (PFOS)	7.0		2.0	"	"	"	"	"	"	
Perfluorooctanoic Acid (PFOA)	11		2.0	"	"	"	"	"	"	
Perfluoropentanesulfonate (PFPeS)	ND		2.0	"	"	"	"	"	"	

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1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

CA1010026_009_009_S_533
C5E1377-01 (Water, Sampled: 05/08/25 10:27)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Per-/Polyfluorinated Alkyl Substances

Perfluoropentanoic acid (PFPeA)	17	2.0	ng/L	1	5E27133	05/27/25	05/29/25	EPA 533
Perfluoroundecanoic Acid (PFUnA)	ND	2.0	"	"	"	"	"	"
Surrogate: 13C2-4:2 FTS-[IDA]		132 %	50-200		"	"	"	"
Surrogate: 13C2-6:2-FTS-[IDA]		120 %	50-200		"	"	"	"
Surrogate: 13C2-8:2 FTS-[IDA]		112 %	50-200		"	"	"	"
Surrogate: 13C2-PFDoA-[IDA]		79 %	50-200		"	"	"	"
Surrogate: 13C3-HFPO-DA-[IDA]		74 %	50-200		"	"	"	"
Surrogate: 13C3-PFBS-[IDA]		88 %	50-200		"	"	"	"
Surrogate: 13C3-PFHxS-[IDA]		94 %	50-200		"	"	"	"
Surrogate: 13C4-PFBA-[IDA]		65 %	50-200		"	"	"	"
Surrogate: 13C4-PFHpA-[IDA]		81 %	50-200		"	"	"	"
Surrogate: 13C5-PFHxA-[IDA]		74 %	50-200		"	"	"	"
Surrogate: 13C5-PFPeA-[IDA]		68 %	50-200		"	"	"	"
Surrogate: 13C6-PFDA-[IDA]		85 %	50-200		"	"	"	"
Surrogate: 13C7-PFUnA-[IDA]		80 %	50-200		"	"	"	"
Surrogate: 13C8-PFOA-[IDA]		83 %	50-200		"	"	"	"
Surrogate: 13C8-PFOS-[IDA]		90 %	50-200		"	"	"	"
Surrogate: 13C9-PFNA-[IDA]		85 %	50-200		"	"	"	"

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Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

CA1010026_009_009_S_AOF
C5E1377-02 (Water, Sampled: 05/08/25 10:27)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Aggregate Organic Compounds										
AOF (Adsorbable Organic Fluorine)	ND		800	ng/L	1	5F06096	06/06/25	06/06/25	ESB SOP T758	

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Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

CA1010026_009_009_FB_533
C5E1377-03 (Water, Sampled: 05/08/25 10:07)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Per-/Polyfluorinated Alkyl Substances										
11-chloroeicosafluoro 3oxaundecane-1-sulfonic Acid	ND		1.8	ng/L	1	5E27133	05/27/25	05/29/25	EPA 533	
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND		1.8	"	"	"	"	"	"	
4:2 Fluorotelomer Sulfonate	ND		1.8	"	"	"	"	"	"	
6:2 Fluorotelomer Sulfonate	ND		4.5	"	"	"	"	"	"	
8:2 Fluorotelomer Sulfonate	ND		4.5	"	"	"	"	"	"	
9-chlorohexadecafluoro-3-oxanone- 1-sulfonic Acid	ND		1.8	"	"	"	"	"	"	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		1.8	"	"	"	"	"	"	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8	"	"	"	"	"	"	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND		1.8	"	"	"	"	"	"	
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8	"	"	"	"	"	"	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8	"	"	"	"	"	"	
Perfluorobutanesulfonic Acid (PFBS)	ND		1.8	"	"	"	"	"	"	
Perfluorobutanoic acid (PFBA)	ND		1.8	"	"	"	"	"	"	
Perfluorodecanoic Acid (PFDA)	ND		1.8	"	"	"	"	"	"	
Perfluorododecanoic Acid (PFDDA)	ND		1.8	"	"	"	"	"	"	
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	"	"	"	"	"	"	
Perfluoroheptanoic Acid (PFHpA)	ND		1.8	"	"	"	"	"	"	
Perfluorohexanesulfonic Acid (PFHxS)	ND		1.8	"	"	"	"	"	"	
Perfluorohexanoic Acid (PFHxA)	ND		1.8	"	"	"	"	"	"	
Perfluorononanoic Acid (PFNA)	ND		1.8	"	"	"	"	"	"	
Perfluorooctanesulfonic Acid (PFOS)	ND		1.8	"	"	"	"	"	"	
Perfluorooctanoic Acid (PFOA)	ND		1.8	"	"	"	"	"	"	
Perfluoropentanesulfonate (PFPeS)	ND		1.8	"	"	"	"	"	"	
Perfluoropentanoic acid (PFPeA)	ND		1.8	"	"	"	"	"	"	

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1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

CA1010026_009_009_FB_533
C5E1377-03 (Water, Sampled: 05/08/25 10:07)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Per-/Polyfluorinated Alkyl Substances

Perfluoroundecanoic Acid (PFUnA)	ND	1.8	ng/L	1	5E27133	05/27/25	05/29/25	EPA 533	
Surrogate: 13C2-4:2 FTS-[IDA]		114 %	50-200		"	"	"	"	
Surrogate: 13C2-6:2-FTS-[IDA]		116 %	50-200		"	"	"	"	
Surrogate: 13C2-8:2 FTS-[IDA]		129 %	50-200		"	"	"	"	
Surrogate: 13C2-PFDoA-[IDA]		84 %	50-200		"	"	"	"	
Surrogate: 13C3-HFPO-DA-[IDA]		88 %	50-200		"	"	"	"	
Surrogate: 13C3-PFBS-[IDA]		99 %	50-200		"	"	"	"	
Surrogate: 13C3-PFHxS-[IDA]		99 %	50-200		"	"	"	"	
Surrogate: 13C4-PFBA-[IDA]		80 %	50-200		"	"	"	"	
Surrogate: 13C4-PFHpA-[IDA]		94 %	50-200		"	"	"	"	
Surrogate: 13C5-PFHxA-[IDA]		91 %	50-200		"	"	"	"	
Surrogate: 13C5-PFPeA-[IDA]		90 %	50-200		"	"	"	"	
Surrogate: 13C6-PFDA-[IDA]		90 %	50-200		"	"	"	"	
Surrogate: 13C7-PFUnA-[IDA]		88 %	50-200		"	"	"	"	
Surrogate: 13C8-PFOA-[IDA]		93 %	50-200		"	"	"	"	
Surrogate: 13C8-PFOS-[IDA]		93 %	50-200		"	"	"	"	
Surrogate: 13C9-PFNA-[IDA]		92 %	50-200		"	"	"	"	

