

June 16, 2023

North Dakota Army National Guard - DoD  
Bldg 30 Fraine Barracks Dr.  
P.O. Box 5511  
Bismarck, ND 58506

RE: Project: PFAS SAMPLING  
Pace Project No.: 35801941

Dear :

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the DOD Quality Systems Manual Version 5.4 and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lorraine Noronha  
lorraine.noronha@pacelabs.com  
(386)672-5668  
Laboratory Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: PFAS SAMPLING

Pace Project No.: 35801941

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### **Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #: ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: PFAS SAMPLING

Pace Project No.: 35801941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35801941001	CGTC 230522 DW01	Drinking Water	05/22/23 10:06	05/24/23 10:25
35801941002	CGTC 230522 DW02	Drinking Water	05/22/23 10:05	05/24/23 10:25
35801941003	CGTC 230522 DW03	Drinking Water	05/22/23 10:25	05/24/23 10:25
35801941004	CGTC 230522 DW04	Drinking Water	05/22/23 10:25	05/24/23 10:25
35801941005	GTA 230522 DW01	Drinking Water	05/22/23 15:06	05/24/23 10:25
35801941006	GTA 230522 DW02	Drinking Water	05/22/23 15:08	05/24/23 10:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: PFAS SAMPLING

Pace Project No.: 35801941

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35801941001	CGTC 230522 DW01	EPA 537.1	JSF	22	PASI-O
35801941002	CGTC 230522 DW02	EPA 537.1	JSF	22	PASI-O
35801941003	CGTC 230522 DW03	EPA 537.1	JSF	22	PASI-O
35801941004	CGTC 230522 DW04	EPA 537.1	JSF	22	PASI-O
35801941005	GTA 230522 DW01	EPA 537.1	JSF	22	PASI-O
35801941006	GTA 230522 DW02	EPA 537.1	JSF	22	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: PFAS SAMPLING

Pace Project No.: 35801941

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**Method:** EPA 537.1

**Description:** 537.1 PFAS Compounds, DOD

**Client:** NDARNG - North Dakota Army National Guard - DoD

**Date:** June 16, 2023

**General Information:**

6 samples were analyzed for EPA 537.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 537.1 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 922419

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35801941002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 5070159)
  - 11Cl-PF3OUdS
  - Perfluorobutanesulfonic acid
  - Perfluoroheptanoic acid

