APPENDIX B

Additional Corrective Action Plan Tables and Figures

APPENDIX B

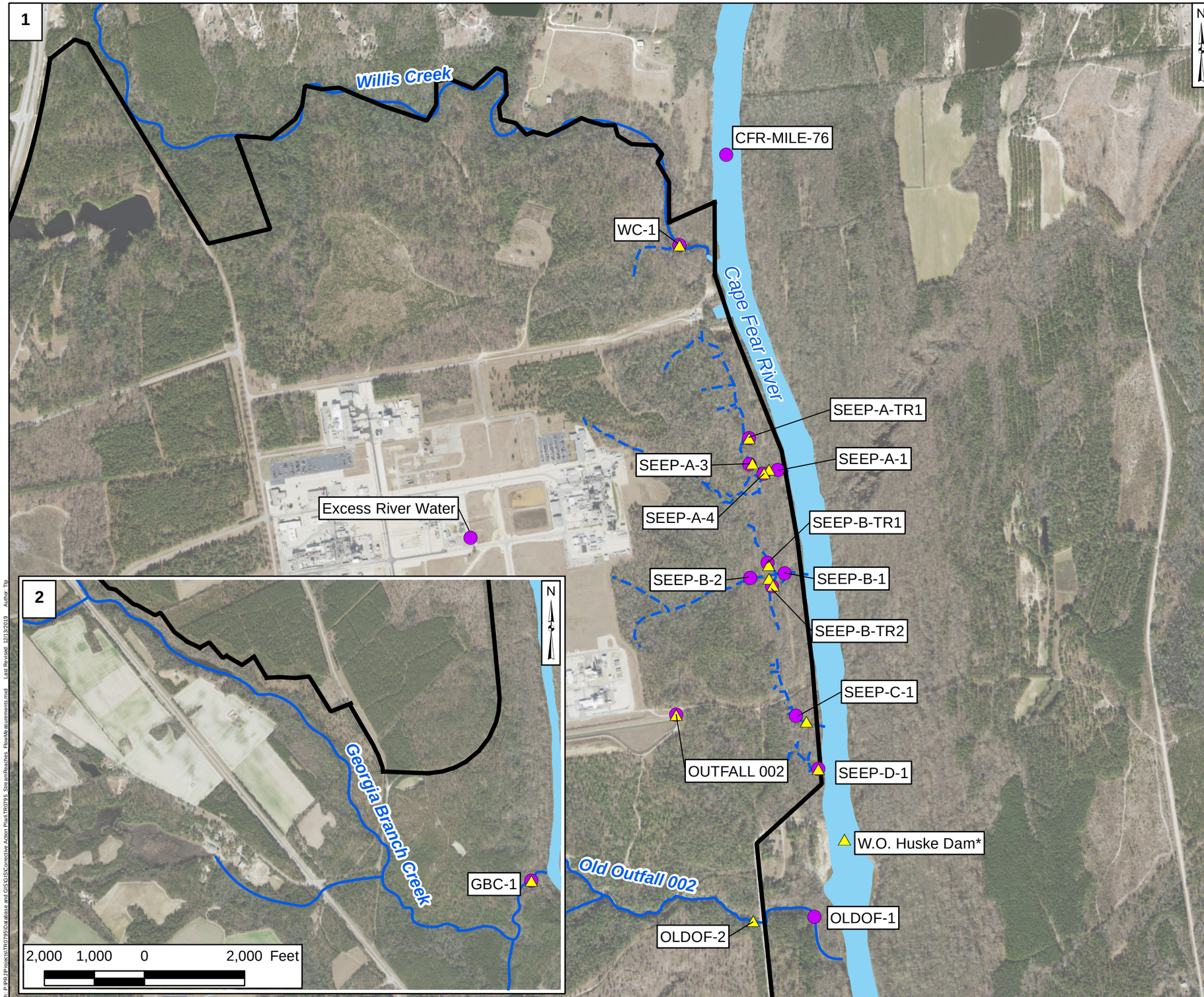
SUPPORTING TABLES, FIGURES, FIELD RECORDS AND LABORATORY REPORTS

This document presents supporting documents that include the following:

- Figure B-1A: Sample and Flow Measurement Locations September 2019 Event;
- Figure B-1B: Cape Fear River Sample Locations September 2019 Event;
- Figure B-2: Total Table 3+ Concentrations – September 2019 Event;
- Figure B-3: HFPO-DA Concentrations – September 2019 Event;
- Figure B-4: Cape Fear River Total Table 3+ Concentrations September 2019 Event;
- Figure B-5: Cape Fear River HFPO-DA Concentrations September 2019 Event;
- Table B-1: Well Development Stabilized Field Parameters;
- Table B-2: Groundwater Sampling Stabilized Field Parameters;
- Table B-3: On and Offsite Resampled Groundwater Well Analytical Results – July to November 2019;
- Table B-4: September 2019 Mass Loading Model Location Summary;
- Table B-5: Analytical Methods and Analyte List;
- Table B-6: Analytical Results;
- Records of Well Development;
- Records of Well Sampling; and
- Attachment B: Data Validation Module.

* * * * * * *

FIGURES



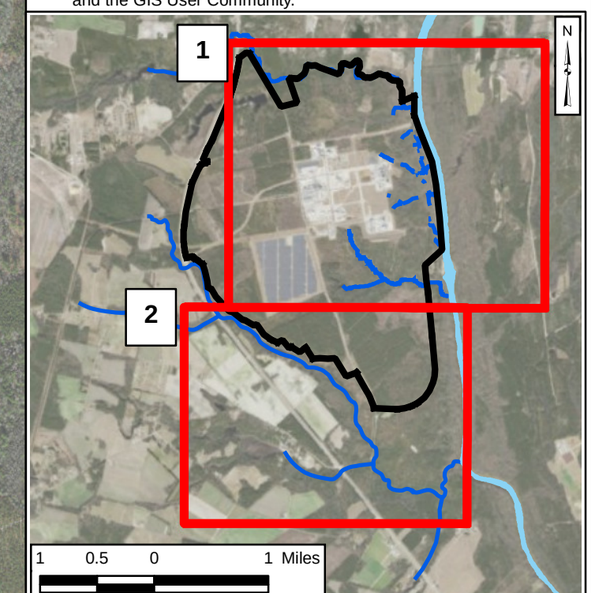
Legend

- Flow Measurement Location
- Sample Location
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:

* - Flow measurement was taken at W.O. Huske Dam - USGS Gauge Site No. 02105500

1. Flow at Old Outfall 002, Seep A, Seep B and Seep C locations were measured using flumes.
2. Flow at Seep D was measured using salt diultion.
3. Flow at Willis Creek and Georgia Branch Creek were measured using flow velocity method.
4. Results of estimated flow at these locations are provided in Table 5 and Table 7 with supplemental flow measurement data included in Appendix B.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
6. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



1,000 500 0 1,000 Feet

Sample and Flow Measurement Locations
September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
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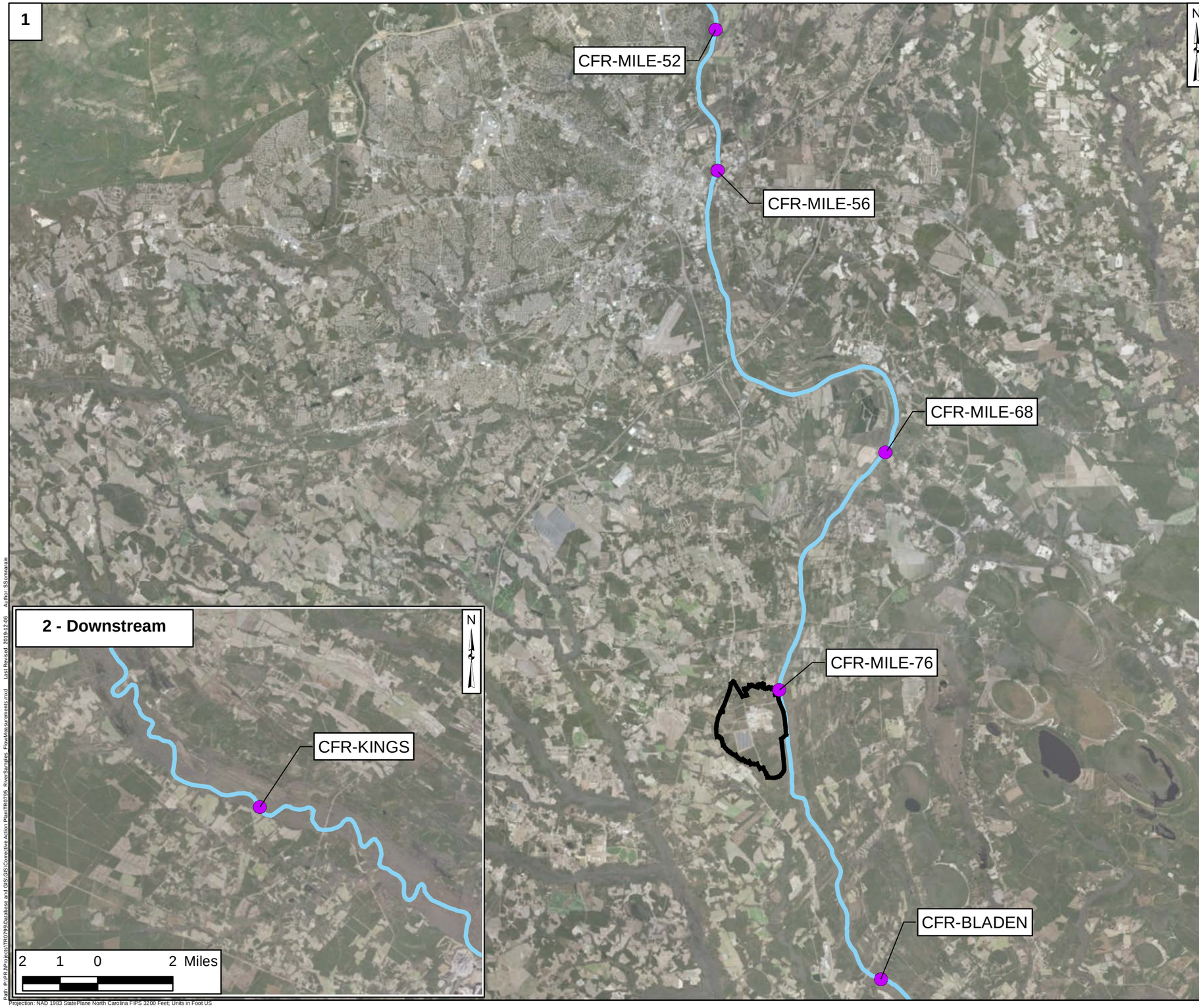
Raleigh | December 2019