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Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

Blank (5E27133-BLK1)

Prepared: 05/27/25 Analyzed: 05/28/25

Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	2.0	"								
Perfluorohexanoic Acid (PFHxA)	ND	2.0	"								
Perfluoroheptanoic Acid (PFHpA)	ND	2.0	"								
Perfluorooctanoic Acid (PFOA)	ND	2.0	"								
Perfluorononanoic Acid (PFNA)	ND	2.0	"								
Perfluorodecanoic Acid (PFDA)	ND	2.0	"								
Perfluoroundecanoic Acid (PFUnA)	ND	2.0	"								
Perfluorododecanoic Acid (PFDoDA)	ND	2.0	"								
Perfluorobutanesulfonic Acid (PFBS)	ND	2.0	"								
Perfluoropentanesulfonate (PFPeS)	ND	2.0	"								
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.0	"								
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	"								
Perfluorooctanesulfonic Acid (PFOS)	ND	2.0	"								
4:2 Fluorotelomer Sulfonate	ND	2.0	"								
6:2 Fluorotelomer Sulfonate	ND	5.0	"								
8:2 Fluorotelomer Sulfonate	ND	5.0	"								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	"								
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	ND	2.0	"								
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	ND	2.0	"								
11-chloroeicosafluoro 3-oxaundecane-1-sulfonic Acid	ND	2.0	"								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	"								
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	"								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	"								
Surrogate: 13C9-PFNA-[IDA]	18.3		"	20.0		92	50-200				
Surrogate: 13C8-PFOS-[IDA]	17.6		"	19.1		92	50-200				
Surrogate: 13C8-PFOA-[IDA]	17.9		"	20.0		89	50-200				
Surrogate: 13C7-PFUnA-[IDA]	18.0		"	20.0		90	50-200				
Surrogate: 13C6-PFDA-[IDA]	18.4		"	20.0		92	50-200				
Surrogate: 13C5-PFPeA-[IDA]	16.7		"	20.0		84	50-200				

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Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

Blank (5E27133-BLK1)

Prepared: 05/27/25 Analyzed: 05/28/25

Surrogate: 13C5-PFHxA-[IDA]	17.0			ng/L	20.0		85	50-200			
Surrogate: 13C4-PFHpA-[IDA]	17.7			"	20.0		88	50-200			
Surrogate: 13C4-PFBA-[IDA]	14.7			"	20.0		73	50-200			
Surrogate: 13C3-PFHxS-[IDA]	18.5			"	18.9		98	50-200			
Surrogate: 13C3-PFBS-[IDA]	17.7			"	18.6		95	50-200			
Surrogate: 13C2-PFDoA-[IDA]	18.0			"	20.0		90	50-200			
Surrogate: 13C2-8:2 FTS-[IDA]	83.2			"	76.8		108	50-200			
Surrogate: 13C2-6:2 FTS-[IDA]	76.9			"	76.0		101	50-200			
Surrogate: 13C2-4:2 FTS-[IDA]	78.6			"	74.8		105	50-200			
Surrogate: 13C3-HFPO-DA-[IDA]	16.2			"	20.0		81	50-200			

Babcock Laboratories, Inc. - Riverside

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State Water Resources Control Board - DDW
1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

LCS (5E27133-BS1)

Prepared: 05/27/25 Analyzed: 05/28/25

Perfluorobutanoic acid (PFBA)	1.6	2.0	ng/L	2.00	79	50-150
Perfluoropentanoic acid (PFPeA)	1.8	2.0	"	2.00	88	50-150
Perfluorohexanoic Acid (PFHxA)	1.8	2.0	"	2.00	88	50-150
Perfluoroheptanoic Acid (PFHpA)	1.8	2.0	"	2.00	88	50-150
Perfluorooctanoic Acid (PFOA)	1.8	2.0	"	2.00	92	50-150
Perfluorononanoic Acid (PFNA)	1.8	2.0	"	2.00	88	50-150
Perfluorodecanoic Acid (PFDA)	1.8	2.0	"	2.00	89	50-150
Perfluoroundecanoic Acid (PFUnA)	1.7	2.0	"	2.00	87	50-150
Perfluorododecanoic Acid (PFDoDA)	1.8	2.0	"	2.00	88	50-150
Perfluorobutanesulfonic Acid (PFBS)	1.8	2.0	"	2.00	90	50-150
Perfluoropentanesulfonate (PFPeS)	1.7	2.0	"	2.00	85	50-150
Perfluorohexanesulfonic Acid (PFHxS)	1.8	2.0	"	2.00	88	50-150
Perfluoroheptanesulfonic acid (PFHpS)	1.7	2.0	"	2.00	87	50-150
Perfluorooctanesulfonic Acid (PFOS)	1.7	2.0	"	2.00	85	50-150
4:2 Fluorotelomer Sulfonate	1.8	2.0	"	2.00	89	50-150
6:2 Fluorotelomer Sulfonate	2.0	5.0	"	2.00	98	50-150
8:2 Fluorotelomer Sulfonate	1.8	5.0	"	2.00	90	50-150
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.8	2.0	"	2.00	88	50-150
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	1.6	2.0	"	2.00	79	50-150
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	1.4	2.0	"	2.00	71	50-150
11-chloroeicosafluoro 3-oxaundecane-1-sulfonic Acid	1.6	2.0	"	2.00	79	50-150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.7	2.0	"	2.00	83	50-150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.7	2.0	"	2.00	85	50-150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.6	2.0	"	2.00	80	50-150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.7	2.0	"	2.00	83	50-150
Surrogate: 13C9-PFNA-[IDA]	18.5		"	20.0	93	50-200
Surrogate: 13C8-PFOS-[IDA]	17.9		"	19.1	94	50-200
Surrogate: 13C8-PFOA-[IDA]	17.9		"	20.0	90	50-200
Surrogate: 13C7-PFUnA-[IDA]	18.1		"	20.0	91	50-200
Surrogate: 13C6-PFDA-[IDA]	18.6		"	20.0	93	50-200
Surrogate: 13C5-PFPeA-[IDA]	17.3		"	20.0	87	50-200
Surrogate: 13C5-PFHxA-[IDA]	17.3		"	20.0	87	50-200