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: PFAS SAMPLING

Pace Project No.: 35801941

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**Method:** EPA 537.1

**Description:** 537.1 PFAS Compounds, DOD

**Client:** NDARNG - North Dakota Army National Guard - DoD

**Date:** June 16, 2023

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample:** CGTC 230522 DW01      **Lab ID:** 35801941001      Collected: 05/22/23 10:06      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	0.00092U	ug/L	0.00092	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	763051-92-9	
9CI-PF3ONS	0.00055U	ug/L	0.00055	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	756426-58-1	
ADONA	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	919005-14-4	
HFPO-DA	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	13252-13-6	
NEtFOSAA	0.00093U	ug/L	0.00093	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	2991-50-6	
NMeFOSAA	0.00079U	ug/L	0.00079	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	2355-31-9	
Perfluorobutanesulfonic acid	0.00081U	ug/L	0.00081	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	375-73-5	
Perfluorodecanoic acid	0.00076U	ug/L	0.00076	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	335-76-2	
Perfluorohexanoic acid	0.00068U	ug/L	0.00068	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	307-24-4	
Perfluorododecanoic acid	0.00084U	ug/L	0.00084	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	307-55-1	
Perfluoroheptanoic acid	0.00097U	ug/L	0.00097	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	375-85-9	
Perfluorohexanesulfonic acid	0.00086U	ug/L	0.00086	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	355-46-4	
Perfluorononanoic acid	0.00061U	ug/L	0.00061	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	375-95-1	
Perfluorooctanesulfonic acid	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	1763-23-1	
Perfluorooctanoic acid	0.00059U	ug/L	0.00059	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	335-67-1	
Perfluorotetradecanoic acid	0.00086U	ug/L	0.00086	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	376-06-7	
Perfluorotridecanoic acid	0.00084U	ug/L	0.00084	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	72629-94-8	
Perfluoroundecanoic acid	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:29	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	98	%		70-130		1	06/01/23 09:55	06/03/23 18:29		
13C2-PFHxA (S)	97	%		70-130		1	06/01/23 09:55	06/03/23 18:29		
NEtFOSAA-d5 (S)	111	%		70-130		1	06/01/23 09:55	06/03/23 18:29		
HFPO-DAS (S)	97	%		70-130		1	06/01/23 09:55	06/03/23 18:29		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample:** CGTC 230522 DW02      **Lab ID:** 35801941002      Collected: 05/22/23 10:05      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	0.00088U	ug/L	0.00088	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	763051-92-9	M1
9CI-PF3ONS	0.00053U	ug/L	0.00053	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	756426-58-1	
ADONA	0.00069U	ug/L	0.00069	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	919005-14-4	
HFPO-DA	0.00070U	ug/L	0.00070	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	13252-13-6	
NEtFOSAA	0.00089U	ug/L	0.00089	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	2991-50-6	
NMeFOSAA	0.00076U	ug/L	0.00076	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	2355-31-9	
Perfluorobutanesulfonic acid	0.0013J	ug/L	0.00078	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	375-73-5	M1
Perfluorodecanoic acid	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	335-76-2	
Perfluorohexanoic acid	0.00065U	ug/L	0.00065	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	307-24-4	
Perfluorododecanoic acid	0.00081U	ug/L	0.00081	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	307-55-1	
Perfluoroheptanoic acid	0.00093U	ug/L	0.00093	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	375-85-9	M1
Perfluorohexanesulfonic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	355-46-4	
Perfluorononanoic acid	0.00059U	ug/L	0.00059	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	375-95-1	
Perfluorooctanesulfonic acid	0.00070U	ug/L	0.00070	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	1763-23-1	
Perfluorooctanoic acid	0.00057U	ug/L	0.00057	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	335-67-1	
Perfluorotetradecanoic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	376-06-7	
Perfluorotridecanoic acid	0.00081U	ug/L	0.00081	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	72629-94-8	
Perfluoroundecanoic acid	0.00070U	ug/L	0.00070	0.0019	0.0019	1	06/01/23 09:55	06/03/23 18:45	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	95	%		70-130		1	06/01/23 09:55	06/03/23 18:45		
13C2-PFHxA (S)	95	%		70-130		1	06/01/23 09:55	06/03/23 18:45		
NEtFOSAA-d5 (S)	85	%		70-130		1	06/01/23 09:55	06/03/23 18:45		
HFPO-DAS (S)	98	%		70-130		1	06/01/23 09:55	06/03/23 18:45		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample:** CGTC 230522 DW03      **Lab ID:** 35801941003      Collected: 05/22/23 10:25      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	0.00090U	ug/L	0.00090	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	763051-92-9	
9CI-PF3ONS	0.00054U	ug/L	0.00054	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	756426-58-1	
ADONA	0.00070U	ug/L	0.00070	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	919005-14-4	
HFPO-DA	0.00071U	ug/L	0.00071	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	13252-13-6	
NEtFOSAA	0.00091U	ug/L	0.00091	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	2991-50-6	
NMeFOSAA	0.00078U	ug/L	0.00078	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	2355-31-9	
Perfluorobutanesulfonic acid	0.00080U	ug/L	0.00080	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	375-73-5	
Perfluorodecanoic acid	0.00074U	ug/L	0.00074	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	335-76-2	
Perfluorohexanoic acid	0.00067U	ug/L	0.00067	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	307-24-4	
Perfluorododecanoic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	307-55-1	
Perfluoroheptanoic acid	0.00095U	ug/L	0.00095	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	375-85-9	
Perfluorohexanesulfonic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	355-46-4	
Perfluorononanoic acid	0.00060U	ug/L	0.00060	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	375-95-1	
Perfluorooctanesulfonic acid	0.00071U	ug/L	0.00071	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	1763-23-1	
Perfluorooctanoic acid	0.00058U	ug/L	0.00058	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	335-67-1	
Perfluorotetradecanoic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	376-06-7	
Perfluorotridecanoic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	72629-94-8	
Perfluoroundecanoic acid	0.00071U	ug/L	0.00071	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:17	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	95	%		70-130		1	06/01/23 09:55	06/03/23 19:17		
13C2-PFHxA (S)	94	%		70-130		1	06/01/23 09:55	06/03/23 19:17		
NEtFOSAA-d5 (S)	85	%		70-130		1	06/01/23 09:55	06/03/23 19:17		
HFPO-DAS (S)	96	%		70-130		1	06/01/23 09:55	06/03/23 19:17		

