



February 6, 2020

American Mobile Home Plaza  
 4400 Broad Street Extension  
 Sumter, SC 29154

Dear Resident:

South Carolina Department of Health and Environmental Control (SC DHEC) recently conducted an inspection and water sampling on the six water wells in American Mobile Home Plaza

In this packet you will find:

1. **Sanitary Survey Inspection Report:** A Sanitary Survey is an onsite review and inspection of an entire water system, including the water source, facilities, equipment, operation and maintenance. The overall rating for this inspection was **Unsatisfactory**.
2. **Sampling Results:** The Department conducted both compliance sampling and non-compliance sampling. Compliance sampling results are compared to Maximum Contaminant Levels (MCLs), which are standards set by U.S. EPA for drinking water. Non-compliance sampling results do not have a standard and are not regulated by U.S. EPA or SC DHEC.

**All compliance sampling results for American Mobile Home Plaza are in compliance with MCLs and meet all regulated drinking water standards.**

**Sampling for PFOA and PFOS, which is non-compliance sampling, and thus not regulated, was found to be above the EPA's Lifetime Health Advisory (LHA) of 70 parts per trillion (ppt).** When both PFOA and PFOS are found in drinking water, the combined concentrations of PFOA and PFOS should be compared to the 70 ppt LHA. **Please Note: Advisories are non-enforceable and non-regulatory.**

American Mobile Home Plaza PFOA and PFOS Results	January 16, 2020	January 28, 2020
Well 1 - PFOA	65 ppt	67 ppt
Well 1 - PFOS	170 ppt**	170 ppt**
Well 2 - PFOA	59 ppt	67 ppt
Well 2 - PFOS	180 ppt**	210 ppt**
Well 3 - PFOA	45 ppt	52 ppt
Well 3 - PFOS	160 ppt**	180 ppt**
Well 4 - PFOA	34 ppt	41 ppt
Well 4 - PFOS	120 ppt**	140 ppt**
Well 5 - PFOA	57 ppt	56 ppt
Well 5 - PFOS	190 ppt**	210 ppt**

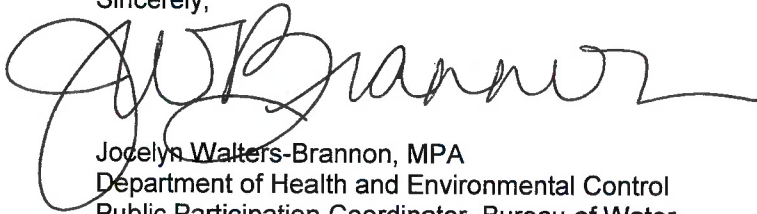
American Mobile Home Plaza PFOA and PFOS Results	January 16, 2020	January 28, 2020
Well 6 - PFOA	29 ppt	30 ppt
Well 6 - PFOS	110 ppt**	130 ppt**

\*\* Indicates sample result above EPA LHA

- 3. Info Sheet on Per – and Polyfluoroalkyl Substance (PFAS):** This information is included for you so you can learn more about these substances as you make decisions about your drinking water.

If you have any questions about the information included here, please contact myself (contact info below) or the SC DHEC Regional Office in Sumter at (803) 778-6548. If you have questions for Shaw Air Force Base please contact Ben Roope at (843) 963-4020 or at [benjamin.roope.2@us.af.mil](mailto:benjamin.roope.2@us.af.mil)

Sincerely,



Jocelyn Waters-Brannon, MPA  
Department of Health and Environmental Control  
Public Participation Coordinator, Bureau of Water  
2600 Bull Street  
Columbia, South Carolina 29201  
Desk: 803.898.4096  
[walterjy@dhec.sc.gov](mailto:walterjy@dhec.sc.gov)



February 4, 2020

Mr. Tony Weimer  
131 Derby Dr.  
West Columbia, SC 29170

Re: Sanitary Survey  
American MHP (DHEC#4360012)

Dear Mr. Weimer:

The sanitary survey that was conducted on the American MHP water system on January 16-17, 2020 is enclosed. Thank you for your assistance and cooperation during the inspection.

The American Mobile Home Park is a Community (Type C) water system. There are a total of 70 connections that provide water to a population of 173 people. Water is provided by six wells. Well One, located near Lot #1 is a 2-inch diameter, 60 foot deep well with a 1 horsepower jet pump. Well Two, located near Lot #26, is a 2-inch diameter, 60 foot deep well with a 1 horsepower jet pump. Well Three, located near Lot #76, is a 2-inch diameter, 60 foot deep well with a 1/2 horsepower jet pump. Well Four, located near Lot #38, is a 2-inch diameter, 60 foot deep well with a 3/4 horsepower jet pump. Well Five, located near Lot #63, is a 2-inch diameter, 60 foot deep well with a 3/4 horsepower jet pump. Well Six, located near Lot #67, is a 2-inch diameter, 60 foot deep well with a 3/4 horsepower jet pump. There are 6 bladder tanks that provide approximately 400 gallons of storage. No treatment is provided.

When evaluated according to the State Primary Drinking Water Regulations (SPDWR), the American Mobile Home Park system is rated "Unsatisfactory". A follow up inspection will be conducted in March 2020, to check on progress in the following areas:

1. Item #1 Protection from Contamination – "Unsatisfactory"  
Well casings of Well #2, Well #3, Well #4, Well #5 and Well #6 did not have proper sanitary seals. All of the casings of the wells must be sealed. All openings in the seal must be properly protected (caulked) to prevent contaminants from entering the wells.
2. Item #3 Security – "Needs Improvement"  
Well #1 needs to be secured to prevent tampering or vandalism. This may be accomplished by placing a lockable house or cover over the well.
3. Item #4 Wellhead Piping – "Needs Improvement"  
The sample taps at each well must be pointed downward. Each sample tap must be easily accessible and allow sample collection in different types and sizes of containers. All electrical wiring must be enclosed in conduit.
4. Item #35 facility Maintenance – "Needs Improvement"  
Clear access to all wells and storage tanks must be provided. Areas around the wells and storage tanks must be free of clutter. All insulation around the wells needs to be replaced.

Please e-mail [brownpr@dhec.sc.gov](mailto:brownpr@dhec.sc.gov) or call (843)661-4825 if you have any questions or need assistance.

Sincerely,

A handwritten signature in blue ink that reads "Paula R. Brown". The signature is written in a cursive style.

Paula R. Brown  
Drinking Water  
Florence EA

Cc: Leigh Plummer, Director, Pee Dee EA, Florence & Sumter  
Keith Lane, Office Manager, Sumter EA  
Bureau of Water  
File



# Info Sheet

South Carolina Department of Health and Environmental Control • [www.scdhec.gov](http://www.scdhec.gov)

## Per- and Polyfluoroalkyl Substances (PFAS)

### What are per- and polyfluoroalkyl substances (PFAS)?

Per- and polyfluoroalkyl substances (PFAS) are a large group of man-made chemicals that have been used worldwide in consumer products and in some industrial applications. They've been in use in the United States since the 1940s. PFAS chemicals are used to make products that resist heat, oil, stains, grease and water. The two most commonly produced and most studied PFAS chemicals are **perfluorooctanoic acid (PFOA)** and **perfluorooctane sulfonic acid (PFOS)**.

### PFAS chemicals:

- Do not occur naturally yet are widespread in the environment because of their broad uses
- Are found in people, wildlife and fish world-wide
- Are stable and do not break down easily in the environment (they are persistent)
- Can build up in biological tissues (people, wildlife, fish) over time if exposure continues (they bioaccumulate)

### Are PFAS chemicals harmful?

Human health effects from PFAS exposure are not completely understood. Studies have shown that long-term (lifetime) exposure to some PFAS chemicals may affect developmental stages (growth, learning, behavior) of infants and older children, lower a woman's chance of getting pregnant, disrupt the body's hormones, increase cholesterol, and may increase cancer risk. In 2016, the U.S. Environmental Protection Agency (EPA) issued a Lifetime Health Advisory for PFOA and PFOS in drinking water.

### What is a Lifetime Health Advisory?

A Lifetime Health Advisory (LHA) is just that - an advisory. The LHA was established based on epidemiological studies. These studies indicate that exposure to PFOA and PFOS (the two most common PFAS chemicals) over certain levels may result in adverse health effects. The LHA for PFOA and/or PFOS is 70 parts per trillion (ppt). This LHA is protective of everyone, including

### How can I be exposed to PFAS?

The most common exposure route is from swallowing food or water that contains PFAS. PFAS have been commonly used in the manufacturing of:

- nonstick cookware
- food packaging (ex: microwave popcorn bags, fast food wrappers, sliced cheese wrappers, pizza boxes)
- stain-resistant carpets and fabrics and water-resistant clothing
- paints, varnishes and sealants
- cosmetics
- dental floss
- fire-fighting foams

Exposure to PFAS chemicals via touching, contact with the skin, and inhalation are lesser human health concerns at this time.



pregnant and nursing women, young children and the elderly. Currently, the EPA has not set health advisory levels for the other PFAS chemicals.

A LHA is not a primary drinking water standard (also called a Maximum Contaminant Level, or MCL) under the Safe Drinking Water Act. **A LHA is not an enforceable regulatory standard.** Currently, EPA is evaluating whether an enforceable MCL for PFOA, PFOS or any other PFAS chemical should be developed.