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1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

LCS (5E27133-BS1)

Prepared: 05/27/25 Analyzed: 05/28/25

Surrogate: 13C4-PFHpA-[IDA]	17.8			ng/L	20.0		89	50-200			
Surrogate: 13C4-PFBA-[IDA]	15.0			"	20.0		75	50-200			
Surrogate: 13C3-PFHxS-[IDA]	18.1			"	18.9		96	50-200			
Surrogate: 13C3-PFBS-[IDA]	17.9			"	18.6		96	50-200			
Surrogate: 13C2-PFDoA-[IDA]	18.2			"	20.0		91	50-200			
Surrogate: 13C2-8:2 FTS-[IDA]	83.4			"	76.8		109	50-200			
Surrogate: 13C2-6:2-FTS-[IDA]	79.4			"	76.0		104	50-200			
Surrogate: 13C2-4:2 FTS-[IDA]	77.5			"	74.8		104	50-200			
Surrogate: 13C3-HFPO-DA-[IDA]	16.6			"	20.0		83	50-200			

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Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	----	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E27133, Prep Method: SPE, Analyst: MOF

Matrix Spike (5E27133-MS1)		Source: C5E1377-01			Prepared: 05/27/25		Analyzed: 05/28/25				
Perfluorobutanoic acid (PFBA)	15	2.0	ng/L	9.23	6.1	93	70-130				QISm
Perfluoropentanoic acid (PFPeA)	26	2.0	"	9.23	17	95	70-130				QISm
Perfluorohexanoic Acid (PFHxA)	22	2.0	"	9.23	14	91	70-130				
Perfluoroheptanoic Acid (PFHpA)	21	2.0	"	9.23	13	94	70-130				
Perfluorooctanoic Acid (PFOA)	19	2.0	"	9.23	11	93	70-130				
Perfluorononanoic Acid (PFNA)	9.9	2.0	"	9.23	1.1	96	70-130				
Perfluorodecanoic Acid (PFDA)	9.4	2.0	"	9.23	ND	102	70-130				
Perfluoroundecanoic Acid (PFUnA)	8.9	2.0	"	9.23	ND	96	70-130				
Perfluorododecanoic Acid (PFDoDA)	9.1	2.0	"	9.23	ND	98	70-130				
Perfluorobutanesulfonic Acid (PFBS)	14	2.0	"	9.23	5.4	95	70-130				
Perfluoropentanesulfonate (PFPeS)	9.4	2.0	"	9.23	0.81	93	70-130				
Perfluorohexanesulfonic Acid (PFHxS)	12	2.0	"	9.23	3.7	93	70-130				
Perfluoroheptanesulfonic acid (PFHpS)	8.9	2.0	"	9.23	ND	97	70-130				
Perfluorooctanesulfonic Acid (PFOS)	16	2.0	"	9.23	7.0	92	70-130				
4:2 Fluorotelomer Sulfonate	9.0	2.0	"	9.23	ND	97	70-130				
6:2 Fluorotelomer Sulfonate	9.5	5.0	"	9.23	ND	103	70-130				
8:2 Fluorotelomer Sulfonate	9.4	5.0	"	9.23	ND	102	70-130				
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.0	2.0	"	9.23	ND	97	70-130				QISm
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	7.5	2.0	"	9.23	ND	81	70-130				
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	7.2	2.0	"	9.23	ND	78	70-130				
11-chloroeicosafluoro 3-oxaundecane-1-sulfonic Acid	8.1	2.0	"	9.23	ND	88	70-130				
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	29	2.0	"	36.9	ND	79	70-130				
Perfluoro-4-methoxybutanoic acid (PFMBA)	8.4	2.0	"	9.23	ND	92	70-130				QISm
Perfluoro-3-methoxypropanoic acid (PFMPA)	7.7	2.0	"	9.23	ND	84	70-130				QISm
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.6	2.0	"	9.23	ND	93	70-130				
Surrogate: 13C9-PFNA-[IDA]	10.3		"	18.5		56	50-200				
Surrogate: 13C8-PFOS-[IDA]	17.3		"	17.6		98	50-200				
Surrogate: 13C8-PFOA-[IDA]	10.0		"	18.5		54	50-200				
Surrogate: 13C7-PFUnA-[IDA]	11.1		"	18.5		60	50-200				
Surrogate: 13C6-PFDA-[IDA]	10.6		"	18.5		57	50-200				
Surrogate: 13C5-PFPeA-[IDA]	8.22		"	18.5		45	50-200				QSint
Surrogate: 13C5-PFHxA-[IDA]	9.39		"	18.5		51	50-200				

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1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

Matrix Spike (5E27133-MS1)	Source: C5E1377-01			Prepared: 05/27/25 Analyzed: 05/28/25							
Surrogate: 13C4-PFHpA-[IDA]	9.80			ng/L	18.5		53	50-200			
Surrogate: 13C4-PFBA-[IDA]	7.89			"	18.5		43	50-200			QSint
Surrogate: 13C3-PFHxS-[IDA]	17.6			"	17.5		101	50-200			
Surrogate: 13C3-PFBS-[IDA]	16.8			"	17.2		98	50-200			
Surrogate: 13C2-PFDoA-[IDA]	12.3			"	18.5		67	50-200			
Surrogate: 13C2-8:2 FTS-[IDA]	83.9			"	70.8		118	50-200			
Surrogate: 13C2-6:2-FTS-[IDA]	85.5			"	70.1		122	50-200			
Surrogate: 13C2-4:2 FTS-[IDA]	96.0			"	69.0		139	50-200			
Surrogate: 13C3-HFPO-DA-[IDA]	8.25			"	18.5		45	50-200			QSint

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Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