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## ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample:** CGTC 230522 DW04      **Lab ID:** 35801941004      Collected: 05/22/23 10:25      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	0.00092U	ug/L	0.00092	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	763051-92-9	
9CI-PF3ONS	0.00055U	ug/L	0.00055	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	756426-58-1	
ADONA	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	919005-14-4	
HFPO-DA	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	13252-13-6	
NEtFOSAA	0.00093U	ug/L	0.00093	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	2991-50-6	
NMeFOSAA	0.00080U	ug/L	0.00080	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	2355-31-9	
Perfluorobutanesulfonic acid	0.0012J	ug/L	0.00082	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	375-73-5	
Perfluorodecanoic acid	0.00076U	ug/L	0.00076	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	335-76-2	
Perfluorohexanoic acid	0.00068U	ug/L	0.00068	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	307-24-4	
Perfluorododecanoic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	307-55-1	
Perfluoroheptanoic acid	0.00097U	ug/L	0.00097	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	375-85-9	
Perfluorohexanesulfonic acid	0.00087U	ug/L	0.00087	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	355-46-4	
Perfluorononanoic acid	0.00061U	ug/L	0.00061	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	375-95-1	
Perfluorooctanesulfonic acid	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	1763-23-1	
Perfluorooctanoic acid	0.00059U	ug/L	0.00059	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	335-67-1	
Perfluorotetradecanoic acid	0.00087U	ug/L	0.00087	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	376-06-7	
Perfluorotridecanoic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	72629-94-8	
Perfluoroundecanoic acid	0.00073U	ug/L	0.00073	0.0019	0.0019	1	06/01/23 09:55	06/03/23 19:32	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	93	%		70-130		1	06/01/23 09:55	06/03/23 19:32		
13C2-PFHxA (S)	95	%		70-130		1	06/01/23 09:55	06/03/23 19:32		
NEtFOSAA-d5 (S)	84	%		70-130		1	06/01/23 09:55	06/03/23 19:32		
HFPO-DAS (S)	96	%		70-130		1	06/01/23 09:55	06/03/23 19:32		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample: GTA 230522 DW01**      **Lab ID: 35801941005**      Collected: 05/22/23 15:06      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1										
Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	<b>0.00097U</b>	ug/L	0.00097	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	763051-92-9	
9CI-PF3ONS	<b>0.00058U</b>	ug/L	0.00058	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	756426-58-1	
ADONA	<b>0.00075U</b>	ug/L	0.00075	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	919005-14-4	
HFPO-DA	<b>0.00076U</b>	ug/L	0.00076	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	13252-13-6	
NEtFOSAA	<b>0.00098U</b>	ug/L	0.00098	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	2991-50-6	
NMeFOSAA	<b>0.00084U</b>	ug/L	0.00084	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	2355-31-9	
Perfluorobutanesulfonic acid	<b>0.00086U</b>	ug/L	0.00086	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	375-73-5	
Perfluorodecanoic acid	<b>0.00080U</b>	ug/L	0.00080	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	335-76-2	
Perfluorohexanoic acid	<b>0.00071U</b>	ug/L	0.00071	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	307-24-4	
Perfluorododecanoic acid	<b>0.00089U</b>	ug/L	0.00089	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	307-55-1	
Perfluoroheptanoic acid	<b>0.0010U</b>	ug/L	0.0010	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	375-85-9	
Perfluorohexanesulfonic acid	<b>0.00091U</b>	ug/L	0.00091	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	355-46-4	
Perfluorononanoic acid	<b>0.00064U</b>	ug/L	0.00064	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	375-95-1	
Perfluorooctanesulfonic acid	<b>0.00076U</b>	ug/L	0.00076	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	1763-23-1	
Perfluorooctanoic acid	<b>0.00062U</b>	ug/L	0.00062	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	335-67-1	
Perfluorotetradecanoic acid	<b>0.00091U</b>	ug/L	0.00091	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	376-06-7	
Perfluorotridecanoic acid	<b>0.00089U</b>	ug/L	0.00089	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	72629-94-8	
Perfluoroundecanoic acid	<b>0.00076U</b>	ug/L	0.00076	0.0020	0.0020	1	06/01/23 09:55	06/03/23 19:48	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	94	%		70-130		1	06/01/23 09:55	06/03/23 19:48		
13C2-PFHxA (S)	94	%		70-130		1	06/01/23 09:55	06/03/23 19:48		
NEtFOSAA-d5 (S)	85	%		70-130		1	06/01/23 09:55	06/03/23 19:48		
HFPO-DAS (S)	93	%		70-130		1	06/01/23 09:55	06/03/23 19:48		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: PFAS SAMPLING