Figure **B-1A**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Corrective Action Plan\TR0795_StreamReaches_FlowMeasurements.mxd Last Revised: 12/13/2019 Author: Tlp

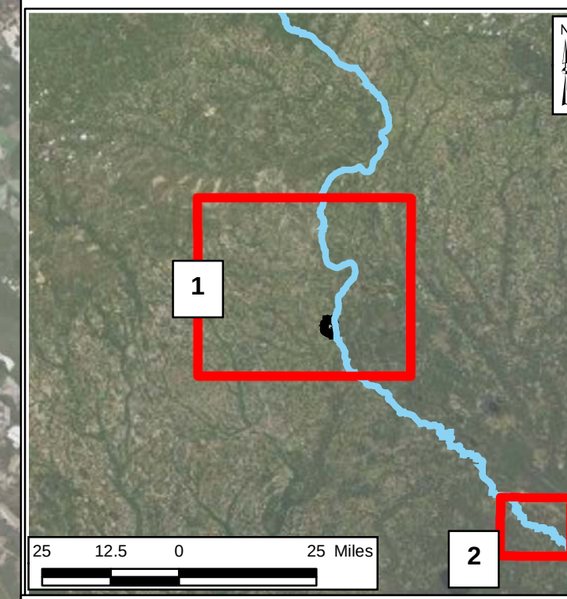
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US



Legend

- Sample Location
- Site Boundary
- Cape Fear River

Notes:
1. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



2 1 0 2 Miles

Cape Fear River Sample Locations
September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
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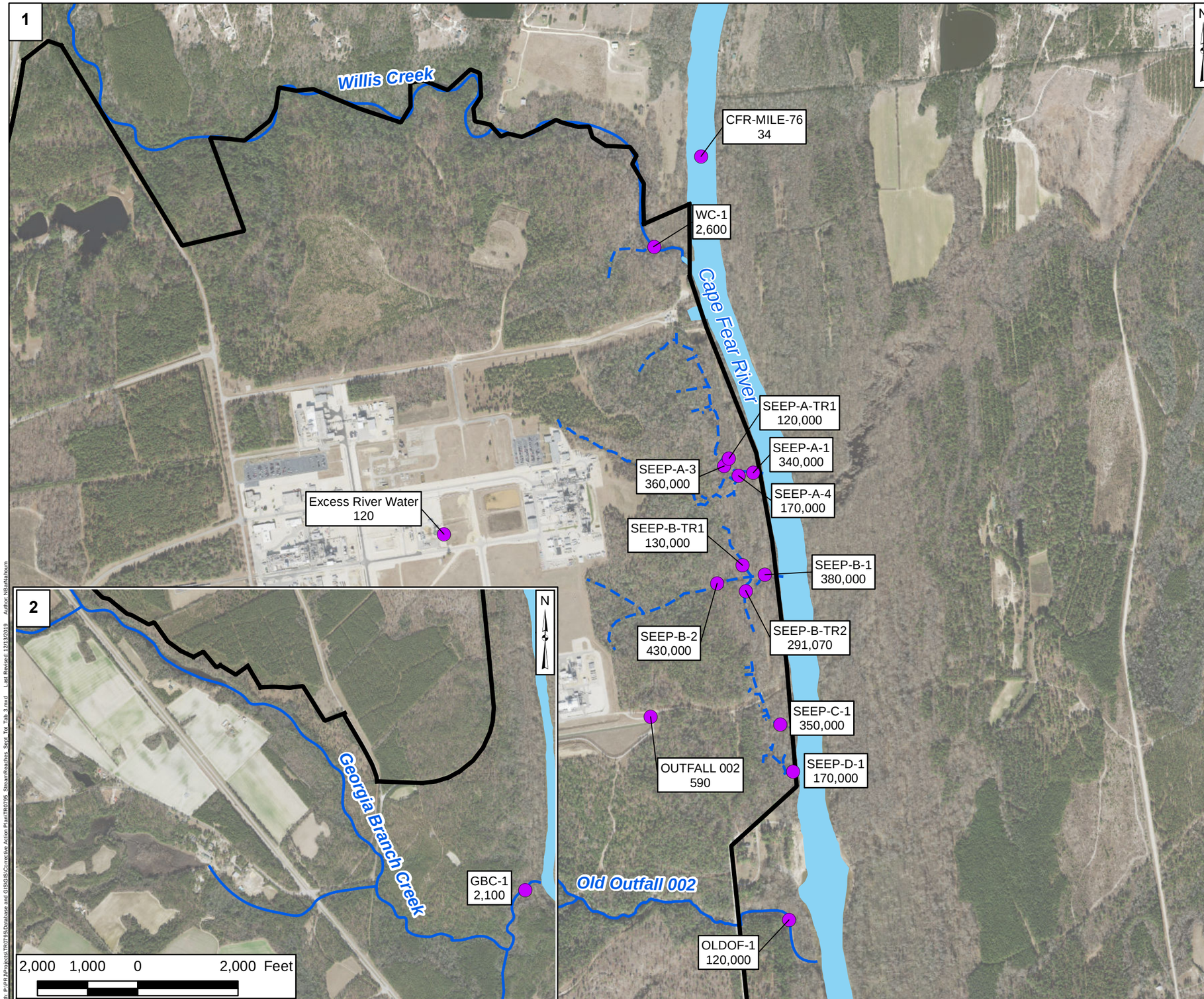
Figure
B-1B

Path: P:\PR\J\Projects\TR0795\Database and GIS\GIS\Corrective Action Plan\TR0795_RiverSamples_FlowMeasurements.mxd Last Revised: 2019-12-06 Author: SSomnavan

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

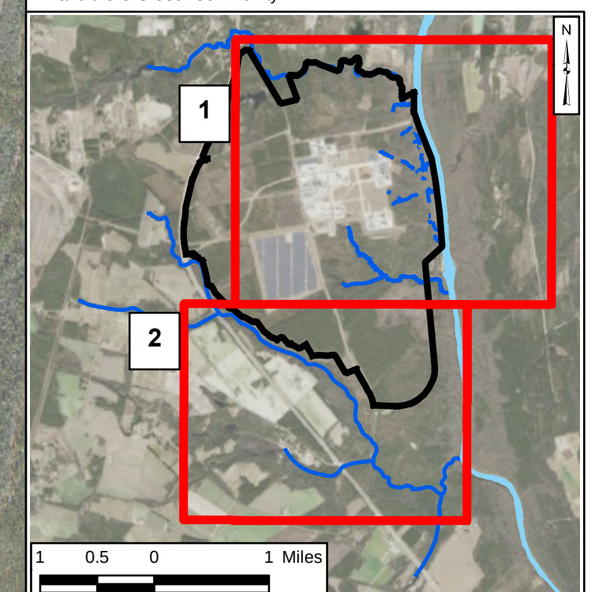


Legend

- Sample Location
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:
HFPO-DA - hexafluoropropylene oxide dimer acid

1. All results are in nanograms per liter.
2. HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
6. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



1,000 500 0 1,000 Feet

Total Table 3+ Concentrations – September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
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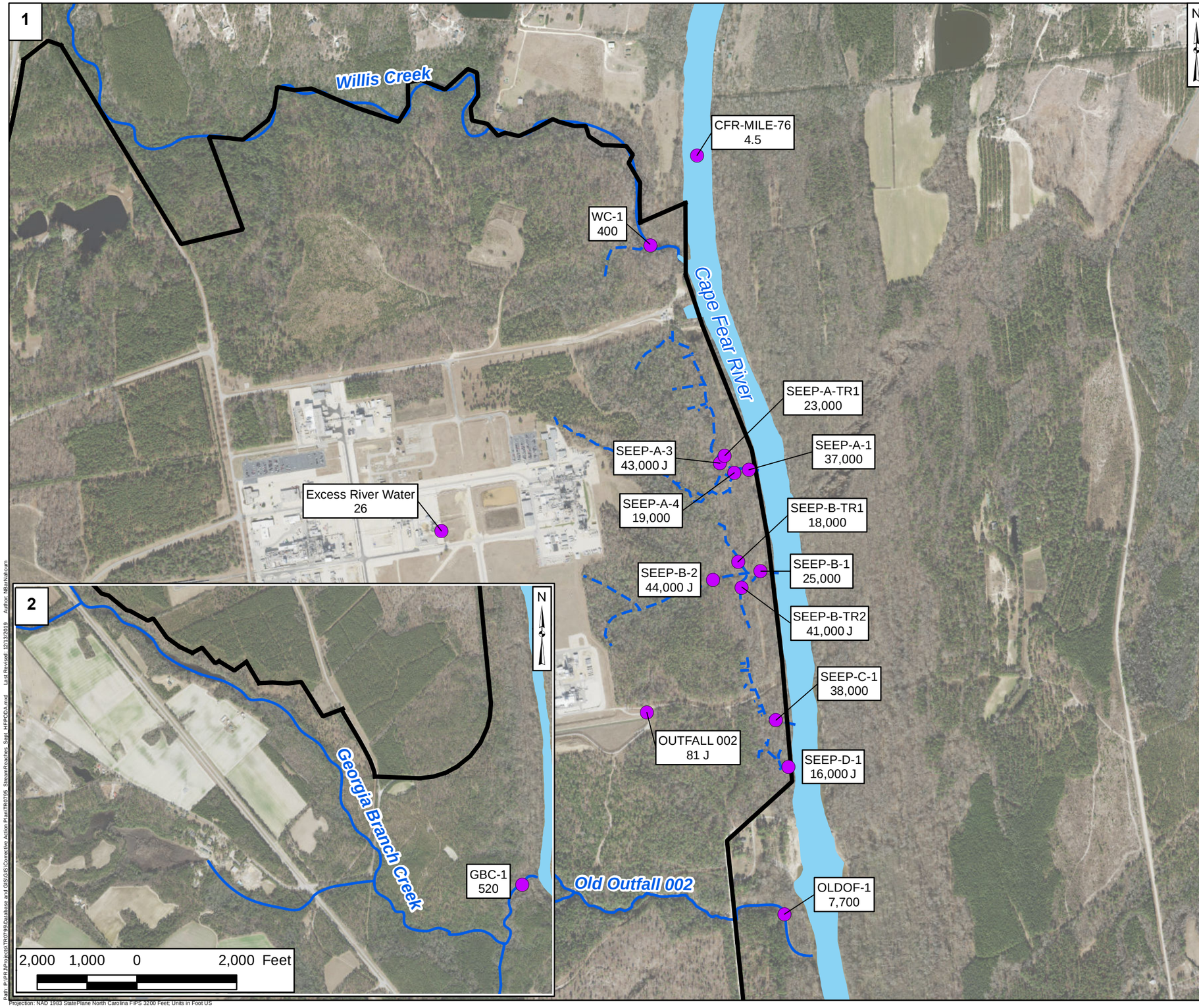
Figure **B-2**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Corrective Action Plan\TR0795_StreamReaches_Sept_Tot_Tab_3.mxd Last Revised: 12/13/2019 Author: NBarbulescu