Matrix Spike Dup (5E27133-MSD1)		Source: C5E1377-01			Prepared: 05/27/25 Analyzed: 05/28/25						
Perfluorobutanoic acid (PFBA)	15	2.0	ng/L	9.19	6.1	99	70-130	7	30		
Perfluoropentanoic acid (PFPeA)	26	2.0	"	9.19	17	101	70-130	6	30		
Perfluorohexanoic Acid (PFHxA)	23	2.0	"	9.19	14	100	70-130	10	30		
Perfluoroheptanoic Acid (PFHpA)	22	2.0	"	9.19	13	103	70-130	9	30		
Perfluorooctanoic Acid (PFOA)	20	2.0	"	9.19	11	97	70-130	5	30		
Perfluorononanoic Acid (PFNA)	10	2.0	"	9.19	1.1	101	70-130	4	30		
Perfluorodecanoic Acid (PFDA)	9.5	2.0	"	9.19	ND	104	70-130	2	30		
Perfluoroundecanoic Acid (PFUnA)	9.6	2.0	"	9.19	ND	104	70-130	8	30		
Perfluorododecanoic Acid (PFDoDA)	9.7	2.0	"	9.19	ND	105	70-130	7	30		
Perfluorobutanesulfonic Acid (PFBS)	14	2.0	"	9.19	5.4	98	70-130	2	30		
Perfluoropentanesulfonate (PFPeS)	10	2.0	"	9.19	0.81	100	70-130	7	30		
Perfluorohexanesulfonic Acid (PFHxS)	13	2.0	"	9.19	3.7	102	70-130	10	30		
Perfluoroheptanesulfonic acid (PFHpS)	9.2	2.0	"	9.19	ND	100	70-130	4	30		
Perfluorooctanesulfonic Acid (PFOS)	16	2.0	"	9.19	7.0	95	70-130	3	30		
4:2 Fluorotelomer Sulfonate	9.4	2.0	"	9.19	ND	102	70-130	5	30		
6:2 Fluorotelomer Sulfonate	10	5.0	"	9.19	ND	111	70-130	7	30		
8:2 Fluorotelomer Sulfonate	9.6	5.0	"	9.19	ND	104	70-130	2	30		
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.6	2.0	"	9.19	ND	105	70-130	8	30		
4,8-dioxa-3H-perfluorononanoic Acid (ADONA)	7.6	2.0	"	9.19	ND	83	70-130	2	30		
9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid	7.2	2.0	"	9.19	ND	79	70-130	2	30		
11-chloroeicosafluoro 3-oxaundecane-1-sulfonic Acid	8.5	2.0	"	9.19	ND	92	70-130	5	30		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	33	2.0	"	36.8	ND	89	70-130	11	30		
Perfluoro-4-methoxybutanoic acid (PFMBA)	9.0	2.0	"	9.19	ND	97	70-130	6	30		
Perfluoro-3-methoxypropanoic acid (PFMPA)	8.2	2.0	"	9.19	ND	89	70-130	6	30		
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.1	2.0	"	9.19	ND	99	70-130	6	30		
Surrogate: 13C9-PFNA-[IDA]	13.8		"	18.4		75	50-200				
Surrogate: 13C8-PFOS-[IDA]	15.8		"	17.6		90	50-200				
Surrogate: 13C8-PFOA-[IDA]	12.9		"	18.4		70	50-200				
Surrogate: 13C7-PFUnA-[IDA]	14.2		"	18.4		77	50-200				
Surrogate: 13C6-PFDA-[IDA]	14.2		"	18.4		77	50-200				
Surrogate: 13C5-PFPeA-[IDA]	10.0		"	18.4		55	50-200				
Surrogate: 13C5-PFHxA-[IDA]	11.3		"	18.4		62	50-200				

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Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E27133, Prep Method: SPE, Analyst: MOF

Matrix Spike Dup (5E27133-MSD1) Source: C5E1377-01 Prepared: 05/27/25 Analyzed: 05/28/25

Surrogate: 13C4-PFHpA-[IDA]	12.3		ng/L	18.4	67	50-200
Surrogate: 13C4-PFBA-[IDA]	9.60		"	18.4	52	50-200
Surrogate: 13C3-PFHxS-[IDA]	16.5		"	17.4	95	50-200
Surrogate: 13C3-PFBS-[IDA]	15.6		"	17.1	91	50-200
Surrogate: 13C2-PFDoA-[IDA]	14.9		"	18.4	81	50-200
Surrogate: 13C2-8:2 FTS-[IDA]	77.3		"	70.6	110	50-200
Surrogate: 13C2-6:2-FTS-[IDA]	81.4		"	69.9	117	50-200
Surrogate: 13C2-4:2 FTS-[IDA]	90.6		"	68.8	132	50-200
Surrogate: 13C3-HFPO-DA-[IDA]	10.2		"	18.4	55	50-200

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Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Per-/Polyfluorinated Alkyl Substances - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Aggregate Organic Compounds - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5F06096, Prep Method: None, Analyst: NAA

Blank (5F06096-BLK1)

Prepared & Analyzed: 06/06/25

AO (Adsorbable Organic Fluorine) ND 800 ng/L

Blank (5F06096-BLK2)

Prepared & Analyzed: 06/06/25

AO (Adsorbable Organic Fluorine) ND 800 ng/L

LCS (5F06096-BS1)

Prepared & Analyzed: 06/06/25

AO (Adsorbable Organic Fluorine) 8200 800 ng/L 8080 102 70-130

Matrix Spike (5F06096-MS1)

Source: C5E1872-02

Prepared & Analyzed: 06/06/25

AO (Adsorbable Organic Fluorine) 8100 800 ng/L 7770 2500 72 70-130

Matrix Spike Dup (5F06096-MSD1)

Source: C5E1872-02

Prepared & Analyzed: 06/06/25

AO (Adsorbable Organic Fluorine) 8100 800 ng/L 7650 2500 73 70-130 1 30

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Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Notes and Definitions

QISm Due to matrix interference, the internal standard recovery for this QC sample did not meet laboratory acceptance criteria.

QSint Due to matrix interference, the surrogate recovery for this QC sample cannot be accurately quantified or does not meet laboratory acceptance limits.