Pace Project No.: 35801941

**Sample:** GTA 230522 DW02      **Lab ID:** 35801941006      Collected: 05/22/23 15:08      Received: 05/24/23 10:25      Matrix: Drinking Water

Parameters	Results	Units	DL	LOD	LOQ	DF	Prepared	Analyzed	CAS No.	Qual
<b>537.1 PFAS Compounds, DOD</b>										
Analytical Method: EPA 537.1    Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach										
11CI-PF3OUdS	0.00091U	ug/L	0.00091	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	763051-92-9	
9CI-PF3ONS	0.00055U	ug/L	0.00055	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	756426-58-1	
ADONA	0.00071U	ug/L	0.00071	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	919005-14-4	
HFPO-DA	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	13252-13-6	
NEtFOSAA	0.00092U	ug/L	0.00092	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	2991-50-6	
NMeFOSAA	0.00079U	ug/L	0.00079	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	2355-31-9	
Perfluorobutanesulfonic acid	0.00086J	ug/L	0.00081	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	375-73-5	
Perfluorodecanoic acid	0.00075U	ug/L	0.00075	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	335-76-2	
Perfluorohexanoic acid	0.00067U	ug/L	0.00067	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	307-24-4	
Perfluorododecanoic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	307-55-1	
Perfluoroheptanoic acid	0.00096U	ug/L	0.00096	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	375-85-9	
Perfluorohexanesulfonic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	355-46-4	
Perfluorononanoic acid	0.00060U	ug/L	0.00060	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	375-95-1	
Perfluorooctanesulfonic acid	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	1763-23-1	
Perfluorooctanoic acid	0.00058U	ug/L	0.00058	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	335-67-1	
Perfluorotetradecanoic acid	0.00085U	ug/L	0.00085	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	376-06-7	
Perfluorotridecanoic acid	0.00083U	ug/L	0.00083	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	72629-94-8	
Perfluoroundecanoic acid	0.00072U	ug/L	0.00072	0.0019	0.0019	1	06/01/23 09:55	06/03/23 20:04	2058-94-8	
<b>Surrogates</b>										
13C2-PFDA (S)	95	%		70-130		1	06/01/23 09:55	06/03/23 20:04		
13C2-PFHxA (S)	99	%		70-130		1	06/01/23 09:55	06/03/23 20:04		
NEtFOSAA-d5 (S)	87	%		70-130		1	06/01/23 09:55	06/03/23 20:04		
HFPO-DAS (S)	99	%		70-130		1	06/01/23 09:55	06/03/23 20:04		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: PFAS SAMPLING

Pace Project No.: 35801941

QC Batch:	922419	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, DOD
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35801941001, 35801941002, 35801941003, 35801941004, 35801941005, 35801941006

METHOD BLANK: 5070107 Matrix: Water  
Associated Lab Samples: 35801941001, 35801941002, 35801941003, 35801941004, 35801941005, 35801941006