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

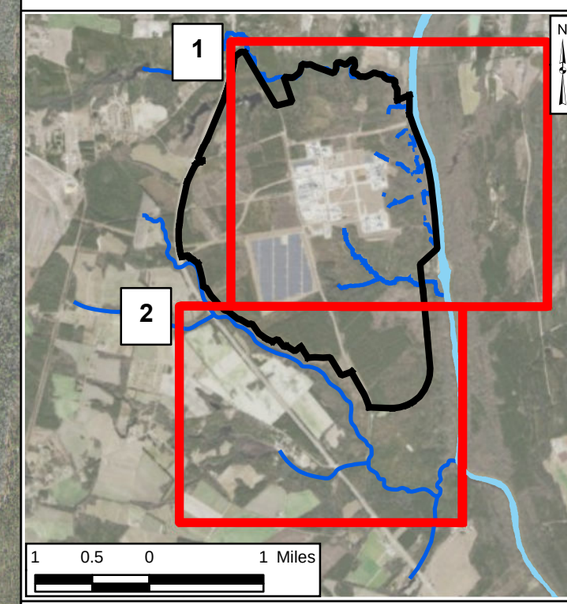


Legend

- Sample Location
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:
J - estimate value
HFPO-DA - hexafluoropropylene oxide dimer acid

1. All results are in nanograms per liter.
2. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
3. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



1,000 500 0 1,000 Feet

HFPO-DA Concentrations – September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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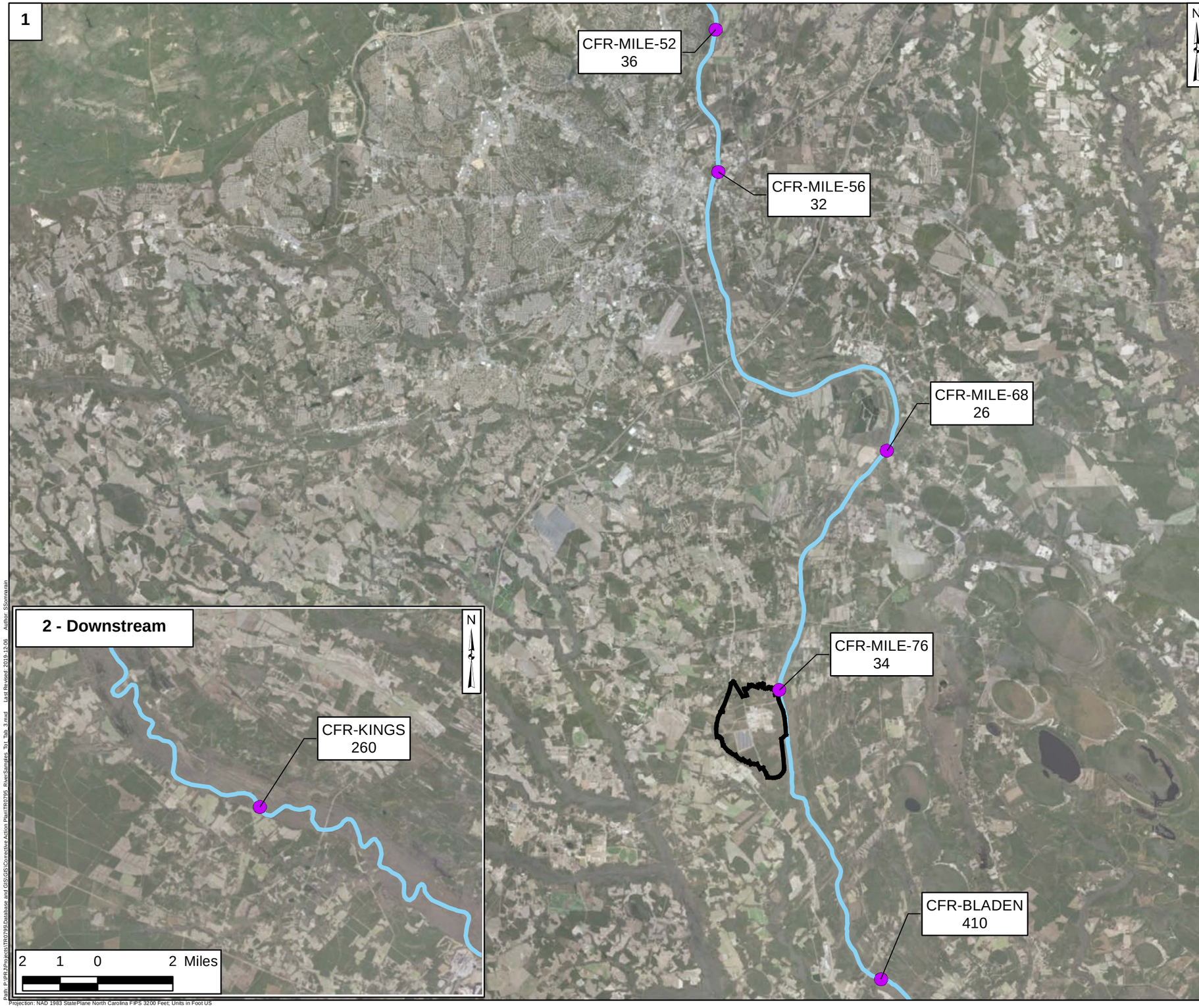
Figure **B-3**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Corrective Action Plan\TR0795_StreamReaches_Sept_HFPODA.mxd Last Revised: 12/13/2019 Author: NBarNatkurn

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

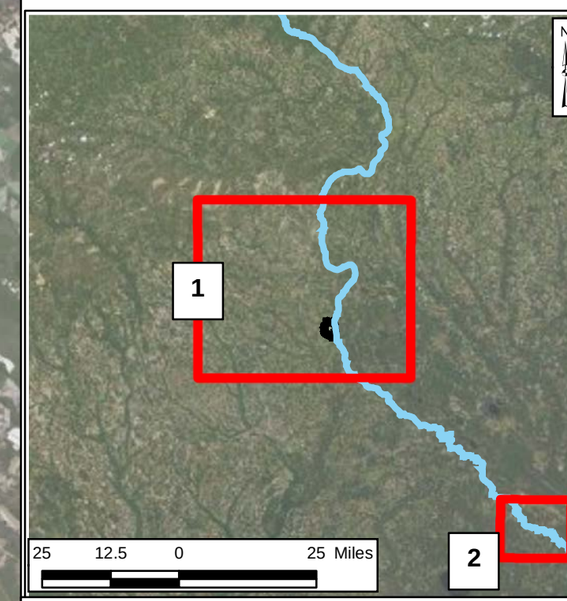


Legend

- Sample Location
- Site Boundary
- Cape Fear River

Notes:
HFPO-DA - hexafluoropropylene oxide dimer acid

1. All results are in nanograms per liter.
2. HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.
5. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



2 1 0 2 Miles

Cape Fear River Total Table 3+ Concentrations
September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
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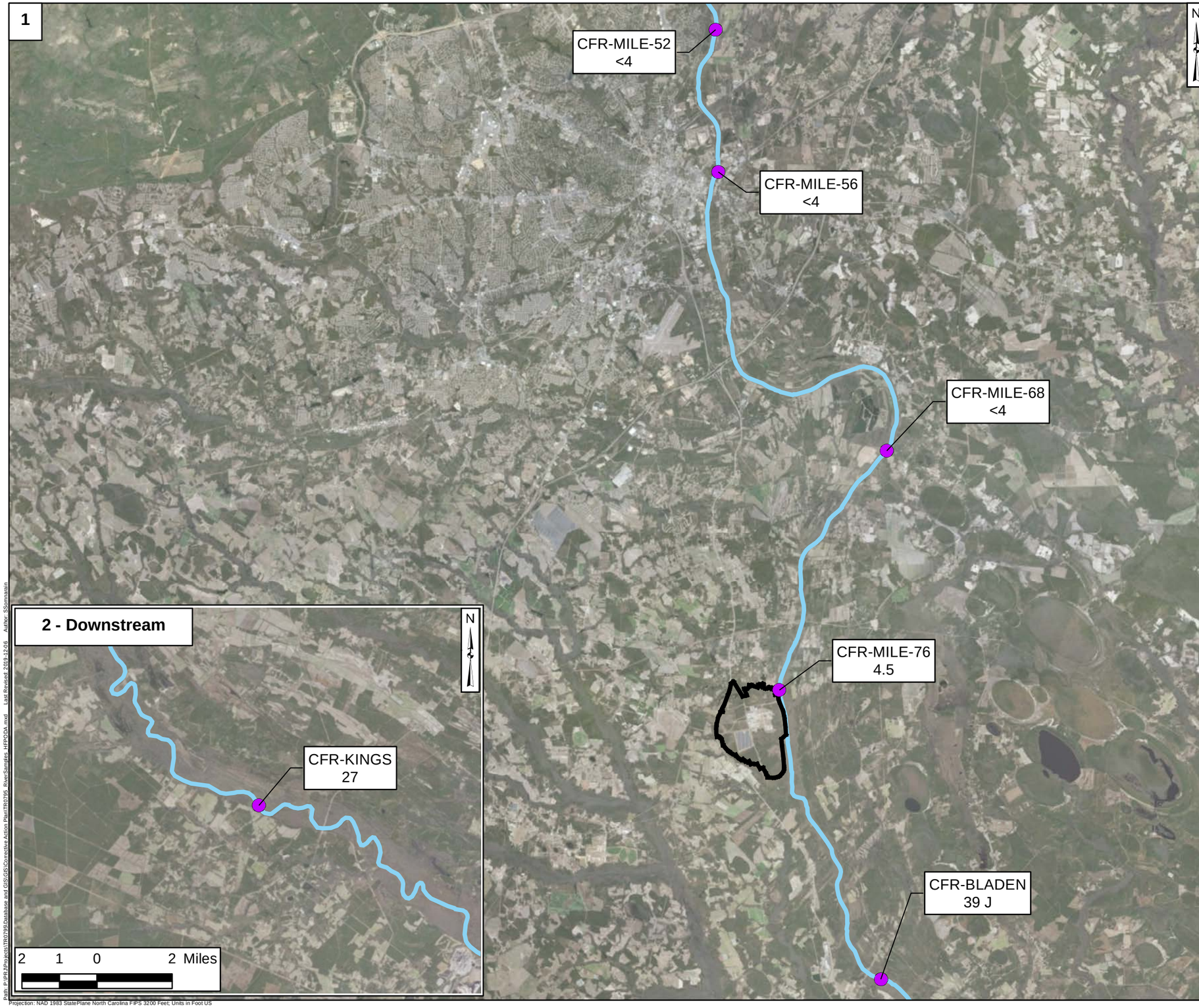
Figure
B-4