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Reporting Limit (or Method Detection Limit when listed)
NR	Not Reported
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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(951) 653-3351

State Water Resources Control Board - DDW
1001 I Street, 18th Floor
Sacramento CA, 95814

Project: PFASDAC2024SamplingEvent
Project Number: PFAS DAC Well Sampling
Project Manager: Wendy Linck

Reported:
06/10/25 13:50

Babcock Laboratories, Inc. - Riverside - Certification(s) List

Cert. ID	Description	Cert. Number	Expires
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Babcock Laboratories, Inc. - Riverside

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Collection Agency: CA State Water Board DDW Sample Collection Agency Address: 1001 I Street, Sacramento, CA 95814 PWS Name: PINEDALE COUNTY WATER DISTRICT Project Lead: State Water Resources Control Board/Geosyntec Consultants Name: Wendy Linck Phone: (916) 323-0888 Email: Wendy.linck@waterboards.ca.gov				Agreement No: 23-035-270 Project Codes: PFASDAC2024SamplingEvent PFASDAC2025SamplingEvent Project Name: PFAS DAC Well Sampling Field Lead: Zac Just Regional Lead: Zac Just Phone: 559-256-5868 Email: zachary.just@geosyntec.com				Sample Matrix (See Codes Below) Sample Type (G = Grab; C = Composite; O = Other) Container Size (ml) Container Type (HDPE = High Density Polyethylene) Preservation Code (See the Codes Below) # of Containers		Analyses Requested			Field Quality Meter Readings (last measurement before sample collection)			KIT E	
										Page 1 of 1							
Sample ID				Date		Time		Well Name						Notes			
1) CA1010026_009_009_FB_533				5-8-25		10:07		WELL 09 RAW		DW G 250 HDPE 1,13 2		X				7.37 201.7 0.15	
2) CA1010026_009_009_FB_AOF						10:07		WELL 09 RAW		DW G 250 HDPE 1 1		X					
3) CA1010026_009_009_S_533						10:27		WELL 09 RAW		DW G 250 HDPE 1,13 2		X					
4) CA1010026_009_009_MSMSD_533						10:27		WELL 09 RAW		DW G 250 HDPE 1,13 2		X					
5) CA1010026_009_009_S_AOF						10:27		WELL 09 RAW		DW G 250 HDPE 1 2		X		Hold until directed by SWRCB			
6) CA1010026_009_009_MSMSD_AOF				✓		10:27		WELL 09 RAW		DW G 250 HDPE 1 2		X		Hold until directed by SWRCB			
7)																	
8)																	
9)																	
10)																	

C5E1377
 Re'd: 05/09/2025 10:00
 OZO Manual-PDF

Samples Relinquished By:					Samples Received By:				
Name (Print) and Agency		Signature	Date	Time	Name (Print) and Agency		Signature	Date	Time
1) Zac Just/Geosyntec		<i>[Signature]</i>	5/8/25	12:50	Felix				
2)		Felix			Bianca Garcia		<i>[Signature]</i>	5/9/25	1000
3)									
4)									

Sample Matrix		Preservation Codes		Sample Receipt - Completed by Laboratory personnel:		Laboratory Notes		Special Instructions			
SFW = Surface Fresh Water; SSW = Surface Salt Water; DW = Drinking Water; GW = Ground Water; SW = Stormwater; WW = Wastewater; OL = Other Liquids; SO = Soil / Sediment; SL = Sludge / Slurry; OS = Other Solids; O = Other		1. Cool, < 6 °C; 2. HNO3 3. HCL 4. H2SO4 5. Na2S2O3 6. NaOH 7. NaOH/ZnAcetate 8. NH4CL 9. Tnzma 10. Filtered 11. Freeze, < 10 °C 12. None required 13. NH4CH3CO2		Total Number of Sample Containers Received:		TTT: 61 TAG: 193		Evidence sample handling required?			
				Sample(s) Properly Cooled: ☒ N / NA				Return Shipping Containers?			
				Temperature (°C):							
				Sample(s) Intact: ☒ N / NA		Custody Seal(s) Intact: Y / N / ☒ N		Turn Around Time:		Routine	
				Sample(s) Accepted: ☒ N		Send results to: Project FTP site (https://ftp.waterboards.ca.gov)				*3-5 Day (Rush)	
								*48-Hr (Rush)			

ATTACHMENT 2 – GOVERNING BODY NOTIFICATION TEMPLATE

(Delete red text)

([Replace] blue text)

(Green text is conditional)

Example Letter required by Health and Safe Code §116455 to the water system's governing body and the governing body of any local agency whose jurisdiction includes areas supplied with drinking water by the retail water system. If the retail water system is a water company regulated by the California Public Utilities Commission, then the retail water system shall also notify the commission.

Subject: Notification of PFOA and PFOS and PFHxS and PFBS Notification Level Exceedance

Dear [Local Agency]

The purpose of this letter, consistent with Health and Safety Code Sections 116378 and 116455, is to inform you of the presence of Per- and polyfluoroalkyl substances (PFAS) in the [Water Source, PSCode] that is currently [Operational Status].

(Operational Status options: In service with PFAS Treatment, In service without PFAS Treatment, Out-of-Service, for Emergency Use Only)

Pursuant to Health and Safety Code Sections 116378 and 116455, the [Water System Name] is required to inform its governing body and the governing body of any local agency whose jurisdiction includes the areas supplied with drinking water by the [Water System Name] of concentrations exceeding the Notification Levels for PFAS. These Notification Levels are health-based advisory levels established by the State Water Resources Control Board (State Water Board), Division of Drinking Water (DDW) for chemicals in drinking water that lack maximum contaminant levels. When chemicals are found at concentrations greater than their Notification Levels, certain notification requirements and recommendations apply.

The DDW determined that the Notification Level(s) have been exceeded specifically for PFAS as set forth in the following table (Only include PFAS that exceed their NL(s)):

PFAS	Notification Level	Response Level	Concentration	Health Effects
PFBS	500 ng/L	5000 ng/L	[PFBS_Conc.]	PFBS has been shown to interfere with thyroid hormones levels. Thyroid hormones are needed for normal prenatal growth and development of the fetus, as well as for normal growth and development in the infant and child. In adults, thyroid hormones are needed for normal metabolism and mental function.
PFHxS	3 ng/L	20 ng/L	[PFHxS_Conc.]	PFHxS has been shown to interfere with thyroid hormones levels. Thyroid hormones are needed for normal prenatal growth and development of the fetus, as well as for normal growth and development in the infant and child. In adults, thyroid hormones

PFAS	Notification Level	Response Level	Concentration	Health Effects
				are needed for normal metabolism and mental function.
PFOS	6.5 ng/L	40 ng/L	[PFOS_Conc.]	Some people who drink water containing PFOS in excess of the Notification Level over many years may experience adverse health effects. PFOS exposures have been shown to cause immune suppression and cancer in laboratory animals.
PFOA	5.1 ng/L	10 ng/L	[PFOA_Conc.]	Some people who drink water containing PFOA in excess of the Notification Level over many years may experience adverse health effects. PFOA exposures have been shown to cause increased liver weight and cancer in laboratory animals.