### How do PFAS chemicals get into drinking water?

PFAS chemicals can get into drinking water when products containing them are used or spilled onto the ground or into lakes and rivers. PFAS move easily through the ground, getting into groundwater that is used for some water supplies or for private drinking water wells. When spilled into lakes or rivers used as sources of drinking water, they can get into drinking water supplies. PFAS in the air can also end up in rivers and lakes used for drinking water.

### What is DHEC doing about PFAS chemicals?

DHEC has developed a strategy for addressing PFAS chemicals in drinking water. DHEC's PFAS in Drinking Water strategy focuses on community water systems and on private wells that are located in areas that are potentially impacted by PFAS contamination. Sampling and analyses will begin in early 2020.

DHEC will also develop a strategy regarding PFAS in ambient surface waters (lakes, rivers, streams), including the assessment of fish tissue quality as a protective public health measure for fish consumption by our residents. The ambient water strategy is expected to be completed by mid-2020.

### How can I reduce my exposure to PFAS?

Ingestion (swallowing) of food or water containing PFAS is the most common route of exposure. Because PFAS are present in so many different consumer products and throughout our environment, exposure to PFAS cannot be eliminated. However, some steps can be taken to reduce your exposure:

- Read consumer product labels and avoid using products with PFAS.
- Use an alternative or treated water source for drinking, food preparation, brushing teeth or preparing infant formula if your drinking water contains more than 70 ppt of total PFOA and PFOS.
  - Activated carbon filtration or reverse osmosis membranes effectively reduce PFOA and PFAS in drinking water.

Water with a PFAS level greater than the LHA can be used for bathing, showering, washing clothes and cleaning.

**For more information, visit DHEC's webpage at [www.scdhec.gov/PFAS](http://www.scdhec.gov/PFAS) or other resources below.**

#### U.S. Environmental Protection Agency

- Basic Information about PFAS: [www.epa.gov/pfas](http://www.epa.gov/pfas)
- Drinking Water PFOA and PFAS Lifetime Health Advisory: [www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos](http://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos)
- Technical Fact Sheet – PFOS and PFOA: [www.epa.gov/sites/production/files/2017-12/documents/ffrrofactsheet\\_contaminants\\_pfos\\_pfoa\\_11-20-17\\_508\\_0.pdf](http://www.epa.gov/sites/production/files/2017-12/documents/ffrrofactsheet_contaminants_pfos_pfoa_11-20-17_508_0.pdf)

#### U.S. Agency for Toxic Substances and Disease Registry

- Frequently Asked Questions: [www.atsdr.cdc.gov/pfas/](http://www.atsdr.cdc.gov/pfas/)

# **American Mobile Home Plaza (MHP)**

**Public Water System**

**SC4360012**

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## **Six Active Groundwater Wells Service the MHP**

Well 1 (G43196) – Located on Lot 1

Well 2 (G43197) – Located on Lot 26

Well 3 (G43198) – Located on Lot 76

Well 4 (G43199) – Located on Lot 38

Well 5 (G43200) – Located on Lot 63

Well 6 (G43201) – Located on Lot 67

**Well 1 (G43196) – Located on Lot 1**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43196  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43079  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 16:00

Laboratory Sample Number: AE43079

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	1.4	mg/L	LACHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LACHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report**

**Station Code:** 4360012-G43196  
**Location Description:** AMERICAN MH PLAZA  
**Matrix:** WATER  
  
**Sample Type:** CR  
**Additional Info:**

**Laboratory Sample Number:** AE43080  
**Program Charge:** DWT  
**Collected By:** GARRIS K  
**Date of Collection:** 01/16/2020  
**Time of Collection:** 16:00

Laboratory Sample Number: **AE43080**

Analyte	Result	Units	Method Reference	
<b>Aluminum in Water</b>	Aluminum in Water	<0.050	mg/L EPA 200.7	
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L EPA 200.9	
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L EPA 200.9	
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L EPA 200.7	
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L EPA 550.1	
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L EPA 200.7	
<b>Calcium in Water</b>	Calcium in Water	1.1	mg/L EPA 200.7	
<b>Carbamate Pesticides</b>	Carbofuran	<0.00090	mg/L EPA 531.1	
	Methomyl	<0.00050	mg/L EPA 531.1	
	Aldicarb-sulfoxide	<0.00050	mg/L EPA 531.1	
	Oxamyl	<0.0020	mg/L EPA 531.1	
	3-Hydroxycarbofuran	<0.00050	mg/L EPA 531.1	
	Aldicarb-sulfone	<0.00050	mg/L EPA 531.1	
	Aldicarb	<0.00050	mg/L EPA 531.1	
	Carbaryl	<0.00050	mg/L EPA 531.1	
	<b>Chlorinated Acid Herbicides and Dalapon</b>	PCP	<0.000010	mg/L EPA 515.3
		2,4-D	<0.00010	mg/L EPA 515.3
Picloram		<0.000040	mg/L EPA 515.3	
2,4,5-TP		<0.000040	mg/L EPA 515.3	
Dinoseb		<0.000080	mg/L EPA 515.3	
Dalapon		<0.0010	mg/L EPA 515.3	
Dicamba		<0.000040	mg/L EPA 515.3	
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L EPA 200.7	
<b>Copper in Water</b>	Copper in Water	0.037	mg/L EPA 200.7	
<b>Diquat</b>	Diquat	<0.00088	mg/L EPA 549.2	
<b>Drinking Water Volatile Organics</b>	Benzene	<0.000500	mg/L EPA 524.2	
	Napthalene	<0.000500	mg/L EPA 524.2	
	Bromochloromethane	<0.000500	mg/L EPA 524.2	
	1,1,1,2-Tetrachloroethane	<0.000500	mg/L EPA 524.2	
	1,1,1-Trichloroethane	<0.000500	mg/L EPA 524.2	
	1,1-Dichloropropene	<0.000500	mg/L EPA 524.2	
	Chlorobenzene	<0.000500	mg/L EPA 524.2	
	1,3-Dichloropropane	<0.000500	mg/L EPA 524.2	

**Drinking Water Volatile Organics**

	Carbon tetrachloride	<0.000500	mg/L	EPA 524.2
	1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
	1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
	Trichloroethylene	<0.000500	mg/L	EPA 524.2
	Dibromomethane	<0.000500	mg/L	EPA 524.2
	Ethylbenzene	<0.000500	mg/L	EPA 524.2
	n-Butylbenzene	<0.000500	mg/L	EPA 524.2
	trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	Toluene	<0.000500	mg/L	EPA 524.2
	Tetrachloroethene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	1,3-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	sec-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,2,4-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	tert-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,3,5-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	4-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	n-Propylbenzene	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichloropropane	<0.000500	mg/L	EPA 524.2
	1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	1,1,2,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	m,p-Xylenes	<0.001000	mg/L	EPA 524.2
	cis-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
	1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	p-Isopropyltoluene	<0.000500	mg/L	EPA 524.2
	Isopropylbenzene	<0.000500	mg/L	EPA 524.2
	Styrene	<0.000500	mg/L	EPA 524.2
	o-Xylene	<0.000500	mg/L	EPA 524.2
	Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
	Bromobenzene	<0.000500	mg/L	EPA 524.2
	Vinyl Chloride	<0.000500	mg/L	EPA 524.2
	2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	Chloromethane	<0.000500	mg/L	EPA 524.2
	Bromomethane	<0.000500	mg/L	EPA 524.2
	Chloroethane	<0.000500	mg/L	EPA 524.2
	Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
	Methylene chloride	<0.000500	mg/L	EPA 524.2
	trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethane	<0.000500	mg/L	EPA 524.2
	Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>	EDB	<0.000020	mg/L	EPA 504.1
	DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>	Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>	Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>	Hardness	7.7	mg/L	EPA 200.7
<b>Iron in Water</b>	Iron in Water	<0.020	mg/L	EPA 200.7
<b>Lead in drinking water</b>	Lead in drinking water	0.0029	mg/L	EPA 200.9
<b>Magnesium in Water</b>	Magnesium in Water	1.2	mg/L	EPA 200.7
<b>Manganese in Water</b>	Manganese in Water	0.030	mg/L	EPA 200.7
<b>Mercury in Water</b>	Mercury in Water	<0.000020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>	Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>	PCB 1232	<0.00010	mg/L	EPA 508
	PCB 1016	<0.00010	mg/L	EPA 508
	Toxaphene	<0.0010	mg/L	EPA 508
	PCB 1221	<0.00010	mg/L	EPA 508
	PCB 1242	<0.00010	mg/L	EPA 508
	PCB 1248	<0.00010	mg/L	EPA 508
	PCB 1254	<0.00010	mg/L	EPA 508
	PCB 1260	<0.00010	mg/L	EPA 508
<b>Pesticides/Semi-Volatiles</b>	Endrin	<0.00022	mg/L	EPA 525.2
	Technical chlordane	<0.00040	mg/L	EPA 525.2
	Methoxychlor	<0.0080	mg/L	EPA 525.2
	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2
	Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2
	Alachlor	<0.00040	mg/L	EPA 525.2
	Dieldrin	<0.00010	mg/L	EPA 525.2