Path: P:\PR\JProjects\TR0795\Database and GIS\GIS\Corrective Action Plan\TR0795_RiverSamples_Tot_Tab_3.mxd Last Revised: 2019-12-06 Author: SSomma.nan

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

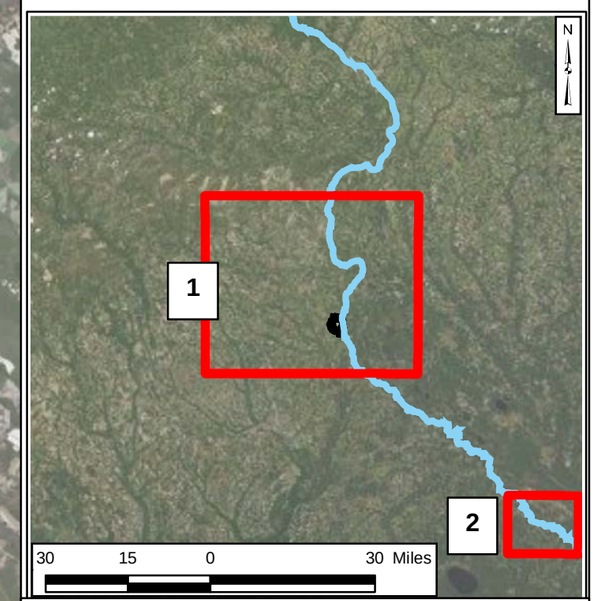


Legend

- Sample Location
- Site Boundary
- Cape Fear River

Notes:
< - non-detect
J - estimated value

HFPO-DA - hexafluoropropylene oxide dimer acid
1. All results are in nanograms per liter.
2. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



2 1 0 2 Miles

Cape Fear River HFPO-DA Concentrations
September 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2019

Figure
B-5

Path: P:\PR\J\Projects\TR0799\Database and GIS\GIS\Corrective Action Plan\TR0795_RiverSamples_HFPODA.mxd Last Revised: 2019-12-06 Author: SSomnarain

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

TABLES

TABLE B-1
WELL DEVELOPMENT STABILIZED FIELD PARAMETERS
Chemours Fayetteville Works, North Carolina

Well ID	Date	pH	DO (mg/L)	ORP (mV)	Turbididty (NTU)	Spec. Cond. (mS/cm)	Temp. (°C)
Onsite Wells							
PIW-2D	10/31/2019	5.76	5.91	124.4	29	0.071	19.2
PIW-4D	10/22/2019	6.29	1.77	68.1	28.2	0.05	18.42
PW-02	10/23/2019	4.32	4.48	312.7	119	0.12	18.95
PW-03	10/23/2019	5.37	1.07	37	999	0.38	21.99
PW-04	10/28/2019	4.01	0.84	297.1	17.4	0.433	19.7
PW-07	10/28/2019	7.51	5.98	271.9	61.5	0.09	18.3
PW-09	10/18/2019	7.27	1.75	-36.9	127	0.09	17.51
PW-10R	10/23/2019	5.73	0.1	20.2	35.4	0.07	18.01
PW-12	10/31/2019	5.92	7.02	85.1	21.7	0.051	18.3
PW-13	11/5/2019	6.11	0.19	5.3	45.4	0.05	19.32
PW-15R	10/30/2019	5.98	19.51	198	4.91	0.014	18.8
Offsite Wells							
CUMBERLAND-2D	10/22/2019	6.17	3.38	-11.8	31.1	0.06	20.03
CUMBERLAND-4S	10/18/2019	3.47	2.52	162.1	57.8	0.05	26.11
CUMBERLAND-4D	10/18/2019	4.97	48.8	80.1	15.5	0.04	19.91
CUMBERLAND-5S	10/21/2019	5.55	1.24	-50.7	9.43	0.11	22.61
ROBENSON-1S	10/17/2019	--	--	--	--	--	--
ROBENSON-1D	10/17/2019	4.98	44.3	102	19.3	0.06	19.99

Notes:

1. Stabilized field parameters following well development completion reported here.
2. Well development forms included in Appendix B of this report.

Abbreviations:

DO - Dissolved Oxyg mS/cm - milli Siemens per centimeter

ORP - Oxidation Red °C - degree celsius

Spec. Cond. - Specific Conductivity

Temp. - Temperature

mg/L - milligrams per liter

mV - millivolts

NTU - Nephelometric Turbidity Units

TABLE B-2
GROUNDWATER SAMPLING STABILIZED FIELD PARAMETERS
Chemours Fayetteville Works, North Carolina

Well ID	Sampling Date	Sample Time	Field Sample ID	pH	DO (mg/L)	ORP (mV)	Turbididty (NTU)	Spec. Cond. (mS/cm)	Temp. (°C)
Onsite Wells									
PIW-1D	10/29/2019	12:10	GW4Q19-PIW-1D-102919	3.4	0.63	290	6	0.17	18
PIW-2D	11/1/2019	11:15	GW4Q19-PIW-2D-110119	5.8	0.43	45	16	0.07	17
PIW-3D	10/28/2019	16:35	GW4Q19-PIW-3D-102819	4	0.76	-91	8.7	0.1	18
PIW-4D	10/31/2019	13:25	GW4Q19-PIW-4D-103119	7.5	0.6	32	61	0.06	20
PIW-5S	10/29/2019	11:40	GW4Q19-PIW-5S-102919	3.7	2.9	440	11	0.13	19
PIW-6S	10/29/2019	13:30	GW4Q19-PIW-6S-102919	4.6	0.55	210	14	0.094	18
PIW-7S	10/30/2019	12:00	GW4Q19-PIW-7S-103019	6.1	0.31	5.3	3.9	0.15	19
PIW-7D	10/30/2019	11:15	GW4Q19-PIW-7D-103019	4.3	0.29	100	0.71	0.09	19
PIW-8D	10/30/2019	13:30	GW4Q19-PIW-8D-103019	4	0.65	190	1	0.2	18
PIW-9D	10/23/2019	11:20	GW4Q19-PIW-9D-102319	4.7	0	170	0	0.14	17
PIW-9S	10/23/2019	12:40	GW4Q19-PIW-9S-102319	4	0.33	11	1.3	0.11	18
PIW-10DR	10/30/2019	15:50	GW4Q19-PIW-10DR-103019	5.5	0.24	17	6.9	0.17	19
PIW-10S	10/29/2019	15:10	GW4Q19-PIW-10S-102919	4	3.8	200	1.1	0.05	19
PW-01	10/18/2019	13:40	GW4Q19-PW-01-101819	4.7	5	250	1.1	0.06	22
PW-02	11/4/2019	16:10	GW4Q19-PW-02-110419	4.7	6.7	240	130	0.11	19
PW-03	11/6/2019	12:50	GW4Q19-PW-03-110619	5.4	0.75	-140	1000	0.21	19.00
PW-04	10/30/2019	10:00	GW4Q19-PW-04-103019	4	0.84	300	12	0.43	20.00
PW-05	10/30/2019	10:00	GW4Q19-PW-05-103019	3.9	4.9	400	3.5	0.08	19
PW-06	10/29/2019	15:20	GW4Q19-PW-06-102919	5.1	3.3	220	1.4	0.067	19
PW-07	11/8/2019	9:30	GW4Q19-PW-07-110819	6	5.3	320	83	0.09	21
PW-09	10/30/2019	13:35	GW4Q19-PW-09-103019	9.5	0.05	-130	68	0.13	19
PW-10R	11/4/2019	13:40	GW4Q19-PW-10R-110419	5.4	0.12	43	5	0.06	18
PW-11	10/22/2019	16:25	GW4Q19-PW-11-102219	4.4	0.00	120	0.00	0.5	19
PW-12	11/5/2019	13:20	GW4Q19-PW-12-110519	5.6	0.00	-150	18	0.05	19
PW-13	11/8/2019	15:00	GW4Q19-PW-13-110819	6.4	1.2	-17	97	0.1	17
PW-14	10/23/2019	13:55	GW4Q19-PW-14-102319	4.7	0.00	170	0.00	0.18	23
PW-15R	11/6/2019	14:30	GW4Q19-PIW-15R-110619	5.1	3.2	150	13	0.15	19
Offsite Wells									
BLADEN-1D	11/7/2019	14:31	GW4Q19-BLADEN-1D-110719	7.1	0.54	-51	13	0.13	23
BLADEN-2S	10/22/2019	12:30	GW4Q19-BLADEN-2S-102219	6.1	0.44	-34	6.6	0.07	25
BLADEN-2D	10/29/2019	12:55	GW4Q19-BLADEN-2D-102919	6	0.09	32	28	0.05	21
BLADEN-3S	10/28/2019	12:05	GW4Q19-BLADEN-3S-102819	5.3	5	120	0.62	0.02	25
BLADEN-3D	10/28/2019	14:30	GW4Q19-BLADEN-3D-102819	5.9	0.2	31	15	0.08	22
BLADEN-4S	10/22/2019	16:50	GW4Q19-BLADEN-4S-102219	5.7	0.55	-43	22	0.07	27
BLADEN-4D	10/25/2019	12:45	GW4Q19-BLADEN-4D-102519	6.3	0.02	-76	5.5	0.42	22
CUMBERLAND-1S	10/24/2019	10:08	GW4Q19-CUMBERLAND-1S-102419	4.6	6.2	320	1	0.11	23
CUMBERLAND-1D	10/24/2019	10:55	GW4Q19-CUMBERLAND-1D-102419	5.2	0.34	-130	14	0.13	21
CUMBERLAND-2S	10/23/2019	12:00	GW4Q19-CUMBERLAND-2S-102319	5.1	3.6	220	1.2	0.07	23
CUMBERLAND-2D	10/25/2019	12:25	GW4Q19-CUMBERLAND-2D-102519	6.8	0.09	-490	20	0.08	22
CUMBERLAND-3S	10/22/2019	15:51	GW4Q19-CUMBERLAND-3D-102219	6.4	1.9	-62	8.8	0.18	24
CUMBERLAND-3D	10/23/2019	10:37	GW4Q19-CUMBERLAND-3D-102319	7.6	1.1	-230	3.8	0.23	21
CUMBERLAND-4S	10/25/2019	13:57	GW4Q19-CUMBERLAND-4S-102519	4.1	0.41	170	10	0.05	27
CUMBERLAND-4D	10/24/2019	14:25	GW4Q19-CUMBERLAND-4D-102419	5.4	0.34	71	18	0.04	23