PFAS are manmade substances that have been synthesized for their water and liquid resistance properties. They have been used extensively in consumer products such as carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) designed to be waterproof, stain-resistant or non-stick. In addition, they have been used in fire-retarding foam and various industrial processes. The origin of the contaminant in our water supply at this time is unknown but the water system is working with the State Water Board and other agencies to identify the circumstances of the contamination.

Pursuant to Health and Safety Code section 116378 and , if a chemical is present in drinking water that is provided to consumers at concentrations exceeding the Response Level, the drinking water system must either (1) take the source out of service immediately; (2) utilize treatment or blending; or (3) provide public notification of the Response Level exceedance. Additional information will be provided to our customers in the [PWS_water_system_name] Consumer Confidence Report that comes out next year.

Please refer to the following links for additional information about PFAS:

DDW PFAS Website:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas.html

DDW PFAS Factsheet:

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/2024/pfas-fact-sheet-ddw-2024.pdf

If you have any questions regarding this matter, please contact [Water System Name] at [Water System Number] or at [Water System Email].

Sincerely,

[Signature Block of Water System]

ATTACHMENT 3 – PFAS FACT SHEET



Fact Sheet

Per- and Polyfluoroalkyl Substances (PFAS) Fact Sheet

**State Water Resources Control Board
Division of Drinking Water**

May 2024

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List of Acronyms & Abbreviations

Acronyms/Abbreviations	Definitions
DDW	Division of Drinking Water
MCL	Maximum Contaminants Level
NPDWR	National Primary Drinking Water Regulation
OEHHA	Office of Environmental Health Hazard Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PHG	Public Health Goal
State Water Board	State Water Resources Control Board
US EPA	The U.S. Environmental Protection Agency

Overview

This fact sheet provides information about Per- and Polyfluoroalkyl Substances (PFAS) and State Water Resources Control Board (State Water Board), Division of Drinking Water actions to manage PFAS issues in drinking water in California.

PFAS Background

1. PFAS definition

PFAS, or Per- and Polyfluoroalkyl Substances, are a large group of man-made substances that do not occur naturally in the environment and are resistant to heat, water, oil, grease, and stains. Since the 1940s, PFAS have been used in industry and consumer products, such as non-stick cookware, waterproof clothing, stain-resistant fabrics and carpets, some firefighting foams, and products that resist grease, water, and oil. PFAS can be found in a variety of consumer products and in groundwater.

2. PFAS concerns

Long term exposure to PFAS is potentially harmful to health. A recent review from the [U.S. Centers for Disease Control and Prevention \(CDC\)](https://www.cdc.gov/) outlines that over a long time PFAS may:

- Decrease fertility and birth weight.
- Weaken a body's ability to fight disease.
- Increase the risk for some cancers, asthma, thyroid disease, and liver damage.
- Increase cholesterol levels (which can increase the risk for heart attack or stroke).

Because of the potential health risks of PFAS, the State Water Board requires monitoring PFAS to protect drinking water quality. Monitoring PFAS in drinking water ensures that your water remains safe to drink and helps the State Water Board to protect public health.

3. PFAS found in the environment

PFAS can be found in air, water, and soil in and around manufacturing facilities. Although these releases have been declining since companies began phasing out the production and use of several PFAS in the early 2000s, PFAS are very stable in the environment and are resistant to breaking down. They remain in the environment and the human body for long periods of time. Some PFAS are volatile and can be carried long distances through the air, which may lead to contamination of soil and groundwater far from the source of the PFAS emission.

4. Sources of PFAS

The primary sources of PFAS are: fire training/fire response sites, industrial sites landfills, and wastewater treatment plants/biosolids. The following picture shows examples of products containing PFAS.



Figure 1. Examples of consumer products containing PFAS.

5. Human exposure to PFAS

The main ways that PFAS get into people's bodies are through:

- **Drinking water:** Contaminated drinking water has led to high levels of exposure to PFAS for some populations residing near manufacturing facilities that have used PFAS.
- **Food:** Food produced in water or soil contaminated with PFAS, such as vegetables fish, meat, and eggs may contain PFAS due to bioaccumulation and crop uptake. Also, food packaging made with PFAS can lead to PFAS transfer to food.
- **Consumer Products:** Hand-to-mouth contact with consumer products made with PFAS, such as carpets and textiles, or cosmetics and lotions.
- **Inhalation:** Breathing in contaminated air or household dust can expose people to PFAS. Both outdoor and indoor air or dust may contain PFAS. PFAS in outdoor air may be because of manufacturing releases. Clothing, textiles, and carpets treated with PFAS may result in higher concentrations of some PFAS in indoor air.

PFAS chemicals are not easily absorbed through the skin; therefore, dermal exposure is considered a less significant route of exposure for the general population.