<b>Pesticides/Semi-Volatiles</b>	Propachlor	<0.00010	mg/L	EPA 525.2	
	Hexachlorobenzene	<0.00020	mg/L	EPA 525.2	
	Simazine	<0.00015	mg/L	EPA 525.2	
	Atrazine	<0.00022	mg/L	EPA 525.2	
	Metribuzin	<0.00020	mg/L	EPA 525.2	
	Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2	
	Heptachlor	<0.000080	mg/L	EPA 525.2	
	Metolachlor	<0.00010	mg/L	EPA 525.2	
	Aldrin	<0.00010	mg/L	EPA 525.2	
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2	
	Butachlor	<0.00010	mg/L	EPA 525.2	
	Lindane	<0.00010	mg/L	EPA 525.2	
	<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
	<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	2.2	mg/L	EPA 200.7	
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9	
<b>Zinc in Water</b>	Zinc in Water	0.025	mg/L	EPA 200.7	

**Sample Comments:** Analytical problem for Cadmium



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43196  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43082  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 16:00

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43082

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	4.6	mg/L of CaCO <sub>3</sub>	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	<5	CU	SM 2120B COLOR
Chloride	Chloride	2.1	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	<5.0	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	26	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	1.6	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	24	mg/L	SM 2540B
Turbidity	Turbidity	<0.5	NTU	EPA 180.1

Sample Comments: NH<sub>3</sub>-W, TP-W and TS are non-regulatory parameters and are for informational purposes only, not for compliance.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43196  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43595  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 11:55

Laboratory Sample Number: AE43595

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9

Sample Comments:



# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-005</b>
Description: <b>G43196 well 1</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1232</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 2216	MMM	01/19/2020 1249	42255
2	537.1	537.1	20	01/21/2020 1521	MMM	01/19/2020 1249	42255

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.42	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>33</b>	<b>J</b>	<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>360</b>		<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.67	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>44</b>		<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>200</b>		<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>8.2</b>		<b>1.7</b>	<b>0.67</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>65</b>		<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.42	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.67	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>170</b>		<b>34</b>	<b>6.7</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Acceptance Limits	Run 2		
	Q	% Recovery		Q	% Recovery	
13C2_PFHxA		83	70-130		99	70-130
13C3-HFPO-DA		100	50-150		103	50-150
13C6_PFDA		106	70-130		104	70-130
d5-EtFOSAA		94	70-130		92	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-005</b>
Description: <b>G43196-1</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1155</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/29/2020 2335	SES	01/29/2020 1113	43206
2	537.1	537.1	20	01/29/2020 2325	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.35	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.44	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>29</b>		<b>1.7</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>330</b>		<b>35</b>	<b>7.0</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.70	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.35	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>49</b>		<b>35</b>	<b>7.0</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>160</b>		<b>35</b>	<b>7.0</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>8.2</b>		<b>1.7</b>	<b>0.70</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>67</b>		<b>35</b>	<b>7.0</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.35	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.70	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>170</b>		<b>35</b>	<b>7.0</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_PFHxA		93		100
13C3-HFPO-DA		92		108
13C6_PFDA		110		121
d5-EtFOSAA		94		93

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**Well 2 (G43197) – Located on Lot 26**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43197  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43083  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 15:30

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43083

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	3.6	mg/L	LACHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LACHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report**

**Station Code:** 4360012-G43197  
**Location Description:** AMERICAN MH PLAZA  
**Matrix:** WATER

**Laboratory Sample Number:** AE43084  
**Program Charge:** DWT  
**Collected By:** GARRIS K  
**Date of Collection:** 01/16/2020  
**Time of Collection:** 15:30

**Sample Type:** CR  
**Additional Info:**

Laboratory Sample Number: AE43084

	Analyte	Result	Units	Method Reference
<b>Aluminum in Water</b>	Aluminum in Water	0.18	mg/L	EPA 200.7
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L	EPA 200.9
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L	EPA 200.9
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L	EPA 200.7
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L	EPA 550.1
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L	EPA 200.7
<b>Calcium in Water</b>	Calcium in Water	2.6	mg/L	EPA 200.7
<b>Carbamate Pesticides</b>	3-Hydroxycarbofuran	<0.00050	mg/L	EPA 531.1
	Aldicarb	<0.00050	mg/L	EPA 531.1
	Methomyl	<0.00050	mg/L	EPA 531.1
	Carbaryl	<0.00050	mg/L	EPA 531.1
	Oxamyl	<0.0020	mg/L	EPA 531.1
	Aldicarb-sulfone	<0.00050	mg/L	EPA 531.1
	Aldicarb-sulfoxide	<0.00050	mg/L	EPA 531.1
	Carbofuran	<0.00090	mg/L	EPA 531.1
<b>Chlorinated Acid Herbicides and Dalapon</b>	Picloram	<0.000040	mg/L	EPA 515.3
	2,4-D	<0.00010	mg/L	EPA 515.3
	2,4,5-TP	<0.000040	mg/L	EPA 515.3
	PCP	<0.000010	mg/L	EPA 515.3
	Dicamba	<0.000040	mg/L	EPA 515.3
	Dalapon	<0.0010	mg/L	EPA 515.3
	Dinoseb	<0.000080	mg/L	EPA 515.3
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L	EPA 200.7
<b>Copper in Water</b>	Copper in Water	<0.010	mg/L	EPA 200.7
<b>Diquat</b>	Diquat	<0.00088	mg/L	EPA 549.2
<b>Drinking Water Volatile Organics</b>	Trichloroethylene	<0.000500	mg/L	EPA 524.2
	Styrene	<0.000500	mg/L	EPA 524.2
	o-Xylene	<0.000500	mg/L	EPA 524.2
	m,p-Xylenes	<0.00100	mg/L	EPA 524.2
	Ethylbenzene	<0.000500	mg/L	EPA 524.2
	1,1,1,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	Chlorobenzene	<0.000500	mg/L	EPA 524.2
	Tetrachloroethene	<0.000500	mg/L	EPA 524.2

<b>Drinking Water Volatile Organics</b>	trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	Toluene	<0.000500	mg/L	EPA 524.2
	cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	Isopropylbenzene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichloropropane	<0.000500	mg/L	EPA 524.2
	1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
	Benzene	<0.000500	mg/L	EPA 524.2
	Carbon tetrachloride	<0.000500	mg/L	EPA 524.2
	1,1-Dichloropropene	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
	Vinyl Chloride	<0.000500	mg/L	EPA 524.2
	Dibromomethane	<0.000500	mg/L	EPA 524.2
	p-Isopropyltoluene	<0.000500	mg/L	EPA 524.2
	Methylene chloride	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
	Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
	Chloroethane	<0.000500	mg/L	EPA 524.2
	Bromomethane	<0.000500	mg/L	EPA 524.2
	Napthalene	<0.000500	mg/L	EPA 524.2
	Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
	1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	n-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,1,2,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	Chloromethane	<0.000500	mg/L	EPA 524.2
	1,3-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	sec-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,2,4-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	tert-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,3,5-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	4-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	n-Propylbenzene	<0.000500	mg/L	EPA 524.2
	1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
	Bromobenzene	<0.000500	mg/L	EPA 524.2
	1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	cis-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	1,3-Dichloropropane	<0.000500	mg/L	EPA 524.2
	2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
	Bromochloromethane	<0.000500	mg/L	EPA 524.2
	1,1,1-Trichloroethane	<0.000500	mg/L	EPA 524.2
	trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethane	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>	EDB	<0.000020	mg/L	EPA 504.1
	DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>	Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>	Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>	Hardness	10	mg/L	EPA 200.7
<b>Iron in Water</b>	Iron in Water	<0.020	mg/L	EPA 200.7
<b>Lead in drinking water</b>	Lead in drinking water	<0.0020	mg/L	EPA 200.9
<b>Magnesium in Water</b>	Magnesium in Water	0.91	mg/L	EPA 200.7
<b>Manganese in Water</b>	Manganese in Water	0.038	mg/L	EPA 200.7
<b>Mercury in Water</b>	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>	Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>	PCB 1248	<0.00010	mg/L	EPA 508
	PCB 1016	<0.00010	mg/L	EPA 508
	PCB 1221	<0.00010	mg/L	EPA 508
	PCB 1242	<0.00010	mg/L	EPA 508
	PCB 1254	<0.00010	mg/L	EPA 508
	PCB 1260	<0.00010	mg/L	EPA 508
	Toxaphene	<0.0010	mg/L	EPA 508
	PCB 1232	<0.00010	mg/L	EPA 508
<b>Pesticides/Semi-Volatiles</b>	Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2
	Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2
	Methoxychlor	<0.0080	mg/L	EPA 525.2
	Atrazine	<0.00022	mg/L	EPA 525.2
	Propachlor	<0.00010	mg/L	EPA 525.2
	Hexachlorobenzene	<0.00020	mg/L	EPA 525.2
	Technical chlordane	<0.00040	mg/L	EPA 525.2