TABLE B-2
GROUNDWATER SAMPLING STABILIZED FIELD PARAMETERS
Chemours Fayetteville Works, North Carolina

Well ID	Sampling Date	Sample Time	Field Sample ID	pH	DO (mg/L)	ORP (mV)	Turbididty (NTU)	Spec. Cond. (mS/cm)	Temp. (°C)
CUMBERLAND-5S	10/23/2019	14:32	GW4Q19-CUMBERLAND-5S-102319	5.5	1.3	20	4.8	0.12	24
ROBENSON-1S	10/31/2019	13:15	GW4Q19-ROBENSON-1S-103119	5.5	2.8	160	5.1	0.08	25
ROBENSON-1D	10/31/2019	11:35	GW4Q19-ROBENSON-1D-103119	6.4	0.13	-100	17	0.08	22

Notes:
1. PIW-1S and Bladen-1S were dry at the time of sampling
2. Duplicate samples collected at PIW-4D, Cumberland-1D and PW-15R
3. Stabilized field parameters following well purging reported here.
4. Well purging and groundwater sampling forms included in Appendix B of this report.

Abbreviations:
DO - Dissolved Oxygen
ORP - Oxidation Reduction Potential
Spec. Cond. - Specific Conductivity
Temp. - Temperature
mg/L - milligrams per liter
mV - millivolts
NTU - Nephelometric Turbidity Units

TABLE B-3
ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PIW-10DR	PIW-10DR	PIW-10S	PIW-10S	PIW-1D	PIW-1D	PIW-1D	PIW-2D	PIW-2D
Field Sample ID	PIW-10DR-091019	GW4Q19-PIW-10DR-103019	GW0619-PIW-10S	GW4Q19-PIW-10S-102919	GW0619-PIW-1D	GW0619-PIW-1D-D	GW4Q19-PIW-1D-102919	PIW-2D-091219	GW4Q19-PIW-2D-110119
Sample Date	9/10/2019	10/30/2019	7/22/2019	10/29/2019	7/19/2019	7/19/2019	10/29/2019	9/12/2019	11/1/2019
QA/QC	--	--	--	--	--	DUP	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-54176-1	320-55860-1	320-52621-1	320-55854-1	320-52621-1	320-52621-1	320-55854-1	320-54314-1	320-56112-1
Lab Sample ID	320-54176-1	320-55860-2	320-52621-3	320-55854-9	320-52621-1	320-52621-2	320-55854-4	320-54314-2	320-56112-3
Table 3+ SOP (ng/L)									
HFPO-DA	**19,000**	**15,000**	**4,400**	**3,600**	**11,000 J**	**8,700 J**	**9,500**	**1,800**	**1,600**
PFMOAA	**45,000**	**47,000**	**1,500**	**1,800**	**14,000**	**15,000**	**14,000**	**14,000**	**19,000**
PFO2HxA	**19,000**	**19,000**	**3,000**	**2,400**	**9,700**	**9,700**	**8,200**	**2,900**	**3,500**
PFO3OA	**6,000**	**6,500**	**520**	**450**	**1,800**	**1,800**	**1,300**	**100**	**140**
PFO4DA	**1,200 J**	**1,200**	**210**	**160**	**300**	**320**	**260**	<79	<16
PFO5DA	<34 UJ	<34	<34	**17**	<34	<34	<6.7	<34	<6.7
PMPA	**9,100**	**10,000**	**5,700**	**5,700**	**9,900**	**10,000**	**9,300**	**1,300**	**1,100**
PEPA	**3,400**	**3,600**	**2,100**	**1,900**	**3,600**	**3,600**	**2,900**	**92**	**76**
PFESA-BP1	<27	<27	<27	<2.7	<27	<27	<5.3	<27	<5.3
PFESA-BP2	**160 J**	**200**	**150**	**93**	**48**	**51**	**52**	<30	<6.1
Byproduct 4	**1,500**	**1,200**	**190**	**200**	**420**	**480**	**400**	<160	**44**
Byproduct 5	**6,400 J**	**5,600**	<58	<5.8	<58	<58	<12	<58	**16**
Byproduct 6	**15**	**18**	<15	<2	<15	<15	<3.1	<15	<3.1
NVHOS	**510**	**490**	<54	**22**	**150**	**160**	**130**	**110 J**	**140**
EVE Acid	<24	<24	<24	<2.4	<24	<24	<4.9	<24	<4.9
Hydro-EVE Acid	**790 J**	**870**	<28	**12**	**37**	**33**	**30**	<28	<5.6
R-EVE	**1,200**	**980 J**	**130**	**110**	**290 J**	**350 J**	**270**	<70	**40 J**
PES	<46	<46	<46	<4.6	<46	<46	<9.2	<46	<9.2
PFECA B	<60	<60	<60	<6	<60	<60	<12	<60	<12
PFECA-G	<41	<41	<41	<4.1	<41	<41	<8.2	<41	<8.2
Total Table 3+ Lab SOP*	**110,000**	**110,000**	**18,000**	**16,000**	**51,000**	**50,000**	**46,000**	**20,000**	**26,000**

Notes:

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ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Floodplain Deposits
Location ID	PIW-3D	PIW-3D	PIW-4D	PIW-4D	PIW-4D	PIW-5S	PIW-5S	PIW-6S
Field Sample ID	GW0619-PIW-3D	GW4Q19-PIW-3D-102819	PIW-04D-091119	GW4Q19-PIW-4D-103119	GW4Q19-PIW-4D-103119-Dup	GW0619-PIW-5S	GW4Q19-PIW-5S-102919	GW0619-PIW-6S
Sample Date	7/18/2019	10/28/2019	9/11/2019	10/31/2019	10/31/2019	7/19/2019	10/29/2019	7/17/2019
QA/QC	--	--	--	--	DUP	--	--	--
Sample Matrix	LIQUID	LIQUID	Liquid	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52464-1	320-55757-1	320-54317-1	320-55909-1	320-55909-1	320-52624-1	320-55854-1	320-52454-1
Lab Sample ID	320-52464-2	320-55757-6	320-54317-2	320-55909-1	320-55909-2	320-52624-5	320-55854-2	320-52454-5
Table 3+ SOP (ng/L)								
HFPO-DA	**9,600**	**11,000**	**6.7**	**3.6 B**	**2.9 B**	**79,000 J**	**41,000**	**13,000**
PFMOAA	**5,400**	**5,200**	<210	<5	<5	**35,000**	**61,000**	**160,000**
PFO2HxA	**9,100**	**7,900**	<81	**2.3**	**2.1**	**38,000**	**33,000**	**35,000**
PFO3OA	**1,700**	**1,400**	<58	<2	<2	**10,000**	**7,600**	**5,000**
PFO4DA	**780**	**700**	<79	<2	<2	**8,700**	**4,700**	**150**
PFO5DA	**95**	**97**	<34	<2	<2	**4,800**	**1,900**	<34
PMPA	**12,000**	**10,000**	<570	<10	<10	**100,000**	**76,000**	**8,700**
PEPA	**4,400**	**3,600**	<47	<20	<20	**44,000**	**31,000**	**2,300**
PFESA-BP1	<2.7	<5.3	<27	<2	<2	**4,300**	**1,300**	<27
PFESA-BP2	**150**	**140**	<30	<2	<2	**1,300**	**580**	**31**
Byproduct 4	**500**	**390**	<160	<2	<2	**4,700**	**2,900**	**470**
Byproduct 5	<5.8	<12	<58	<2	<2	**16,000**	**5,000**	**1,700**
Byproduct 6	**5.1**	**5.2**	<15	<2	<2	**65**	**41**	<15
NVHOS	**83**	**72**	<54	<2	<2	**770**	**680**	**1,100**
EVE Acid	<2.4	<4.9	<24	<2	<2	**1,800**	**570**	<24
Hydro-EVE Acid	**52**	**48**	<28	<2	<2	**1,600**	**820**	**43**
R-EVE	**290**	**220 J**	<70	<2 UJ	<2 UJ	**3,000**	**2,700**	**490**
PES	<4.6	<9.2	<46	<2	<2	<46	<46	<46
PFECA B	<6	<12	<60	<2	<2	<60	<60	<60
PFECA-G	<4.1	<8.2	<41	<2	<2	<41	<41	<41
Total Table 3+ Lab SOP*	**44,000**	**41,000**	**6.7**	**5.9**	**5.0**	**350,000**	**270,000**	**230,000**