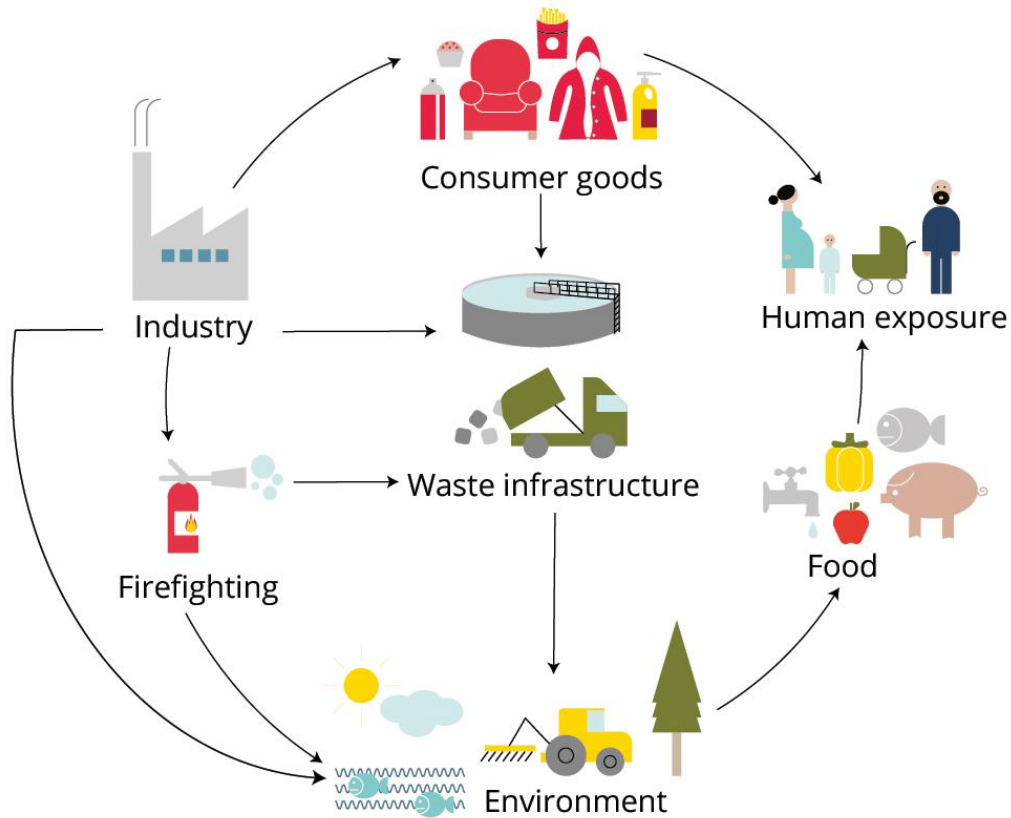


Figure 2. PFAS exposure pathways to the environment and human.
Image is adopted from <https://extension.umaine.edu/livestock/dairy/pfas-and-dairy-animals/>

6. PFAS in drinking water

PFAS can get into drinking water when products containing them are used or spilled onto the ground or into lakes and rivers. Once in groundwater, PFAS are easily transported large distances and can contaminate drinking wells. PFAS in the air can also end up in rivers and lakes used for drinking water. Additional information regarding PFAS fate and transport in the environment may be found on the [Interstate Technology Regulatory Council](https://pfas-1.itrcweb.org/) (<https://pfas-1.itrcweb.org/>).

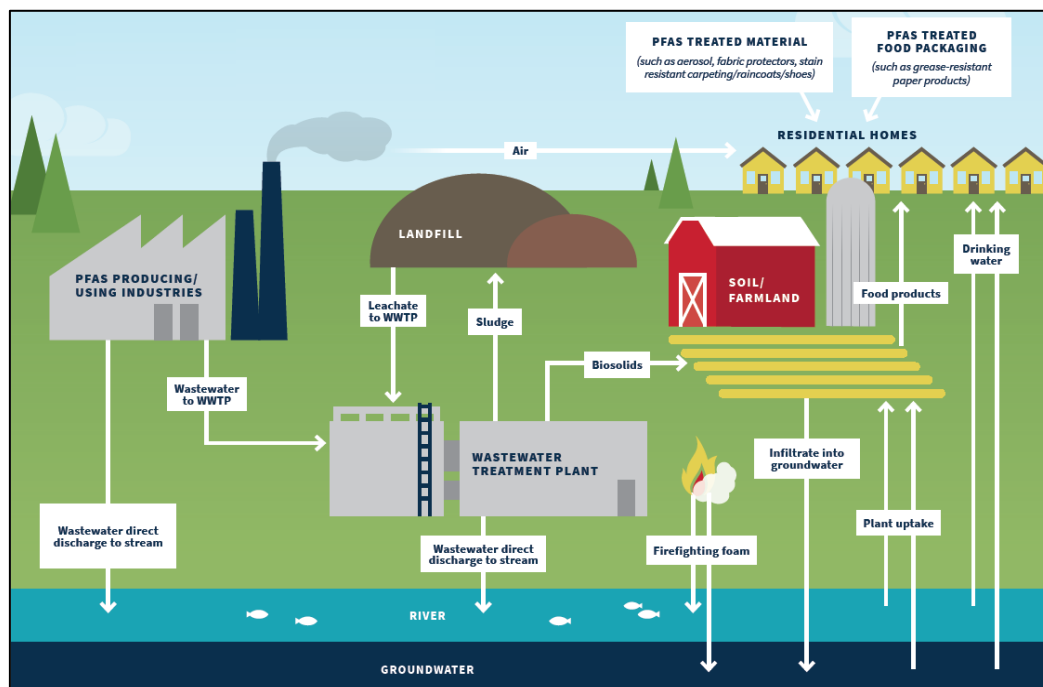


Figure 3. PFAS sources and pathways to drinking water. Image is adopted from <https://health.hawaii.gov/heer/environmental-health/highlighted-projects/pfas/>

7. PFAS production in the United States

The U.S. Environmental Protection Agency (US EPA) has announced that eight major PFAS producers have phased out PFAS from emissions and products. However, manufacturers have developed replacement substances in the PFAS family. Additionally, there could be some imported goods containing these substances.

8. PFAS exposure reduction

Preventing exposure to PFAS is not practical due to the widespread historic and current use of PFAS, which are commonly used in consumer products throughout the world. Exposure can be reduced by avoiding or limiting exposure with some products, as follows:

- Use non-stick coated cookware according to manufacturer guidelines (not all non-stick coatings contain PFAS).
- Use stainless steel or cast-iron cookware in place of non-stick coated items.
- Avoid oil and water-resistant food packaging.
- Avoid stain resistant coatings on carpet, furniture and clothing.

- Avoid water repellants on clothing.
- Use personal care products without “PTFE” or “Fluoro” ingredients.
- Wipe or clean household surfaces with a damp cloth regularly.

The Food and Drug Administration (FDA) recommends that people should eat different types of foods to maintain a healthy diet. They mentioned that the findings from the first tests conducted on various foods didn't show a need to avoid specific foods because of PFAS contamination. More information may be obtained from the [Food and Drug Administration](https://www.fda.gov/food/process-contaminants-food/questions-and-answers-pfas-food) (<https://www.fda.gov/food/process-contaminants-food/questions-and-answers-pfas-food>).

Efforts by the California State Water Resources Control Board (State Water Board) to Address PFAS

9. Efforts to identify the sources of PFAS in California

Since 2019, the State Water Board, Division of Drinking Water (DDW) has been strategically planning and issuing statewide investigative orders to identify the occurrence of PFAS in areas of the highest potential impact to the environment and drinking water. These areas include industrial use of PFAS in fire-fighting foams, at certain industrial applications, and at those industries impacted secondarily by PFAS.