<b>Pesticides/Semi-Volatiles</b>	Simazine	<0.00015	mg/L	EPA 525.2	
	Lindane	<0.00010	mg/L	EPA 525.2	
	Metribuzin	<0.00020	mg/L	EPA 525.2	
	Alachlor	<0.00040	mg/L	EPA 525.2	
	Heptachlor	<0.000080	mg/L	EPA 525.2	
	Metolachlor	<0.00010	mg/L	EPA 525.2	
	Aldrin	<0.00010	mg/L	EPA 525.2	
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2	
	Butachlor	<0.00010	mg/L	EPA 525.2	
	Dieldrin	<0.00010	mg/L	EPA 525.2	
	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2	
	Endrin	<0.00022	mg/L	EPA 525.2	
	<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
	<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	3.0	mg/L	EPA 200.7	
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9	
<b>Zinc in Water</b>	Zinc in Water	0.019	mg/L	EPA 200.7	

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**Sample Comments:** Analytical problem for Cadmium



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43197  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43086  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 15:30

Laboratory Sample Number: AE43086

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	1.0	mg/L of CaCO <sub>3</sub>	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	<5	CU	SM 2120B COLOR
Chloride	Chloride	3.3	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	<5.0	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	41	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	<1.0	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	38	mg/L	SM 2540B
Turbidity	Turbidity	<0.5	NTU	EPA 180.1

Sample Comments: NH<sub>3</sub>-W, TP-W and TS are non-regulatory parameters and are for informational purposes only, not for compliance.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43197  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43594  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 12:20

Laboratory Sample Number: AE43594

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9

Sample Comments:

**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-003</b>
Description: <b>G43197 well 2</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1151</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 1820	MMM	01/17/2020 1038	42145
2	537.1	537.1	10	01/21/2020 1438	MMM	01/17/2020 1038	42145

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.42	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>12</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>68</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.67	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>24</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>31</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>9.3</b>		<b>1.7</b>	<b>0.67</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>59</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.42	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.67	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>180</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
13C2_PFHxA		79	70-130		91	70-130
13C3-HFPO-DA		86	50-150		91	50-150
13C6_PFDA		95	70-130		92	70-130
d5-EtFOSAA		85	70-130		78	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-006</b>
Description: <b>G43197-2</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1220</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/30/2020 0018	SES	01/29/2020 1113	43206
2	537.1	537.1	10	01/30/2020 0007	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.8	0.36	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.8	0.44	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>15</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>79</b>		<b>18</b>	<b>3.6</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.8	0.71	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.8	0.36	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>27</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>45</b>		<b>18</b>	<b>3.6</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>11</b>		<b>1.8</b>	<b>0.71</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>67</b>		<b>18</b>	<b>3.6</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.8	0.36	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.8	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.8	0.71	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>210</b>		<b>18</b>	<b>3.6</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
13C2_PFHxA		101	70-130		113	70-130
13C3-HFPO-DA		91	50-150		107	50-150
13C6_PFDA		117	70-130		127	70-130
d5-EtFOSAA		97	70-130		98	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**Well 3 (G43198) – Located on Lot 76**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43198  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43087  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 14:05

Laboratory Sample Number: AE43087

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	3.3	mg/L	LACHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LACHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report**

**Station Code:** 4360012-G43198  
**Location Description:** AMERICAN MH PLAZA  
**Matrix:** WATER

**Laboratory Sample Number:** AE43088  
**Program Charge:** DWT  
**Collected By:** GARRIS K  
**Date of Collection:** 01/16/2020  
**Time of Collection:** 14:05

**Sample Type:** CR  
**Additional Info:**

Laboratory Sample Number: AE43088

	Analyte	Result	Units	Method Reference
<b>Aluminum in Water</b>	Aluminum in Water	<0.050	mg/L	EPA 200.7
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L	EPA 200.9
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L	EPA 200.9
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L	EPA 200.7
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L	EPA 550.1
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L	EPA 200.7
<b>Calcium in Water</b>	Calcium in Water	3.0	mg/L	EPA 200.7
<b>Carbamate Pesticides</b>	Oxamyl	<0.0020	mg/L	EPA 531.1
	Aldicarb sulfone	<0.00050	mg/L	EPA 531.1
	Aldicarb sulfoxide	<0.00050	mg/L	EPA 531.1
	Aldicarb	<0.00050	mg/L	EPA 531.1
	3-Hydroxycarbofuran	<0.00050	mg/L	EPA 531.1
	Carbofuran	<0.00090	mg/L	EPA 531.1
	Carbaryl	<0.00050	mg/L	EPA 531.1
	Methomyl	<0.00050	mg/L	EPA 531.1
<b>Chlorinated Acid Herbicides and Dalapon</b>	Dinoseb	<0.000080	mg/L	EPA 515.3
	PCP	<0.000010	mg/L	EPA 515.3
	2,4-D	<0.00010	mg/L	EPA 515.3
	Dicamba	<0.000040	mg/L	EPA 515.3
	Dalapon	<0.0010	mg/L	EPA 515.3
	Picloram	<0.000040	mg/L	EPA 515.3
	2,4,5-TP	<0.000040	mg/L	EPA 515.3
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L	EPA 200.7
<b>Copper in Water</b>	Copper in Water	<0.010	mg/L	EPA 200.7
<b>Diquat</b>	Diquat	<0.00088	mg/L	EPA 549.2
<b>Drinking Water Volatile Organics</b>	1,1,1,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	Ethylbenzene	<0.000500	mg/L	EPA 524.2
	o-Xylene	<0.000500	mg/L	EPA 524.2
	Isopropylbenzene	<0.000500	mg/L	EPA 524.2
	Styrene	<0.000500	mg/L	EPA 524.2
	m,p-Xylenes	<0.00100	mg/L	EPA 524.2
	Chlorobenzene	<0.000500	mg/L	EPA 524.2
	1,3-Dichloropropane	<0.000500	mg/L	EPA 524.2

**Drinking Water Volatile Organics**

1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
tert-Butylbenzene	<0.000500	mg/L	EPA 524.2
Toluene	<0.000500	mg/L	EPA 524.2
trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
Tetrachloroethene	<0.000500	mg/L	EPA 524.2
Bromochloromethane	<0.000500	mg/L	EPA 524.2
n-Butylbenzene	<0.000500	mg/L	EPA 524.2
1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
p-Isopropyltoluene	<0.000500	mg/L	EPA 524.2
1,3-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
4-Chlorotoluene	<0.000500	mg/L	EPA 524.2
1,2,4-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
1,3,5-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
n-Propylbenzene	<0.000500	mg/L	EPA 524.2
1,2,3-Trichloropropane	<0.000500	mg/L	EPA 524.2
Bromobenzene	<0.000500	mg/L	EPA 524.2
sec-Butylbenzene	<0.000500	mg/L	EPA 524.2
Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
Napthalene	<0.000500	mg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
Chloromethane	<0.000500	mg/L	EPA 524.2
Vinyl Chloride	<0.000500	mg/L	EPA 524.2
1,1-Dichloropropene	<0.000500	mg/L	EPA 524.2
Chloroethane	<0.000500	mg/L	EPA 524.2
Dibromomethane	<0.000500	mg/L	EPA 524.2
Carbon tetrachloride	<0.000500	mg/L	EPA 524.2
1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
Trichloroethylene	<0.000500	mg/L	EPA 524.2
Bromomethane	<0.000500	mg/L	EPA 524.2
Benzene	<0.000500	mg/L	EPA 524.2
1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
1,1,1-Trichloroethane	<0.000500	mg/L	EPA 524.2
cis-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
1,1-Dichloroethane	<0.000500	mg/L	EPA 524.2
trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
Methylene chloride	<0.000500	mg/L	EPA 524.2
1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>			
EDB	<0.000020	mg/L	EPA 504.1
DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>			
Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>			
Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>			
Hardness	12	mg/L	EPA 200.7
<b>Iron in Water</b>			
Iron in Water	<0.020	mg/L	EPA 200.7
<b>Lead in drinking water</b>			
Lead in drinking water	<0.0020	mg/L	EPA 200.9
<b>Magnesium in Water</b>			
Magnesium in Water	1.0	mg/L	EPA 200.7
<b>Manganese in Water</b>			
Manganese in Water	0.029	mg/L	EPA 200.7
<b>Mercury in Water</b>			
Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>			
Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>			
PCB 1260	<0.00010	mg/L	EPA 508
PCB 1232	<0.00010	mg/L	EPA 508
Toxaphene	<0.0010	mg/L	EPA 508
PCB 1221	<0.00010	mg/L	EPA 508
PCB 1254	<0.00010	mg/L	EPA 508
PCB 1248	<0.00010	mg/L	EPA 508
PCB 1242	<0.00010	mg/L	EPA 508
PCB 1016	<0.00010	mg/L	EPA 508
<b>Pesticides/Semi-Volatiles</b>			
Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2
Technical chlordane	<0.00040	mg/L	EPA 525.2
Simazine	<0.00015	mg/L	EPA 525.2
Dieldrin	<0.00010	mg/L	EPA 525.2
Hexachlorobenzene	<0.00020	mg/L	EPA 525.2
Atrazine	<0.00022	mg/L	EPA 525.2
Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2