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Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PIW-6S	PIW-7D	PIW-7D	PIW-7S	PIW-7S	PIW-8D	PIW-8D	PIW-9D
Field Sample ID	GW4Q19-PIW-6S-102919	GW0619-PIW-7D	GW4Q19-PIW-7D-103019	GW0619-PIW-7S	GW4Q19-PIW-7S-103019	GW0619-PIW-8D	GW4Q19-PIW-8D-103019	GW0619-PIW-9D
Sample Date	10/29/2019	7/19/2019	10/30/2019	7/19/2019	10/30/2019	7/19/2019	10/30/2019	7/23/2019
QA/QC	--	--	--	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55854-1	320-52624-1	320-55860-1	320-52624-1	320-55860-1	320-52624-1	320-55860-1	320-52722-1
Lab Sample ID	320-55854-3	320-52624-3	320-55860-10	320-52624-4	320-55860-1	320-52624-2	320-55860-9	320-52722-1
Table 3+ SOP (ng/L)								
HFPO-DA	**10,000**	**11,000**	**9,400**	**1,400**	**6,600**	**54,000 J**	**65,000**	**33,000**
PFMOAA	**190,000**	**150,000**	**170,000**	**12,000**	**31,000**	**400,000**	**400,000**	**150,000**
PFO2HxA	**33,000**	**27,000**	**27,000**	**2,400**	**8,000**	**140,000**	**110,000**	**41,000**
PFO3OA	**4,400**	**2,400**	**2,900**	**180**	**1,500**	**51,000**	**45,000**	**12,000**
PFO4DA	<160	**570**	**590**	<79	**96**	**7,200**	**6,700**	**3,100**
PFO5DA	<67	<34	<34	<34	<34	<340	<130	**84**
PMPA	**9,000**	**3,500**	**3,300**	**1,100**	**3,800**	**15,000**	**15,000**	**9,900**
PEPA	**2,300**	**530**	**510**	<47	**1,200**	**4,500**	**4,200**	**3,400**
PFESA-BP1	<53	<27	<27	<27	<27	<270	<110	**29**
PFESA-BP2	<61	**53**	**67**	<30	**77**	**770**	**860**	**370**
Byproduct 4	**720**	**280**	**300**	<160	**740**	**4,400**	**3,300 J**	**1,900 J**
Byproduct 5	**1,900**	**690**	**560**	<58	<58	**10,000**	**7,200**	**2,700**
Byproduct 6	<31	<15	<15	<15	<15	<150	**120**	**18**
NVHOS	**1,100**	**810**	**830**	**88**	**350**	**3,600**	**3,200**	**1,700**
EVE Acid	<49	<24	<24	<24	<24	<240	<97	<24
Hydro-EVE Acid	<56	**170 J**	**200**	<28	**110**	**3,700**	**3,900**	**1,600**
R-EVE	**610**	**350 J**	**380**	**130**	**810**	**4,500**	**4,900**	**1,700**
PES	<92	<46	<46	<46	<46	<460	<180	<46
PFECA B	<120	<60	<60	<60	<60	<600	<240	<60
PFECA-G	<82	<41	<41	<41	<41	<410	<160	<41
Total Table 3+ Lab SOP*	**250,000**	**200,000**	**220,000**	**17,000**	**54,000**	**700,000**	**670,000**	**260,000**

Notes:

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ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Perched Zone	Perched Zone	Perched Zone	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PIW-9D	PIW-9S	PIW-9S	PW-01	PW-01	PW-01	PW-02	PW-02	PW-03
Field Sample ID	GW4Q19-PIW-9D-102319	GW0619-PIW-9S	GW4Q19-PIW-9S-102319	PW-01-090919	PW-01-090919-D	GW4Q19-PW-01-101819	PW-02-091119	GW4Q19-PW-02-110419	PW-03-091119
Sample Date	10/23/2019	7/18/2019	10/23/2019	9/9/2019	9/9/2019	10/18/2019	9/11/2019	11/4/2019	9/11/2019
QA/QC	--	--	--	--	DUP	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55683-1	320-52464-1	320-55683-1	320-54217-1	320-54217-1	320-55686-1	320-54274-1	320-56112-1	320-54317-1
Lab Sample ID	320-55683-3	320-52464-1	320-55683-6	320-54217-1	320-54217-2	320-55686-1	320-54274-1	320-56112-7	320-54317-1
Table 3+ SOP (ng/L)									
HFPO-DA	**20,000**	**7,300**	**9,700**	**8,300**	**7,500**	**7,500**	**7,400**	**7,800**	**78,000**
PFMOAA	**200,000**	**150,000**	**190,000**	**25,000**	**23,000**	**23,000**	**9,500,000**	**89,000**	**5,900**
PFO2HxA	**40,000**	**34,000**	**35,000**	**10,000**	**9,400**	**10,000**	**2,800,000**	**22,000**	**18,000**
PFO3OA	**11,000**	**8,400**	**8,300**	**2,000 J**	**1,900**	**2,300**	**750,000**	**6,200**	**5,800**
PFO4DA	**2,300**	**1,500**	**1,400**	**1,000 J**	**960**	**1,200**	**250,000**	**2,300**	**1,800**
PFO5DA	<170	<34	<34	**660 J**	**540**	**930**	**90,000**	**950**	**46**
PMPA	**8,500**	**7,500**	**7,500**	**4,100 J**	**3,600**	**3,800**	**470,000**	**4,200**	**130,000**
PEPA	**3,000**	**2,700**	**2,500**	**1,300**	**1,200**	**1,300**	**180,000**	**1,500**	**76,000**
PFESA-BP1	<130	<27	<27	**490**	**410**	**480**	**35,000**	**480**	**130**
PFESA-BP2	**330**	**170**	**200**	**490 J**	**400**	**530**	**43,000**	**550**	**750**
Byproduct 4	<790	**800**	**960**	**610**	**470**	**410**	**75,000**	**740**	**11,000**
Byproduct 5	**1,900 J**	**800**	**1,000**	**900 J**	**880 J**	**700 J**	**250,000**	**3,000**	**47,000**
Byproduct 6	<77	<15	<15	<15	<15	**13**	**1,900**	**20**	**93**
NVHOS	**1,700**	**1,500**	**1,700**	**280 J**	**270**	**270**	**110,000**	**970**	**8,000**
EVE Acid	<120	<24	<24	**110 J**	**100**	**95**	**2,200**	**25**	**520**
Hydro-EVE Acid	**1,600**	**690**	**740**	**130 J**	**110**	**120**	**18,000**	**220**	**4,900**
R-EVE	**630**	**650**	**900**	**310**	**260**	**260**	**36,000**	**580**	**12,000**
PES	<230	<46	<46	<46	<46	<9.2	<2,300	<46	<46
PFECA B	<300	<60	<60	<60	<60	<12	<3,000	<60	<60
PFECA-G	<200	<41	<41	<41	<41	<8.2	<2,000	<41	<41
Total Table 3+ Lab SOP*	**290,000**	**220,000**	**260,000**	**56,000**	**51,000**	**53,000**	**15,000,000**	**140,000**	**400,000**

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Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PW-03	PW-04	PW-04	PW-05	PW-05	PW-06	PW-06	PW-07	PW-07
Field Sample ID	GW4Q19-PW-03-110619	PW-04-091119	GW4Q19-PW-04-103019	PW-05-090919	GW4Q19-PW-05-103019	PW-06-091019	GW4Q19-PW-06-102919	PW-07-091319	GW4Q19-PW-07-110819
Sample Date	11/6/2019	9/11/2019	10/30/2019	9/9/2019	10/30/2019	9/10/2019	10/29/2019	9/13/2019	11/8/2019
QA/QC	--	--	--	--	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	Liquid	Liquid	LIQUID
SDG	320-56117-1	320-54294-1	320-55860-1	320-54174-1	320-55860-1	320-54231-1	320-55854-1	320-54328-1	320-56173-1
Lab Sample ID	320-56117-6	320-54294-4	320-55860-4	320-54174-1	320-55860-3	320-54231-1	320-55854-1	320-54328-2	320-56173-7
Table 3+ SOP (ng/L)									
HFPO-DA	**61,000**	**940**	**1,000**	**1,600**	**1,200**	**950**	**1,300**	**1,100**	**790 J**
PFMOAA	**6,300**	**270**	**360 J**	<210	**230**	<210	**250**	**400**	**310 J**
PFO2HxA	**18,000**	**770**	**950**	**730**	**690**	**510**	**690**	**1,000**	**880**
PFO3OA	**5,700**	**280**	**330**	**73**	**73**	**74**	**110**	**140**	**110**
PFO4DA	**1,700**	**66**	**70**	**130**	**120**	<79	**71**	**87**	**54**
PFO5DA	<34	<2	<2	<34 UJ	<2 UJ	<34	<2 UJ	<2	**5.7**
PMPA	**150,000**	**710**	**1,100**	**1,600**	**1,300**	**1,100**	**1,400**	**1,400**	**1,400**
PEPA	**76,000**	**310**	**450**	**430**	**410**	**380**	**490**	**440**	**380 J**
PFESA-BP1	**94**	<2	<2	<27	<2	<27	<2	<2	<2
PFESA-BP2	**800**	**8.4**	**16**	**50**	**59**	<30	**40**	**5.1**	**7.4**
Byproduct 4	**10,000**	**120**	**200 J**	<160	**36**	<160	**50**	**41**	**23**
Byproduct 5	**37,000**	**4.4**	**3.6 J**	<58	<2	<58	<2	<2	**9.1**
Byproduct 6	**110**	<2	<2	<15	<2	<15	<2	<2	<2
NVHOS	**8,400**	**6.7**	**10**	<54	**6.4**	<54	**7.5**	**9.1**	**9.1**
EVE Acid	**500**	<2	<2	<24	<2	<24	<2	<2	<2
Hydro-EVE Acid	**5,300**	**5.9**	**10**	<28	**17**	<28	**9.3**	**6.4**	**6.5**
R-EVE	**12,000**	**47**	**65 J**	<70	**17**	<70	**22**	**13**	**9.5 J**
PES	<46	<2	<2	<46	<2	<46	<2	<2	<2
PFECA B	<60	<2	<2	<60	<2	<60	<2	<2	<2
PFECA-G	<41	<2	<2	<41	<2	<41	<2	<2	<2
Total Table 3+ Lab SOP*	**390,000**	**3,500**	**4,600**	**4,600**	**4,200**	**3,000**	**4,400**	**4,600**	**4,000**