Parameter	Units	Blank Result	DL	LOD	LOQ	Analyzed	Qualifiers
11CI-PF3OUdS	ug/L	0.00095U	0.00095	0.0020	0.0020	06/03/23 17:41	
9CI-PF3ONS	ug/L	0.00057U	0.00057	0.0020	0.0020	06/03/23 17:41	
ADONA	ug/L	0.00074U	0.00074	0.0020	0.0020	06/03/23 17:41	
HFPO-DA	ug/L	0.00075U	0.00075	0.0020	0.0020	06/03/23 17:41	
NEtFOSAA	ug/L	0.00096U	0.00096	0.0020	0.0020	06/03/23 17:41	
NMeFOSAA	ug/L	0.00082U	0.00082	0.0020	0.0020	06/03/23 17:41	
Perfluorobutanesulfonic acid	ug/L	0.00084U	0.00084	0.0020	0.0020	06/03/23 17:41	
Perfluorodecanoic acid	ug/L	0.00078U	0.00078	0.0020	0.0020	06/03/23 17:41	
Perfluorododecanoic acid	ug/L	0.00087U	0.00087	0.0020	0.0020	06/03/23 17:41	
Perfluoroheptanoic acid	ug/L	0.0010U	0.0010	0.0020	0.0020	06/03/23 17:41	
Perfluorohexanesulfonic acid	ug/L	0.00089U	0.00089	0.0020	0.0020	06/03/23 17:41	
Perfluorohexanoic acid	ug/L	0.00070U	0.00070	0.0020	0.0020	06/03/23 17:41	
Perfluorononanoic acid	ug/L	0.00063U	0.00063	0.0020	0.0020	06/03/23 17:41	
Perfluorooctanesulfonic acid	ug/L	0.00075U	0.00075	0.0020	0.0020	06/03/23 17:41	
Perfluorooctanoic acid	ug/L	0.00061U	0.00061	0.0020	0.0020	06/03/23 17:41	
Perfluorotetradecanoic acid	ug/L	0.00089U	0.00089	0.0020	0.0020	06/03/23 17:41	
Perfluorotridecanoic acid	ug/L	0.00087U	0.00087	0.0020	0.0020	06/03/23 17:41	
Perfluoroundecanoic acid	ug/L	0.00075U	0.00075	0.0020	0.0020	06/03/23 17:41	
13C2-PFDA (S)	%	87		70-130		06/03/23 17:41	
13C2-PFHxA (S)	%	88		70-130		06/03/23 17:41	
HFPO-DAS (S)	%	88		70-130		06/03/23 17:41	
NEtFOSAA-d5 (S)	%	80		70-130		06/03/23 17:41	

LABORATORY CONTROL SAMPLE: 5070108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.15	0.14	93	50-150	
9CI-PF3ONS	ug/L	0.15	0.15	99	50-150	
ADONA	ug/L	0.15	0.15	102	50-150	
HFPO-DA	ug/L	0.16	0.15	95	50-150	
NEtFOSAA	ug/L	0.16	0.16	101	50-150	
NMeFOSAA	ug/L	0.16	0.17	108	50-150	
Perfluorobutanesulfonic acid	ug/L	0.14	0.14	101	50-150	
Perfluorodecanoic acid	ug/L	0.16	0.17	103	50-150	
Perfluorododecanoic acid	ug/L	0.16	0.15	96	50-150	
Perfluoroheptanoic acid	ug/L	0.16	0.15	97	50-150	
Perfluorohexanesulfonic acid	ug/L	0.15	0.15	100	50-150	
Perfluorohexanoic acid	ug/L	0.16	0.16	103	50-150	
Perfluorononanoic acid	ug/L	0.16	0.16	103	50-150	

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### QUALITY CONTROL DATA

Project: PFAS SAMPLING  
Pace Project No.: 35801941

LABORATORY CONTROL SAMPLE: 5070108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorooctanesulfonic acid	ug/L	0.15	0.14	96	50-150	
Perfluorooctanoic acid	ug/L	0.16	0.17	105	50-150	
Perfluorotetradecanoic acid	ug/L	0.16	0.16	99	50-150	
Perfluorotridecanoic acid	ug/L	0.16	0.15	96	50-150	
Perfluoroundecanoic acid	ug/L	0.16	0.16	99	50-150	
13C2-PFDA (S)	%			93	70-130	
13C2-PFHxA (S)	%			94	70-130	
HFPO-DAS (S)	%			97	70-130	
NETFOSAA-d5 (S)	%			84	70-130	