<b>Pesticides/Semi-Volatiles</b>	Methoxychlor	<0.0080	mg/L	EPA 525.2	
	Propachlor	<0.00010	mg/L	EPA 525.2	
	Endrin	<0.00022	mg/L	EPA 525.2	
	Butachlor	<0.00010	mg/L	EPA 525.2	
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2	
	Aldrin	<0.00010	mg/L	EPA 525.2	
	Metolachlor	<0.00010	mg/L	EPA 525.2	
	Heptachlor	<0.000080	mg/L	EPA 525.2	
	Alachlor	<0.00040	mg/L	EPA 525.2	
	Metribuzin	<0.00020	mg/L	EPA 525.2	
	Lindane	<0.00010	mg/L	EPA 525.2	
	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2	
	<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
	<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	4.3	mg/L	EPA 200.7	
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9	
<b>Zinc in Water</b>	Zinc in Water	0.016	mg/L	EPA 200.7	

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**Sample Comments:** Analytical problem for Cadmium



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43198  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43090  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 14:05

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43090

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	2.2	mg/L of CaCO <sub>3</sub>	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	5	CU	SM 2120B COLOR
Chloride	Chloride	3.7	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	5.2	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	38	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	<1.0	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	41	mg/L	SM 2540B
Turbidity	Turbidity	<0.5	NTU	EPA 180.1

Sample Comments: NH3-W, TP-W and TS are non-regulatory parameters  
and are for informational purposes only, not for compliance.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43198  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43596  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 11:21

Laboratory Sample Number: AE43596

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9

Sample Comments:



# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-004</b>
Description: <b>G43198 well 3</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1211</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 2205	MMM	01/19/2020 1249	42255
2	537.1	537.1	10	01/21/2020 1510	MMM	01/19/2020 1249	42255

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.8	0.35	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.8	0.44	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>12</b>		<b>1.8</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>55</b>		<b>18</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-decanoic acid (PFDA)</b>	<b>335-76-2</b>	<b>537.1</b>	<b>1.1</b>	<b>J</b>	<b>1.8</b>	<b>0.70</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.8	0.35	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>22</b>		<b>1.8</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>27</b>		<b>1.8</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>11</b>		<b>1.8</b>	<b>0.70</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>45</b>		<b>18</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.8	0.35	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.8	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.8	0.70	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>160</b>		<b>18</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_PFHxA		83		95
13C3-HFPO-DA		91		91
13C6_PFDA		106		97
d5-EtFOSAA		93		84

LOQ = Limit of Quantitation    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    DL = Detection Limit  
 ND = Not detected at or above the DL    N = Recovery is out of criteria    P = The RPD between two GC columns exceeds 40%    J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time    W = Reported on wet weight basis

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# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-004</b>
Description: <b>G43198-3</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1121</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/29/2020 2304	SES	01/29/2020 1113	43206
2	537.1	537.1	10	01/29/2020 2253	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-1-butane sulfonic acid (PFBS)	375-73-5	537.1	15		1.7	0.34	ng/L	1
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	537.1	65		17	3.4	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	1.2	J	1.7	0.68	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1	23		1.7	0.34	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1	33		1.7	0.34	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1	10		1.7	0.68	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1	52		17	3.4	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.68	ng/L	1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	537.1	180		17	3.4	ng/L	2

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_PFHxA		95		111
13C3-HFPO-DA		85		95
13C6_PFDA		111		113
d5-EtFOSAA		97		95

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**Well 4 (G43199) – Located on Lot 38**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43199  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43091  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 14:50

Laboratory Sample Number: AE43091

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	0.92	mg/L	LACHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LACHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control**  
**Analytical & Radiological Environmental**  
**Services Division - Laboratory Report**

Station Code: 4360012-G43199  
 Location Description: AMERICAN MH PLAZA  
 Matrix: WATER

Sample Type: CR  
 Additional Info:

Laboratory Sample Number: AE43092  
 Program Charge: DWT  
 Collected By: GARRIS K  
 Date of Collection: 01/16/2020  
 Time of Collection: 14:50

Laboratory Sample Number: AE43092

Analyte	Result	Units	Method Reference	
<b>Aluminum in Water</b>	Aluminum in Water	<0.050	mg/L EPA 200.7	
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L EPA 200.9	
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L EPA 200.9	
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L EPA 200.7	
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L EPA 550.1	
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L EPA 200.7	
<b>Calcium in Water</b>	Calcium in Water	0.78	mg/L EPA 200.7	
<b>Carbamate Pesticides</b>	Aldicarb-sulfoxide	<0.00050	mg/L EPA 531.1	
	Oxamyl	<0.0020	mg/L EPA 531.1	
	Aldicarb-sulfone	<0.00050	mg/L EPA 531.1	
	Carbaryl	<0.00050	mg/L EPA 531.1	
	Carbofuran	<0.00090	mg/L EPA 531.1	
	Aldicarb	<0.00050	mg/L EPA 531.1	
	3-Hydroxycarbofuran	<0.00050	mg/L EPA 531.1	
	Methomyl	<0.00050	mg/L EPA 531.1	
	<b>Chlorinated Acid Herbicides and Dalapon</b>	Dalapon	<0.0010	mg/L EPA 515.3
		PCP	<0.000010	mg/L EPA 515.3
2,4-D		<0.00010	mg/L EPA 515.3	
2,4,5-TP		<0.000040	mg/L EPA 515.3	
Dinoseb		<0.000080	mg/L EPA 515.3	
Picloram		<0.000040	mg/L EPA 515.3	
Dicamba		<0.000040	mg/L EPA 515.3	
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L EPA 200.7	
<b>Copper in Water</b>	Copper in Water	0.058	mg/L EPA 200.7	
<b>Diquat</b>	Diquat	<0.00088	mg/L EPA 549.2	
<b>Drinking Water Volatile Organics</b>	Benzene	<0.000500	mg/L EPA 524.2	
	Carbon tetrachloride	<0.000500	mg/L EPA 524.2	
	1,1-Dichloropropene	<0.000500	mg/L EPA 524.2	
	1,1,1-Trichloroethane	<0.000500	mg/L EPA 524.2	
	Bromochloromethane	<0.000500	mg/L EPA 524.2	
	cis-1,2-Dichloroethene	<0.000500	mg/L EPA 524.2	
	1,1-Dichloroethane	<0.000500	mg/L EPA 524.2	
	Dibromomethane	<0.000500	mg/L EPA 524.2	

**Drinking Water Volatile Organics**

	trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	Methylene chloride	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
	1,1,1,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
	Chloroethane	<0.000500	mg/L	EPA 524.2
	2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Chlorobenzene	<0.000500	mg/L	EPA 524.2
	Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	Napthalene	<0.000500	mg/L	EPA 524.2
	Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
	Bromomethane	<0.000500	mg/L	EPA 524.2
	1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	n-Butylbenzene	<0.000500	mg/L	EPA 524.2
	Trichloroethylene	<0.000500	mg/L	EPA 524.2
	1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
	1,3-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Tetrachloroethene	<0.000500	mg/L	EPA 524.2
	1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
	trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	Toluene	<0.000500	mg/L	EPA 524.2
	cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	1,3,5-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	Ethylbenzene	<0.000500	mg/L	EPA 524.2
	m,p-Xylenes	<0.00100	mg/L	EPA 524.2
	o-Xylene	<0.000500	mg/L	EPA 524.2
	Styrene	<0.000500	mg/L	EPA 524.2
	Vinyl Chloride	<0.000500	mg/L	EPA 524.2
	Isopropylbenzene	<0.000500	mg/L	EPA 524.2
	1,1,2,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	Bromobenzene	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichloropropane	<0.000500	mg/L	EPA 524.2
	n-Propylbenzene	<0.000500	mg/L	EPA 524.2
	4-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	tert-Butylbenzene	<0.000500	mg/L	EPA 524.2
	1,2,4-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	sec-Butylbenzene	<0.000500	mg/L	EPA 524.2
	p-Isopropyltoluene	<0.000500	mg/L	EPA 524.2
	Chloromethane	<0.000500	mg/L	EPA 524.2
	Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
	2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	1,3-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>	EDB	<0.000020	mg/L	EPA 504.1
	DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>	Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>	Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>	Hardness	3.6	mg/L	EPA 200.7
<b>Iron in Water</b>	Iron in Water	2.3	mg/L	EPA 200.7
<b>Lead in drinking water</b>	Lead in drinking water	<0.0020	mg/L	EPA 200.9
<b>Magnesium in Water</b>	Magnesium in Water	0.40	mg/L	EPA 200.7
<b>Manganese in Water</b>	Manganese in Water	0.014	mg/L	EPA 200.7
<b>Mercury in Water</b>	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>	Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>	PCB 1221	<0.00010	mg/L	EPA 508
	PCB 1242	<0.00010	mg/L	EPA 508
	PCB 1254	<0.00010	mg/L	EPA 508
	Toxaphene	<0.0010	mg/L	EPA 508
	PCB 1016	<0.00010	mg/L	EPA 508
	PCB 1260	<0.00010	mg/L	EPA 508
	PCB 1248	<0.00010	mg/L	EPA 508
	PCB 1232	<0.00010	mg/L	EPA 508
<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	4.4	mg/L	EPA 200.7
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9
<b>Zinc in Water</b>	Zinc in Water	0.11	mg/L	EPA 200.7

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**Sample Comments:** Analytical problem for Cadmium  
Analytical problem for Pesticides/Semi-Volatiles.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43199  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43094  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 14:50

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43094

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	2.0	mg/L of CaCO <sub>3</sub>	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	30	CU	SM 2120B COLOR
Chloride	Chloride	3.0	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	5.4	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	32	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	<1.0	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	31	mg/L	SM 2540B
Turbidity	Turbidity	16	NTU	EPA 180.1

Sample Comments: NH<sub>3</sub>-W, TP-W and TS are non-regulatory parameters  
and are for informational purposes only, not for compliance.