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Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-09	PW-09	PW-10R	PW-10R	PW-11	PW-11	PW-12	PW-12	PW-13
Field Sample ID	PW-09-091119	GW4Q19-PW-09-103019	GW0619-PW-10R	GW4Q19-PW-10R-110419	PW-11-091019	GW4Q19-PW-11-102319	PW-12-091119	GW4Q19-PW-12-110519	PW-13-091019
Sample Date	9/11/2019	10/30/2019	9/19/2019	11/4/2019	9/10/2019	10/23/2019	9/11/2019	11/5/2019	9/10/2019
QA/QC	--	--	--	--	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	Liquid	LIQUID	LIQUID
SDG	320-54274-1	320-55860-1	320-54522-1	320-56112-1	320-54231-1	320-55683-1	320-54299-1	320-56112-1	320-54231-1
Lab Sample ID	320-54274-2	320-55860-5	320-54522-1	320-56112-4	320-54231-2	320-55683-2	320-54299-4	320-56112-10	320-54231-3
Table 3+ SOP (ng/L)									
HFPO-DA	<4	<2	**9,900**	**5,200**	**16,000**	**12,000**	<4	<2	<15
PFMOAA	<210	<5	**130,000**	**150,000**	**280,000**	**190,000**	<5	<5	<210
PFO2HxA	**170 J**	<2	**23,000**	**24,000**	**56,000 J**	**36,000**	<2	<2	<81
PFO3OA	<58	<2	**1,100**	**1,000**	**32,000 J**	**18,000**	<2	<2	<58
PFO4DA	<79	<2	<79	<79	**16,000**	**11,000**	<2	<2	<79
PFO5DA	<34	<2	<34	**34**	**670 J**	**1,100**	<2	<2	<34
PMPA	**1,600**	<10	**3,200**	**3,500**	**8,200**	**6,000**	**15**	<10	<570
PEPA	**220**	<20	**440**	**490**	**3,100**	**2,400**	<20	<20	<47
PFESA-BP1	**160 J**	<2	<27	<27	**410**	**440**	<2	<2	<27
PFESA-BP2	**81**	<2	<30	<30	**910**	**980**	<2	<2	<30
Byproduct 4	<160	<2	<160	<160	**1,400**	**1,100**	<2	<2	<160
Byproduct 5	**94**	<2	**160**	**170**	**3,200**	**2,000 J**	<2	<2	<58
Byproduct 6	<15	<2	<15	<15	**93**	<77	<2	<2	<15
NVHOS	<54	<2	**680**	**820**	**3,000**	**1,800**	<2	<2	<54
EVE Acid	<24	<2	<24	<24	<120	<120	<2	<2	<24
Hydro-EVE Acid	<28	<2	<28	<28	**940**	**590**	<2	<2	<28
R-EVE	<70	<2	**230**	**150**	**540**	<350	<2	<2	<70
PES	<46	<2	<46	<46	<230	<230	<2	<2	<46
PFECA B	<60	<2	<60	<60	<300	<300	<2	<2	<60
PFECA-G	<41	<2	<41	<41	<200	<200	<2	<2	<41
Total Table 3+ Lab SOP*	**2,300**	**ND**	**170,000**	**190,000**	**420,000**	**280,000**	**15**	**ND**	**ND**

Notes:

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TABLE B-3
ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Offsite	Offsite
Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-13	PW-14	PW-14	PW-15R	PW-15R	PW-15R	PW-15R	BLADEN-1D	BLADEN-1D
Field Sample ID	GW4Q19-PW-13-110819	PW-14-091119	GW4Q19-PW-14-102319	GW0619-PW-15R	GW0619-PW-15R-D	GW4Q19-PW-15R-110619	GW4Q19-PW-15R-110619-D	BLADEN-1D-082719	DUP-1-082719
Sample Date	11/8/2019	9/11/2019	10/23/2019	9/19/2019	9/19/2019	11/6/2019	11/6/2019	8/27/2019	8/27/2019
QA/QC	--	--	--	--	DUP	--	DUP	--	DUP
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-56173-1	320-54274-1	320-55683-1	320-54519-1	320-54519-1	320-56117-1	320-56117-1	280-127778-1	280-127778-1
Lab Sample ID	320-56173-8	320-54274-3	320-55683-8	320-54519-1	320-54519-2	320-56117-4	320-56117-5	280-127778-1	280-127778-2
Table 3+ SOP (ng/L)									
HFPO-DA	<2	**22,000**	**17,000**	**8,700 J**	**11,000 J**	**11,000**	**11,000**	**180**	**190**
PFMOAA	<5	**9,500,000**	**95,000**	**330,000**	**340,000**	**450,000**	**460,000**	**33**	**30**
PFO2HxA	<2	**3,400,000**	**27,000**	**63,000**	**64,000**	**76,000**	**77,000**	**81**	**80**
PFO3OA	<2	**1,100,000**	**8,100**	**14,000**	**14,000**	**16,000**	**17,000**	**6.2**	**6.2**
PFO4DA	<2	**610,000**	**4,800**	**2,200**	**2,200**	**2,000**	**2,300**	<2	<2
PFO5DA	<2	**390,000**	**2,900**	<67	<67	<170	<170	<2	<2
PMPA	<10	**1,400,000**	**13,000**	**36,000**	**36,000**	**50,000**	**50,000**	**330**	**330**
PEPA	<20	**390,000**	**3,400**	**8,900**	**9,300**	**11,000**	**11,000**	**110**	**110**
PFESA-BP1	<2	**6,000**	**52**	**3,300**	**4,100**	**2,300**	**2,400**	<2	<2
PFESA-BP2	<2	**250,000**	**2,500**	**640 J**	**670**	**470**	**480**	**0.48 J**	**0.48 J**
Byproduct 4	<2	**150,000**	**1,200**	**1,500 J**	**1,800 J**	**2,200**	**2,400**	**13 J**	**11 J**
Byproduct 5	<2	**190,000**	**2,400 J**	**19,000**	**21,000**	**27,000**	**27,000**	<2	<2
Byproduct 6	<2	**5,000**	**42**	**270**	**34**	<77	<77	<2	<2
NVHOS	<2	**96,000**	**840**	**3,500**	**3,500**	**4,600**	**4,800**	**2.2**	**1.9 J**
EVE Acid	<2	<2,400	**25**	**250 J**	**190**	<120	<120	<2	<2
Hydro-EVE Acid	<2	**210,000**	**2,000**	**550 J**	**510**	**400**	**430**	<2	**0.31 J**
R-EVE	<2	**130,000**	**1,200**	**700 J**	**560**	**930**	**890**	**6.2**	**5.7**
PES	<2	<4,600	<46	**210**	<92	<230	<230	<2	<2
PFECA B	<2	<6,000	<60	**220**	<120	<300	<300	<2	<2
PFECA-G	<2	<4,100	<41	**210**	<82	<200	<200	<2	<2
Total Table 3+ Lab SOP*	**ND**	**18,000,000**	**180,000**	**490,000**	**510,000**	**650,000**	**670,000**	**760**	**770**

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Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite
Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	BLADEN-1D	BLADEN-2D	BLADEN-2D	BLADEN-2S	BLADEN-2S	BLADEN-3D	BLADEN-3D	BLADEN-3S
Field Sample ID	GW4Q19-BLADEN-1D-110719	BLADEN-2D-082719	GW4Q19-Bladen-2D-102919	BLADEN-2S-082719	GW4Q19-BLADEN-2S-102219	BLADEN-3D-082819	GW4Q19-BLADEN-3D-102819	BLADEN-3S-082819
Sample Date	11/7/2019	8/27/2019	10/29/2019	8/27/2019	10/22/2019	8/28/2019	10/28/2019	8/28/2019
QA/QC	--	--	--	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-56173-1	280-127778-1	320-55854-1	280-127778-1	320-55686-1	280-127778-1	320-55757-1	280-127778-1
Lab Sample ID	320-56173-3	280-127778-4	320-55854-5	280-127778-3	320-55686-4	280-127778-6	320-55757-4	280-127778-5
Table 3+ SOP (ng/L)								
HFPO-DA	**140**	**11**	<2	**4.6**	**8.5 B**	**2.2 J**	<2	**12**
PFMOAA	**24 J**	<5	<5	**11**	**22 J**	<5	<5	**15**
PFO2HxA	**87**	**6.3**	<2	**19 J**	**31**	**1.3 J**	<2	**31**
PFO3OA	**7.3**	**0.96 J**	<2	**1.8 J**	<2	<2	<2	**3.8**
PFO4DA	<2	<2	<2	**1.5 J**	<2	<2	<2	**3.1**
PFO5DA	<2	<2	<2 UJ	**0.53**	<2	<2	<2	**0.98 J**
PMPA	**370**	**77 J**	<10	**68**	**60**	**14**	<10	**39**
PEPA	**110**	**12 J**	<20	**6.8 J**	<20	**2.1 J**	<20	**5.6 J**
PFESA-BP1	<2	<2	<2	<2	<2	<2	<2	<2
PFESA-BP2	<2	**3.9**	<2	**14**	**11**	**0.63 J**	<2	**3.6**
Byproduct 4	**7**	<2	<2	<2	**5.2**	<2	<2	**1.9 J**
Byproduct 5	<2	<2	<2	<2	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2	<2	<2	<2	<2
NVHOS	**2**	<2	<2	**1.5 J**	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	**0.36**	<2	<2	<2	**0.46 J**
R-EVE	**4.2**	<2	<2	<2	**3.5**	<2	<2	<2
PES	<2	<2	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2	<2
Total Table 3+ Lab SOP*	**750**	**110**	**ND**	**130**	**130**	**20**	**ND**	**120**