LABORATORY CONTROL SAMPLE: 5070109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.0019	0.0014J	76	50-150	
9CI-PF3ONS	ug/L	0.0019	0.0015J	82	50-150	
ADONA	ug/L	0.0019	0.0016J	83	50-150	
HFPO-DA	ug/L	0.002	0.0016J	79	50-150	
NETFOSAA	ug/L	0.002	0.0021	105	50-150	
NMeFOSAA	ug/L	0.002	0.0020	101	50-150	
Perfluorobutanesulfonic acid	ug/L	0.0018	0.0019J	110	50-150	
Perfluorodecanoic acid	ug/L	0.002	0.0017J	87	50-150	
Perfluorododecanoic acid	ug/L	0.002	0.0016J	80	50-150	
Perfluoroheptanoic acid	ug/L	0.002	0.0016J	80	50-150	
Perfluorohexanesulfonic acid	ug/L	0.0018	0.0016J	87	50-150	
Perfluorohexanoic acid	ug/L	0.002	0.0018J	89	50-150	
Perfluorononanoic acid	ug/L	0.002	0.0017J	87	50-150	
Perfluorooctanesulfonic acid	ug/L	0.0019	0.0016J	89	50-150	
Perfluorooctanoic acid	ug/L	0.002	0.0017J	87	50-150	
Perfluorotetradecanoic acid	ug/L	0.002	0.0016J	82	50-150	
Perfluorotridecanoic acid	ug/L	0.002	0.0016J	79	50-150	
Perfluoroundecanoic acid	ug/L	0.002	0.0017J	84	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			97	70-130	
HFPO-DAS (S)	%			98	70-130	
NETFOSAA-d5 (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 5070159

Parameter	Units	35801941002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.00088U	0.0018	0.0012J	67	70-130	M1
9CI-PF3ONS	ug/L	0.00053U	0.0018	0.0014J	76	70-130	
ADONA	ug/L	0.00069U	0.0018	0.0014J	78	70-130	
HFPO-DA	ug/L	0.00070U	0.0019	0.0014J	75	70-130	
NETFOSAA	ug/L	0.00089U	0.0019	0.0017J	86	70-130	

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### QUALITY CONTROL DATA

Project: PFAS SAMPLING

Pace Project No.: 35801941

MATRIX SPIKE SAMPLE: 5070159		35801941002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
NMeFOSAA	ug/L	0.00076U	0.0019	0.0017J	86	70-130	
Perfluorobutanesulfonic acid	ug/L	0.0013J	0.0017	0.0012J	-9	70-130	M1
Perfluorodecanoic acid	ug/L	0.00072U	0.0019	0.0015J	79	70-130	
Perfluorododecanoic acid	ug/L	0.00081U	0.0019	0.0014J	73	70-130	
Perfluoroheptanoic acid	ug/L	0.00093U	0.0019	0.0014J	69	70-130	M1
Perfluorohexanesulfonic acid	ug/L	0.00083U	0.0017	0.0015J	77	70-130	
Perfluorohexanoic acid	ug/L	0.00065U	0.0019	0.0017J	87	70-130	
Perfluorononanoic acid	ug/L	0.00059U	0.0019	0.0015J	79	70-130	
Perfluorooctanesulfonic acid	ug/L	0.00070U	0.0018	0.0014J	76	70-130	
Perfluorooctanoic acid	ug/L	0.00057U	0.0019	0.0017J	85	70-130	
Perfluorotetradecanoic acid	ug/L	0.00083U	0.0019	0.0014J	72	70-130	
Perfluorotridecanoic acid	ug/L	0.00081U	0.0019	0.0014J	75	70-130	
Perfluoroundecanoic acid	ug/L	0.00070U	0.0019	0.0015J	78	70-130	
13C2-PFDA (S)	%				92	70-130	
13C2-PFHxA (S)	%				94	70-130	
HFPO-DAS (S)	%				92	70-130	
NEtFOSAA-d5 (S)	%				86	70-130	