South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43199  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER  
Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43598  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 12:45

Laboratory Sample Number: AE43598

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9
Pesticides/Semi-Volatiles	Simazine	<0.00015	mg/L	EPA 525.2
	Endrin	<0.00022	mg/L	EPA 525.2
	Dieldrin	<0.00010	mg/L	EPA 525.2
	Butachlor	<0.00010	mg/L	EPA 525.2
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2
	Aldrin	<0.00010	mg/L	EPA 525.2
	Metolachlor	<0.00010	mg/L	EPA 525.2
	Heptachlor	<0.000080	mg/L	EPA 525.2
	Alachlor	<0.00040	mg/L	EPA 525.2
	Metribuzin	<0.00020	mg/L	EPA 525.2
	Atrazine	<0.00022	mg/L	EPA 525.2
	Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2
	Hexachlorobenzene	<0.00020	mg/L	EPA 525.2
	Propachlor	<0.00010	mg/L	EPA 525.2
	Lindane	<0.00010	mg/L	EPA 525.2
	Technical chlordane	<0.00040	mg/L	EPA 525.2
	Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2
	Methoxychlor	<0.0080	mg/L	EPA 525.2
	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2

Sample Comments:

**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-001</b>
Description: <b>G43199 well 4</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1101</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 1759	MMM	01/17/2020 1038	42145
2	537.1	537.1	5	01/21/2020 1417	MMM	01/17/2020 1038	42145

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-1-butane sulfonic acid (PFBS)	375-73-5	537.1	7.8		1.7	0.34	ng/L	1
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	537.1	63		8.5	1.7	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	0.91	J	1.7	0.68	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1	20		1.7	0.34	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1	31		1.7	0.34	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1	6.4		1.7	0.68	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1	34		8.5	1.7	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.68	ng/L	1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	537.1	120		8.5	1.7	ng/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
13C2_PFHxA		87	70-130		93	70-130
13C3-HFPO-DA		105	50-150		88	50-150
13C6_PFDA		105	70-130		95	70-130
d5-EtFOSAA		78	70-130		85	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-007</b>
Description: <b>G43199-4</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1245</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/30/2020 0050	SES	01/29/2020 1113	43206
2	537.1	537.1	5	01/30/2020 0039	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-1-butane sulfonic acid (PFBS)	375-73-5	537.1	8.9		1.7	0.34	ng/L	1
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	537.1	70		8.5	1.7	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	0.91	J	1.7	0.68	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1	21		1.7	0.34	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1	30		1.7	0.34	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1	7.4		1.7	0.68	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1	41		8.5	1.7	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.68	ng/L	1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	537.1	140		8.5	1.7	ng/L	2

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_PFHxA		92		110
13C3-HFPO-DA		92		99
13C6_PFDA		109		101
d5-EtFOSAA		92		96

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**Well 5 (G43200) – Located on Lot 63**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43200  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43095  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 13:30

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43095

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	2.4	mg/L	LCHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LCHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report**

**Station Code:** 4360012-G43200  
**Location Description:** AMERICAN MH PLAZA  
**Matrix:** WATER  
  
**Sample Type:** CR  
**Additional Info:**

**Laboratory Sample Number:** AE43096  
**Program Charge:** DWT  
**Collected By:** GARRIS K  
**Date of Collection:** 01/16/2020  
**Time of Collection:** 13:30

Laboratory Sample Number: AE43096

Analyte	Result	Units	Method Reference	
<b>Aluminum in Water</b>	Aluminum in Water	0.14	mg/L EPA 200.7	
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L EPA 200.9	
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L EPA 200.9	
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L EPA 200.7	
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L EPA 550.1	
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L EPA 200.7	
<b>Calcium in Water</b>	Calcium in Water	1.2	mg/L EPA 200.7	
<b>Carbamate Pesticides</b>	Aldicarb-sulfoxide	<0.00050	mg/L EPA 531.1	
	Methomyl	<0.00050	mg/L EPA 531.1	
	3-Hydroxycarbofuran	<0.00050	mg/L EPA 531.1	
	Aldicarb	<0.00050	mg/L EPA 531.1	
	Carbofuran	<0.00090	mg/L EPA 531.1	
	Carbaryl	<0.00050	mg/L EPA 531.1	
	Aldicarb-sulfone	<0.00050	mg/L EPA 531.1	
	Oxamyl	<0.0020	mg/L EPA 531.1	
	<b>Chlorinated Acid Herbicides and Dalapon</b>	2,4-D	<0.00010	mg/L EPA 515.3
		Dicamba	<0.000040	mg/L EPA 515.3
PCP		<0.000010	mg/L EPA 515.3	
2,4,5-TP		<0.000040	mg/L EPA 515.3	
Dinoseb		<0.000080	mg/L EPA 515.3	
Picloram		<0.000040	mg/L EPA 515.3	
Dalapon		<0.0010	mg/L EPA 515.3	
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L EPA 200.7	
<b>Copper in Water</b>	Copper in Water	<0.010	mg/L EPA 200.7	
<b>Diquat</b>	Diquat	<0.00088	mg/L EPA 549.2	
<b>Drinking Water Volatile Organics</b>	Benzene	<0.000500	mg/L EPA 524.2	
	p-Isopropyltoluene	<0.000500	mg/L EPA 524.2	
	1,3-Dichlorobenzene	<0.000500	mg/L EPA 524.2	
	sec-Butylbenzene	<0.000500	mg/L EPA 524.2	
	1,2,4-Trimethylbenzene	<0.000500	mg/L EPA 524.2	
	tert-Butylbenzene	<0.000500	mg/L EPA 524.2	
	1,3,5-Trimethylbenzene	<0.000500	mg/L EPA 524.2	
4-Chlorotoluene	<0.000500	mg/L EPA 524.2		

**Drinking Water Volatile Organics**

Dibromomethane	<0.000500	mg/L	EPA 524.2
1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
Trichloroethylene	<0.000500	mg/L	EPA 524.2
1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
n-Butylbenzene	<0.000500	mg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
Carbon tetrachloride	<0.000500	mg/L	EPA 524.2
1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
m,p-Xylenes	<0.00100	mg/L	EPA 524.2
o-Xylene	<0.000500	mg/L	EPA 524.2
Styrene	<0.000500	mg/L	EPA 524.2
Isopropylbenzene	<0.000500	mg/L	EPA 524.2
Bromobenzene	<0.000500	mg/L	EPA 524.2
1,2,3-Trichloropropane	<0.000500	mg/L	EPA 524.2
n-Propylbenzene	<0.000500	mg/L	EPA 524.2
Napthalene	<0.000500	mg/L	EPA 524.2
Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
Tetrachloroethene	<0.000500	mg/L	EPA 524.2
1,3-Dichloropropane	<0.000500	mg/L	EPA 524.2
Toluene	<0.000500	mg/L	EPA 524.2
cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
Chlorobenzene	<0.000500	mg/L	EPA 524.2
1,1-Dichloropropene	<0.000500	mg/L	EPA 524.2
Chloromethane	<0.000500	mg/L	EPA 524.2
trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
Bromomethane	<0.000500	mg/L	EPA 524.2
1,1,1-Trichloroethane	<0.000500	mg/L	EPA 524.2
Chloroethane	<0.000500	mg/L	EPA 524.2
Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
Bromochloromethane	<0.000500	mg/L	EPA 524.2
1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
Methylene chloride	<0.000500	mg/L	EPA 524.2
Vinyl Chloride	<0.000500	mg/L	EPA 524.2
cis-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
Ethylbenzene	<0.000500	mg/L	EPA 524.2
1,1-Dichloroethane	<0.000500	mg/L	EPA 524.2
2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>			
EDB	<0.000020	mg/L	EPA 504.1
DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>			
Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>			
Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>			
Hardness	6.6	mg/L	EPA 200.7
<b>Iron in Water</b>			
Iron in Water	<0.020	mg/L	EPA 200.7
<b>Lead in drinking water</b>			
Lead in drinking water	<0.0020	mg/L	EPA 200.9
<b>Magnesium in Water</b>			
Magnesium in Water	0.88	mg/L	EPA 200.7
<b>Manganese in Water</b>			
Manganese in Water	0.036	mg/L	EPA 200.7
<b>Mercury in Water</b>			
Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>			
Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>			
PCB 1248	<0.00010	mg/L	EPA 508
PCB 1016	<0.00010	mg/L	EPA 508
PCB 1221	<0.00010	mg/L	EPA 508
PCB 1242	<0.00010	mg/L	EPA 508
PCB 1254	<0.00010	mg/L	EPA 508
PCB 1260	<0.00010	mg/L	EPA 508
Toxaphene	<0.0010	mg/L	EPA 508
PCB 1232	<0.00010	mg/L	EPA 508
<b>Pesticides/Semi-Volatiles</b>			
Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2
Technical chlordane	<0.00040	mg/L	EPA 525.2
Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2
Dieldrin	<0.00010	mg/L	EPA 525.2
Methoxychlor	<0.0080	mg/L	EPA 525.2
Hexachlorobenzene	<0.00020	mg/L	EPA 525.2
Endrin	<0.00022	mg/L	EPA 525.2