Based on statewide sampling efforts, PFAS has been mostly identified in areas of industrial use of firefighting foams containing PFAS at airports, bulk fuel terminals, refineries, and when PFAS-containing mist suppressants have been used as part of plating processes. However, PFAS has also been identified in landfills and at wastewater treatment plants, because they are receiving PFAS secondarily in waste streams.

10. State Water Board efforts to manage PFAS issues in drinking water

The DDW has issued [several investigation orders](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas_ddw_general_order) (https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas_ddw_general_order) to public water systems requiring testing for PFAS. Most recently, General Order DW 2024-0002-DDW (2024 Order) has been issued to public water systems for monitoring PFAS in community public water systems serving disadvantaged and severely disadvantaged communities. The purpose of this monitoring is to understand PFAS impacts on drinking water in these communities.

California State Assembly Bill 756 (codified as Health and Safety Code section 116378) authorizes the State Water Board to more broadly order public water systems to monitor for PFAS and report their detections. Additional and more assessment might be required in the coming years.

In combination with investigating industrial sources, public water systems have been sampling wells in the vicinity of these areas per State Water Board General Order [DW 2022-0001-DDW](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas_ddw_general_order/)

(https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/pfas_ddw_general_order/).

Additionally, the DDW has issued notification levels and response levels for four common PFAS compounds listed in Table 1. Additional notification and response levels could be issued in the future based on occurrence and recommendations from Office of Environmental Health Hazard Assessment (OEHHA) on the potential risks to human health.

Table 1. Four PFAS constituents with Notification and Response levels in nanograms per liter or parts per trillion.

PFAS Constituent	Notification Level (ng/L or ppt)	Response Level (ng/L or ppt)
Perfluorobutanesulfonic acid (PFBS)	500	5,000
Perfluorohexanesulfonic acid (PFHxS)	3	20
Perfluorooctanesulfonic acid (PFOS)	6.5	40
Perfluorooctanoic acid (PFOA)	5.1	10

11. Notification level and Response level

Notification levels are health-based advisory levels established by the DDW for chemicals in drinking water that lack maximum contaminant levels (MCLs). When chemicals are found at concentrations greater than their notification levels, certain requirements and recommendations apply. The law's notification requirements apply to:

- Wholesale water systems, who must notify their governing bodies and the water systems that are directly supplied with that drinking water.
- Retail water systems, who must notify their governing bodies and the governing bodies of any local agencies (i.e., city or county, or a city and county) whose jurisdictions include areas supplied with their drinking water.

- Wholesale and retail water systems regulated by the California Public Utilities Commission, who must also notify the commission.

Response level is the level at which DDW recommends removal of a drinking water source from service. When a confirmed detection exceeds the response level, a community water system or a nontransient noncommunity public water system is required to:

- Report that detection in the water system's annual consumer confidence report.
- Take a water source where detected levels exceed the response level out of use or provide public notification (as specified in Health and Safety §116378) within 30 days of the confirmed detection.

12. PFAS Notification level or Response level exceedance requirements

Currently, there are only four PFAS with notification levels (refer to Table 1). Additional notification levels could be established for other PFAS as more data and information become available.

If the water system voluntarily samples the well and performs the analytical testing and the results of a PFAS detection are confirmed to exceed its respective notification level, the water system must report the detection within 30 days after the water system is first informed by the laboratory of a confirmed detection of the contaminant that exceeds the notification level.

For the 2024 Order, if the results of a PFAS detection are confirmed to exceed its respective notification level, the State Water Board will already have been notified of the results since the State Water Board's contractor is performing the analytical testing. Therefore, the water system does not need to report the exceedance to the State Water Board.

If the results of a PFAS exceeds a response level, the water system must either (1) take the source out of service immediately; (2) utilize treatment or blending; or (3) provide public notification of the response level exceedance. Additionally, the exceedance of the response level must be reported in the annual consumer confidence report.

13. US EPA issuance of PFAS maximum contaminant levels (MCLs) for drinking water

US EPA published the final federal PFAS Rule establishing the Maximum Contaminants Levels (MCLs) as part of the National Primary Drinking Water Regulation (NPDWR) per Safe Drinking Water Act for regulating drinking water contaminants on April 26, 2024. These levels are set using health-protective standards for the specific PFAS in drinking water, feasibility of laboratory analysis and treatment, and an analysis of the costs and benefits. Water systems must comply with monitoring and related reporting and public notification requirements. Water systems must also follow the MCLs and provide public notification to consumers if the MCLs are violated. Table 2 presents the MCLs. For more information, visit EPA's website at <https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>.

Table 2. PFAS constituents with EPA MCLs in nanograms per liter or parts per trillion.

Compound	EPA MCL
PFOA	4.0 ppt
PFOS	4.0 ppt
PFHxS	10 ppt
PFNA	10 ppt
HFPO-DA (commonly known as GenX Chemicals)	10 ppt
Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS	1 (unitless) Hazard Index*

*USEPA established MCLs for PFAS mixtures containing at least two or more of PFHxS, PFNA, HFPO-DA, and PFBS using a Hazard Index MCL to account for the combined and co-occurring levels of these PFAS in drinking water. For more details about Hazard Index refer to the EPA's factsheet at:

https://www.epa.gov/system/files/documents/2024-04/pfas-ncdwr_fact-sheet_hazard-index_4.8.24.pdf

14. US EPA PFAS MCLs impact on California public water systems compliance

In the final federal PFAS rule establishing MCLs for PFOA, PFOS, PFNA, PFHxS, PFBS, and HFPO-DA (Table 2), the initial monitoring period was set to 3 years (2027) and the compliance period was set to 5 years (2029) after the final rule is promulgated (April 26, 2024).

The DDW must evaluate whether the US EPA MCLs are protective of public health based on the uses of drinking water in California. If DDW is to set their own MCLs they must be equal to or more restrictive than the MCLs set by US EPA. California Health & Safety Code §116365(a) requires a contaminant's MCL

to be established at a level as close to its Public Health Goal (PHG) as is technologically and economically feasible, placing primary emphasis on the protection of public health. PHGs are established by the Office of Environmental Health Hazard Assessment (OEHHA) and then adopted by the DDW.