SAMPLE DUPLICATE: 5070160

Parameter	Units	35801941006	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ug/L	0.00091U	0.00089U		30	
9CI-PF3ONS	ug/L	0.00055U	0.00053U		30	
ADONA	ug/L	0.00071U	0.00069U		30	
HFPO-DA	ug/L	0.00072U	0.00070U		30	
NEtFOSAA	ug/L	0.00092U	0.00090U		30	
NMeFOSAA	ug/L	0.00079U	0.00077U		30	
Perfluorobutanesulfonic acid	ug/L	0.00086J	0.00078U		30	
Perfluorodecanoic acid	ug/L	0.00075U	0.00073U		30	
Perfluorododecanoic acid	ug/L	0.00083U	0.00081U		30	
Perfluoroheptanoic acid	ug/L	0.00096U	0.00093U		30	
Perfluorohexanesulfonic acid	ug/L	0.00085U	0.00083U		30	
Perfluorohexanoic acid	ug/L	0.00067U	0.00065U		30	
Perfluorononanoic acid	ug/L	0.00060U	0.00059U		30	
Perfluorooctanesulfonic acid	ug/L	0.00072U	0.00070U		30	
Perfluorooctanoic acid	ug/L	0.00058U	0.00057U		30	
Perfluorotetradecanoic acid	ug/L	0.00085U	0.00083U		30	
Perfluorotridecanoic acid	ug/L	0.00083U	0.00081U		30	
Perfluoroundecanoic acid	ug/L	0.00072U	0.00070U		30	
13C2-PFDA (S)	%	95	93			
13C2-PFHxA (S)	%	99	96			
HFPO-DAS (S)	%	99	98			
NEtFOSAA-d5 (S)	%	87	83			

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## QUALIFIERS

Project: PFAS SAMPLING

Pace Project No.: 35801941

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS SAMPLING

Pace Project No.: 35801941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35801941001	CGTC 230522 DW01	EPA 537.1	922419	EPA 537.1	923058
35801941002	CGTC 230522 DW02	EPA 537.1	922419	EPA 537.1	923058
35801941003	CGTC 230522 DW03	EPA 537.1	922419	EPA 537.1	923058
35801941004	CGTC 230522 DW04	EPA 537.1	922419	EPA 537.1	923058
35801941005	GTA 230522 DW01	EPA 537.1	922419	EPA 537.1	923058
35801941006	GTA 230522 DW02	EPA 537.1	922419	EPA 537.1	923058

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**WO#: 35801941**

Due Date: 06/15/23

PM: LN  
 CLIENT: NDARNG

**Project #**  
**Project Manager:**  
**Client:**

Courier:  FedEx  UPS  USPS  Client  Pace  Other

Tracking # 6420 8599 0748

Custody Seal:  Yes  No Seal intact:  Yes  No  N/A Ice:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

		Comments
Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Chain of Custody Completed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished & Sampler Signature	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Labels match COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Samples GTC230522DW01 and GTC230522DW02 collection times are flipped on containers</u>
Samples received ≤48 hr from collection	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If no, were samples kept ≤6°C after 48 hrs of collection?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Person contacted for verification _____		

**Temperature Verification**

Initials: EASL

Date: 5/24/23

Time: 1445

IR Gun ID: T-414

CF (°C): -0.1

	Observed (°C)	Corrected (°C)	Comments
EPA 533	<u>-</u>	<u>-</u>	
EPA 537.1	<u>4.6</u>	<u>4.5</u>	

**Preservation Verification**

pH strip: 1003121

pH meter: SR-3

Free Cl Strip/DPD: A3081

Cl Meter: \_\_\_\_\_

200.7 Lab Preserved: Nitric Acid: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Initials: \_\_\_\_\_

Sample/Container ID	pH				Free Chlorine**		Comments
	533* (pH 6.0-8.0)	537.1 (pH 6.0-8.0)	200.7 (pH <2)	200.7 Lab Preserved	533	537.1	
<u>CGTC230522DW01 1/2</u>	<u>-</u>	<u>7.43</u>			<u>-</u>	<u>ND</u>	
<u>" 2/2</u>	<u>-</u>	<u>7.57</u>			<u>-</u>	<u>ND</u>	
<u>CGTC230522DW02 1/2</u>	<u>-</u>	<u>7.35</u>			<u>-</u>	<u>ND</u>	
<u>" 2/2</u>	<u>-</u>	<u>7.50</u>			<u>-</u>	<u>ND</u>	
<u>CGTC230522DW03 1/2</u>	<u>-</u>	<u>7.48</u>			<u>-</u>	<u>ND</u>	
<u>" 2/2</u>	<u>-</u>	<u>7.52</u>			<u>-</u>	<u>ND</u>	
<u>CGTC230522DW04 1/2</u>	<u>-</u>	<u>7.45</u>			<u>-</u>	<u>ND</u>	
<u>" 2/2</u>	<u>-</u>	<u>7.56</u>			<u>-</u>	<u>ND</u>	

\*533 pH may be adjusted at the bench prior to extra \*\* ND = <0.1 mg/L