<b>Pesticides/Semi-Volatiles</b>	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2	
	Propachlor	<0.00010	mg/L	EPA 525.2	
	Simazine	<0.00015	mg/L	EPA 525.2	
	Atrazine	<0.00022	mg/L	EPA 525.2	
	Lindane	<0.00010	mg/L	EPA 525.2	
	Alachlor	<0.00040	mg/L	EPA 525.2	
	Heptachlor	<0.000080	mg/L	EPA 525.2	
	Metolachlor	<0.00010	mg/L	EPA 525.2	
	Aldrin	<0.00010	mg/L	EPA 525.2	
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2	
	Metribuzin	<0.00020	mg/L	EPA 525.2	
	Butachlor	<0.00010	mg/L	EPA 525.2	
	<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
	<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	2.8	mg/L	EPA 200.7	
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9	
<b>Zinc in Water</b>	Zinc in Water	0.12	mg/L	EPA 200.7	

**Sample Comments:** Analytical problem for Cadmium





South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43200  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43098  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 13:30

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43098

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	1.0	mg/L of CaCO <sub>3</sub>	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	5	CU	SM 2120B COLOR
Chloride	Chloride	2.9	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	<5.0	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	35	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	<1.0	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	27	mg/L	SM 2540B
Turbidity	Turbidity	<0.5	NTU	EPA 180.1

Sample Comments: NH<sub>3</sub>-W, TP-W and TS are non-regulatory parameters and are for informational purposes only, not for compliance.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43200  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43597  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 10:58

Laboratory Sample Number: AE43597

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9

Sample Comments:

# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-002</b>
Description: <b>G43200 well 5</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1126</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 1810	MMM	01/17/2020 1038	42145
2	537.1	537.1	10	01/21/2020 1428	MMM	01/17/2020 1038	42145

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.35	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.44	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>11</b>		<b>1.7</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>66</b>		<b>17</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.70	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.35	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>25</b>		<b>1.7</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>31</b>		<b>1.7</b>	<b>0.35</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>9.3</b>		<b>1.7</b>	<b>0.70</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>57</b>		<b>17</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.35	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	537.1	ND		1.7	0.70	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>190</b>		<b>17</b>	<b>3.5</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1 Acceptance		Run 2 Acceptance		
	Q	% Recovery	Q	% Recovery	
13C2_PFHxA		79	70-130	95	70-130
13C3-HFPO-DA		89	50-150	99	50-150
13C6_PFDA		95	70-130	95	70-130
d5-EtFOSAA		74	70-130	87	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-002</b>
Description: <b>G43200-5</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1058</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/29/2020 2232	SES	01/29/2020 1113	43206
2	537.1	537.1	10	01/29/2020 2221	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.43	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>4.8</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>72</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.68	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>28</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>39</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>13</b>		<b>1.7</b>	<b>0.68</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>56</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.68	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>210</b>		<b>17</b>	<b>3.4</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Acceptance Limits	Run 2		
	Q	% Recovery		Q	% Recovery	
13C2_PFHxA		102	70-130		115	70-130
13C3-HFPO-DA		96	50-150		102	50-150
13C6_PFDA		118	70-130		100	70-130
d5-EtFOSAA		94	70-130		90	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

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**Well 6 (G43201) – Located on Lot 67**

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South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43201  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43099  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 16:45

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43099

	Analyte	Result	Units	Method Reference
Nitrate Nitrite	Nitrate Nitrite	0.38	mg/L	LACHAT 10107041C
Nitrite	Nitrite	<0.020	mg/L	LACHAT 10107051A

Sample Comments:



**South Carolina Department of Health and Environmental Control**  
**Analytical & Radiological Environmental**  
**Services Division - Laboratory Report**

Station Code: 4360012-G43201  
 Location Description: AMERICAN MH PLAZA  
 Matrix: WATER

Laboratory Sample Number: AE43100  
 Program Charge: DWT  
 Collected By: GARRIS K  
 Date of Collection: 01/16/2020  
 Time of Collection: 16:45

Sample Type: CR  
 Additional Info:

Laboratory Sample Number: AE43100

Analyte	Result	Units	Method Reference
<b>Aluminum in Water</b>	Aluminum in Water	<0.050	mg/L EPA 200.7
<b>Antimony by graphite furnace</b>	Antimony by graphite furnace	<0.0030	mg/L EPA 200.9
<b>Arsenic by graphite furnace</b>	Arsenic by graphite furnace	<0.0050	mg/L EPA 200.9
<b>Barium in Water</b>	Barium in Water	<0.050	mg/L EPA 200.7
<b>Benzo(a)pyrene</b>	Benzo(a)pyrene	<0.000020	mg/L EPA 550.1
<b>Beryllium in Water</b>	Beryllium in Water	<0.0010	mg/L EPA 200.7
<b>Calcium in Water</b>	Calcium in Water	0.57	mg/L EPA 200.7
<b>Carbamate Pesticides</b>	Aldicarb sulfone	<0.00050	mg/L EPA 531.1
	Aldicarb sulfoxide	<0.00050	mg/L EPA 531.1
	Oxamyl	<0.0020	mg/L EPA 531.1
	3-Hydroxycarbofuran	<0.00050	mg/L EPA 531.1
	Aldicarb	<0.00050	mg/L EPA 531.1
	Carbofuran	<0.00090	mg/L EPA 531.1
	Carbaryl	<0.00050	mg/L EPA 531.1
	Methomyl	<0.00050	mg/L EPA 531.1
	<b>Chlorinated Acid Herbicides and Dalapon</b>	Dicamba	<0.000040
Picloram		<0.000040	mg/L EPA 515.3
Dinoseb		<0.000080	mg/L EPA 515.3
2,4,5-TP		<0.000040	mg/L EPA 515.3
2,4-D		<0.00010	mg/L EPA 515.3
Dalapon		<0.0010	mg/L EPA 515.3
PCP		<0.000010	mg/L EPA 515.3
<b>Chromium in Water</b>	Chromium in Water	<0.0050	mg/L EPA 200.7
<b>Copper in Water</b>	Copper in Water	0.011	mg/L EPA 200.7
<b>Diquat</b>	Diquat	<0.00088	mg/L EPA 549.2
<b>Drinking Water Volatile Organics</b>	m,p-Xylenes	<0.00100	mg/L EPA 524.2
	1,2,3-Trichloropropane	<0.000500	mg/L EPA 524.2
	Bromobenzene	<0.000500	mg/L EPA 524.2
	1,1,2,2-Tetrachloroethane	<0.000500	mg/L EPA 524.2
	Isopropylbenzene	<0.000500	mg/L EPA 524.2
	n-Propylbenzene	<0.000500	mg/L EPA 524.2
	o-Xylene	<0.000500	mg/L EPA 524.2
1,2,4-Trimethylbenzene	<0.000500	mg/L EPA 524.2	

**Drinking Water Volatile Organics**

	Ethylbenzene	<0.000500	mg/L	EPA 524.2
	1,1,1,2-Tetrachloroethane	<0.000500	mg/L	EPA 524.2
	Chlorobenzene	<0.000500	mg/L	EPA 524.2
	1,3-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Tetrachloroethene	<0.000500	mg/L	EPA 524.2
	1,1,2-Trichloroethane	<0.000500	mg/L	EPA 524.2
	Styrene	<0.000500	mg/L	EPA 524.2
	1,2-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	Methyl tert-Butyl Ether	<0.000500	mg/L	EPA 524.2
	1,2,3-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	trans-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	Napthalene	<0.000500	mg/L	EPA 524.2
	Hexachlorobutadiene	<0.000500	mg/L	EPA 524.2
	1,3,5-Trimethylbenzene	<0.000500	mg/L	EPA 524.2
	n-Butylbenzene	<0.000500	mg/L	EPA 524.2
	2-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	1,4-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	p-Isopropyltoluene	<0.000500	mg/L	EPA 524.2
	1,3-Dichlorobenzene	<0.000500	mg/L	EPA 524.2
	sec-Butylbenzene	<0.000500	mg/L	EPA 524.2
	tert-Butylbenzene	<0.000500	mg/L	EPA 524.2
	4-Chlorotoluene	<0.000500	mg/L	EPA 524.2
	1,2,4-Trichlorobenzene	<0.000500	mg/L	EPA 524.2
	Chloroethane	<0.000500	mg/L	EPA 524.2
	Dichlorodifluoromethane	<0.000500	mg/L	EPA 524.2
	Chloromethane	<0.000500	mg/L	EPA 524.2
	Bromomethane	<0.000500	mg/L	EPA 524.2
	Toluene	<0.000500	mg/L	EPA 524.2
	Trichlorofluoromethane	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethylene	<0.000500	mg/L	EPA 524.2
	Methylene chloride	<0.000500	mg/L	EPA 524.2
	trans-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	1,1-Dichloroethane	<0.000500	mg/L	EPA 524.2
	2,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Dibromomethane	<0.000500	mg/L	EPA 524.2
	Vinyl Chloride	<0.000500	mg/L	EPA 524.2
	cis-1,3-Dichloropropene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloropropane	<0.000500	mg/L	EPA 524.2
	Trichloroethylene	<0.000500	mg/L	EPA 524.2
	1,2-Dichloroethane	<0.000500	mg/L	EPA 524.2
	Bromochloromethane	<0.000500	mg/L	EPA 524.2
	Carbon tetrachloride	<0.000500	mg/L	EPA 524.2
	1,1-Dichloropropene	<0.000500	mg/L	EPA 524.2
	cis-1,2-Dichloroethene	<0.000500	mg/L	EPA 524.2
	1,1,1-Trichloroethane	<0.000500	mg/L	EPA 524.2
	Benzene	<0.000500	mg/L	EPA 524.2
<b>EDB/DBCP</b>	EDB	<0.000020	mg/L	EPA 504.1
	DBCP	<0.000020	mg/L	EPA 504.1
<b>Fluoride</b>	Fluoride	<0.10	mg/L	LACHAT 10109122A
<b>Glyphosate</b>	Glyphosate	<0.0060	mg/L	EPA 547
<b>Hardness</b>	Hardness	3.4	mg/L	EPA 200.7
<b>Iron in Water</b>	Iron in Water	<0.020	mg/L	EPA 200.7
<b>Lead in drinking water</b>	Lead in drinking water	<0.0020	mg/L	EPA 200.9
<b>Magnesium in Water</b>	Magnesium in Water	0.47	mg/L	EPA 200.7
<b>Manganese in Water</b>	Manganese in Water	0.011	mg/L	EPA 200.7
<b>Mercury in Water</b>	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
<b>Nickel in Water</b>	Nickel in Water	<0.020	mg/L	EPA 200.7
<b>PCBs and Toxaphene</b>	PCB 1254	<0.00010	mg/L	EPA 508
	PCB 1242	<0.00010	mg/L	EPA 508
	PCB 1232	<0.00010	mg/L	EPA 508
	PCB 1221	<0.00010	mg/L	EPA 508
	PCB 1016	<0.00010	mg/L	EPA 508
	PCB 1248	<0.00010	mg/L	EPA 508
	PCB 1260	<0.00010	mg/L	EPA 508
	Toxaphene	<0.0010	mg/L	EPA 508
<b>Selenium by graphite furnace</b>	Selenium by graphite furnace	<0.0020	mg/L	EPA 200.9
<b>Silver in Water</b>	Silver in Water	<0.030	mg/L	EPA 200.7
<b>Sodium in Water</b>	Sodium in Water	4.7	mg/L	EPA 200.7
<b>Thallium by graphite furnace</b>	Thallium by graphite furnace	<0.00050	mg/L	EPA 200.9
<b>Zinc in Water</b>	Zinc in Water	<0.010	mg/L	EPA 200.7



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**Sample Comments:** Analytical problem for Cadmium  
Analytical problem for Pesticides/Semi-Volatiles.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43201  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Sample Type:  
Additional Info:

Laboratory Sample Number: AE43102  
Program Charge: WSP  
Collected By: GARRIS K  
Date of Collection: 01/16/2020  
Time of Collection: 16:45

Laboratory Sample Number: AE43102

	Analyte	Result	Units	Method Reference
Alkalinity	Alkalinity	3.1	mg/L of CaCO3	SM 2320B
Ammonia	Ammonia	<0.050	mg/L	LACHAT 10107065J
Apparent Color	Apparent Color	<5	CU	SM 2120B COLOR
Chloride	Chloride	3.0	mg/L	LACHAT 10117071B
Sulfate, Ion Chromatograph	Sulfate, Ion Chromatograph	5.4	mg/L	EPA 300.1
Total Dissolved Solids	Total Dissolved Solids	28	mg/L	SM 2540C
Total Organic Carbon	Total Organic Carbon	<1.0	mg/L	SM 5310B
Total Phosphorus in Water	Total Phosphorus in Water	<0.020	mg/L	LACHAT 10115011E
Total Solids	Total Solids	22	mg/L	SM 2540B
Turbidity	Turbidity	<0.5	NTU	EPA 180.1

Sample Comments: NH3-W, TP-W and TS are non-regulatory parameters  
and are for informational purposes only, not for compliance.



South Carolina Department of Health and Environmental Control  
Analytical & Radiological Environmental  
Services Division - Laboratory Report

Station Code: 4360012-G43201  
Location Description: AMERICAN MH PLAZA  
Matrix: WATER

Laboratory Sample Number: AE43599  
Program Charge: DWT  
Collected By: GARRIS K  
Date of Collection: 01/28/2020  
Time of Collection: 10:30

Sample Type: CR  
Additional Info:

Laboratory Sample Number: AE43599

	Analyte	Result	Units	Method Reference
Cadmium by graphite furnace	Cadmium by graphite furnace	<0.00010	mg/L	EPA 200.9
Pesticides/Semi-Volatiles	Alachlor	<0.00040	mg/L	EPA 525.2
	Technical chlordane	<0.00040	mg/L	EPA 525.2
	Di (2-ethylhexyl) phthalate	<0.00060	mg/L	EPA 525.2
	Methoxychlor	<0.00080	mg/L	EPA 525.2
	Di (2-ethylhexyl) adipate	<0.00060	mg/L	EPA 525.2
	Endrin	<0.00022	mg/L	EPA 525.2
	Dieldrin	<0.00010	mg/L	EPA 525.2
	Butachlor	<0.00010	mg/L	EPA 525.2
	Heptachlor epoxide	<0.00010	mg/L	EPA 525.2
	Aldrin	<0.00010	mg/L	EPA 525.2
	Heptachlor	<0.000080	mg/L	EPA 525.2
	Metribuzin	<0.00020	mg/L	EPA 525.2
	Lindane	<0.00010	mg/L	EPA 525.2
	Atrazine	<0.00022	mg/L	EPA 525.2
	Simazine	<0.00015	mg/L	EPA 525.2
	Hexachlorobenzene	<0.00020	mg/L	EPA 525.2
	Propachlor	<0.00010	mg/L	EPA 525.2
	Hexachlorocyclopentadiene	<0.00022	mg/L	EPA 525.2
	Metolachlor	<0.00010	mg/L	EPA 525.2

Sample Comments:

**PFAS by LC/MS/MS**

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA16090-006</b>
Description: <b>G43201 well 6</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/16/2020 1258</b>	
Date Received: <b>01/16/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/20/2020 2227	MMM	01/19/2020 1249	42255
2	537.1	537.1	5	01/21/2020 1532	MMM	01/19/2020 1249	42255

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.7	0.34	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.7	0.42	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>4.2</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>30</b>		<b>8.4</b>	<b>1.7</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.7	0.67	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.7	0.34	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>15</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>21</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>8.3</b>		<b>1.7</b>	<b>0.67</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>29</b>		<b>1.7</b>	<b>0.34</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.7	0.34	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1	ND		1.7	0.42	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.7	0.67	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>110</b>		<b>8.4</b>	<b>1.7</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Acceptance Limits	Run 2		Acceptance Limits
	Q	% Recovery		Q	% Recovery	
13C2_PFHxA		85	70-130		93	70-130
13C3-HFPO-DA		102	50-150		96	50-150
13C6_PFDA		104	70-130		93	70-130
d5-EtFOSAA		90	70-130		84	70-130

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

# PFAS by LC/MS/MS

Client: <b>SC DHEC</b>	Laboratory ID: <b>VA28072-001</b>
Description: <b>G43201-6</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>01/28/2020 1030</b>	
Date Received: <b>01/28/2020</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	01/29/2020 2200	SES	01/29/2020 1113	43206
2	537.1	537.1	5	01/29/2020 2149	SES	01/29/2020 1113	43206

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1	ND		1.8	0.36	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1	ND		1.8	0.45	ng/L	1
<b>Perfluoro-1-butane sulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>537.1</b>	<b>4.5</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluorohexane sulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>537.1</b>	<b>40</b>		<b>8.9</b>	<b>1.8</b>	<b>ng/L</b>	<b>2</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1	ND		1.8	0.71	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1	ND		1.8	0.36	ng/L	1
<b>Perfluoro-n-heptanoic acid (PFHpA)</b>	<b>375-85-9</b>	<b>537.1</b>	<b>16</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-hexanoic acid (PFHxA)</b>	<b>307-24-4</b>	<b>537.1</b>	<b>24</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-nonanoic acid (PFNA)</b>	<b>375-95-1</b>	<b>537.1</b>	<b>8.1</b>		<b>1.8</b>	<b>0.71</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>537.1</b>	<b>30</b>		<b>1.8</b>	<b>0.36</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1	ND		1.8	0.36	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	537.1	ND		1.8	0.45	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1	ND		1.8	0.71	ng/L	1
<b>Perfluorooctane sulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>537.1</b>	<b>130</b>		<b>8.9</b>	<b>1.8</b>	<b>ng/L</b>	<b>2</b>

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_PFHxA		101		110
13C3-HFPO-DA		91		99
13C6_PFDA		107		103
d5-EtFOSAA		93		95

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit  
 ND = Not detected at or above the DL      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      J = Estimated result < LOQ and ≥ DL  
 H = Out of holding time      W = Reported on wet weight basis