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ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite
Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	BLADEN-3S	BLADEN-4D	BLADEN-4D	BLADEN-4S	BLADEN-4S	CUMBERLAND-1D	CUMBERLAND-1D
Field Sample ID	GW4Q19-BLADEN-3S-102819	BLADEN-4D-082819	GW4Q19-BLADEN-4D-102519	BLADEN-4S-082819	GW4Q19-BLADEN-4S-102219	CUMBER-1D-09162019	GW4Q19-CUMBERLAND-1D-102419
Sample Date	10/28/2019	8/28/2019	10/25/2019	8/28/2019	10/22/2019	9/16/2019	10/24/2019
QA/QC	--	--	--	--	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID	Liquid	LIQUID	Liquid	LIQUID
SDG	320-55757-1	280-127778-1	320-55754-1	280-127778-1	320-55686-1	320-54439-1	320-55761-1
Lab Sample ID	320-55757-3	280-127778-7	320-55754-1	280-127778-10	320-55686-6	320-54439-2	320-55761-1
Table 3+ SOP (ng/L)							
HFPO-DA	**29**	<3.6	<2	<3.7	**2.7 B**	<3.8	**5**
PFMOAA	**21**	<5 UJ	<5 UJ	<5	<5 UJ	<5 UJ	<5
PFO2HxA	**59**	<2	<2	**3**	**3.1**	<2	<2
PFO3OA	**5.7**	<2	<2	<2	<2	<2	<2
PFO4DA	**3.9**	<2	<2	<2	<2	<2	<2
PFO5DA	<2	<2 UJ	<2	<2	<2	<2 UJ	<2
PMPA	**93**	**9.2 J**	<10	**12**	<10	<10	<10
PEPA	<20	<20	<20	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2	<2	<2	<2
PFESA-BP2	**8.3**	<2	<2	**1.5 J**	<2	<2	<2
Byproduct 4	<2	<2	<2	<2	<2	<2	<2
Byproduct 5	<2	<2	<2	<2	<2	<2	**2.5 J**
Byproduct 6	<2	<2	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2	<2	<2	<2 UJ
PES	<2	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
Total Table 3+ Lab SOP*	**220**	**9.2**	**ND**	**17**	**3**	**ND**	**7.5**

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ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite
Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	CUMBERLAND-1D	CUMBERLAND-1S	CUMBERLAND-1S	CUMBERLAND-2D	Cumberland-2D	CUMBERLAND-2S
Field Sample ID	GW4Q19-CUMBERLAND-1D-102419-D	CUMBER-1S-09162019	GW4Q19-CUMBERLAND-1S-102419	Cumber-2D-09162019	GW4Q19-CUMBERLAND-2D-102519	Cumber-2S-09162019
Sample Date	10/24/2019	9/16/2019	10/24/2019	9/16/2019	10/25/2019	9/16/2019
QA/QC	DUP	--	--	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID	Liquid	LIQUID	Liquid
SDG	320-55761-1	320-54439-1	320-55761-1	320-54378-1	320-55754-1	320-54378-1
Lab Sample ID	320-55761-2	320-54439-1	320-55761-3	320-54378-8	320-55754-2	320-54378-7
Table 3+ SOP (ng/L)						
HFPO-DA	**4.8**	<3.7	<2	<4 UJ	<2	<4 UJ
PFMOAA	<5	<5	<5 UJ	<5	<5	**22**
PFO2HxA	<2	**11**	**8.5**	<2	<2	**4.3**
PFO3OA	<2	**1.9 J**	<2	<2	<2	<2
PFO4DA	<2	**0.81 J**	<2	<2	<2	<2
PFO5DA	<2	<2 UJ	<2	<2	<2	<2
PMPA	<10	**13**	**16**	**10**	<10	**20**
PEPA	<20	<20	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2	<2	<2
PFESA-BP2	<2	**1.8 J**	**2.3**	<2	<2	<2
Byproduct 4	<2	<2	<2	<2	<2	<2
Byproduct 5	**2.4 J**	<2	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2	<2	<2
PES	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2
Total Table 3+ Lab SOP*	**7.2**	**29**	**27**	**10**	**ND**	**46**

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ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite
Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	Cumberland-2S	CUMBERLAND-3D	Cumberland-3D	CUMBERLAND-3S	CUMBERLAND-3S	CUMBERLAND-4D
Field Sample ID	GW4Q19-CUMBERLAND-2S-102319	Cumber-3D-09162019	GW4Q19-CUMBERLAND-3D-102319	Cumber-3S-09162019	GW4Q19-CUMBERLAND-3S-102219	Cumber-4D-09162019
Sample Date	10/23/2019	9/16/2019	10/23/2019	9/16/2019	10/22/2019	9/16/2019
QA/QC	--	--	--	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID	Liquid	LIQUID	Liquid
SDG	320-55683-1	320-54378-1	320-55683-1	320-54378-1	320-55686-1	320-54378-1
Lab Sample ID	320-55683-1	320-54378-6	320-55683-5	320-54378-5	320-55686-5	320-54378-1
Table 3+ SOP (ng/L)						
HFPO-DA	<86	<4 UJ	<86	**10 J**	**16 B**	<4 UJ
PFMOAA	<210	**17 J**	<210	**30**	**13 J**	<5
PFO2HxA	<81	<2	<81	**63**	**40**	<2
PFO3OA	<58	<2	<58	**9.8 J**	**3**	<2
PFO4DA	<79	<2	<79	**8.7**	<2	<2
PFO5DA	**38**	<2	<34	**7.6**	<2	<2
PMPA	<570	**12**	<570	**44**	**61**	**12**
PEPA	<47	<20	<47	<20	<20	<20
PFESA-BP1	<27	<2	<27	<2	<2	<2
PFESA-BP2	<30	<2	<30	**4**	**5.1**	<2
Byproduct 4	<160	<2	<160	**20 J**	<2	**2.7 J**
Byproduct 5	<58	<2	<58	<2	<2	<2
Byproduct 6	<15	<2	<15	<2	<2	<2
NVHOS	<54	<2	<54	<2	<2	<2
EVE Acid	<24	<2	<24	<2	<2	<2
Hydro-EVE Acid	<28	<2	<28	<2	<2	<2
R-EVE	<70	<2	<70	**11 J**	**2.3**	<2
PES	<46	<2	<46	<2	<2	<2
PFECA B	<60	<2	<60	<2	<2	<2
PFECA-G	<41	<2	<41	<2	<2	<2
Total Table 3+ Lab SOP*	**38**	**29**	**ND**	**210**	**120**	**15**

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Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite	Offsite	Offsite	Offsite
Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	CUMBERLAND-4D	CUMBERLAND-4S	CUMBERLAND-4S	CUMBERLAND-5S	Cumberland-5S	ROBESON-1D
Field Sample ID	GW4Q19-CUMBERLAND-4D-102419	Cumber-4S-09162019	GW4Q19-CUMBERLAND-4S-102519	Cumber-5S-09162019	GW4Q19-CUMBERLAND-5S-102319	ROBESON-1D-091219
Sample Date	10/24/2019	9/16/2019	10/25/2019	9/16/2019	10/23/2019	9/12/2019
QA/QC	--	--	--	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID	Liquid	LIQUID	Liquid
SDG	320-55761-1	320-54378-1	320-55761-1	320-54378-1	320-55683-1	280-128413-1
Lab Sample ID	320-55761-4	320-54378-2	320-55761-5	320-54378-4	320-55683-7	280-128413-2
Table 3+ SOP (ng/L)						
HFPO-DA	<2	**110 J**	**76**	<4 UJ	<86	**6 J**
PFMOAA	<5	**39**	**15 J**	**22**	<210	<5
PFO2HxA	<2	**110**	**78 J**	<2	<81	**2.8**
PFO3OA	<2	**18**	**14**	<2	<58	<2
PFO4DA	<2	**5.1**	**7.3**	<2	<79	<2
PFO5DA	<2	<2	<2	<2	**50**	<2 UJ
PMPA	<10	**140**	**120 J**	**14**	<570	**35**
PEPA	<20	**42**	**31**	<20	<47	<20
PFESA-BP1	<2	<2	<2	<2	<27	<2
PFESA-BP2	<2	**4.8**	**5.6**	<2	<30	**3**
Byproduct 4	<2	**74 J**	**30 J**	<2	<160	<2
Byproduct 5	<2	<2	<2	<2	<58	<2
Byproduct 6	<2	<2	<2	<2	<15	<2
NVHOS	<2	**2.1**	<2	<2	<54	<2
EVE Acid	<2	<2	<2	<2	<24	<2
Hydro-EVE Acid	<2	<2	<2	<2	<28	<2
R-EVE	<2	**18 J**	**7.6 J**	<2	<70	<2
PES	<2	<2	<2	<2	<46	<2
PFECA B	<2	<2	<2	<2	<60	<2
PFECA-G	<2	<2	<2	<2	<41	<2
Total Table 3+ Lab SOP*	**ND**	**560**	**380**	**36**	**50**	**47**

Notes:

* - Total Table 3+ was calculated using HFPO-DA from EPA Method 537 Mod and J qualified data, but not non-detect data. The total is rounded to two significant figures.

Bold - Analyte detected above associated reporting limit

B - analyte detected in an associated blank

EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SDG - Sample Delivery Group

SOP - standard operating procedure

UJ – Analyte not detected. Reporting limit may not be accurate or precise.

< - Analyte not detected above associated reporting limit.

TABLE B-3
ON AND OFFSITE RESAMPLED GROUNDWATER WELL ANALYTICAL RESULTS - JULY TO NOVEMBER 2019
Chemours Fayetteville Works, North Carolina

Area	Offsite	Offsite	Offsite
Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	ROBESON-1D	ROBESON-1S	ROBESON-1S
Field Sample ID	GW4Q19-ROBESON-1D-103119	ROBESON-1S-091219	GW4Q19-ROBESON-1S-103119
Sample Date	10/31/2019	9/12/2019	10/31/2019
QA/QC	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID
SDG	320-55909-1	280-128413-1	320-55909-1
Lab Sample ID	320-55909-3	280-128413-1	320-55909-4
Table 3+ SOP (ng/L)			
HFPO-DA	**3.6 B**	<4 UJ	<2
PFMOAA	<5	**6.3**	**7.4**
PFO2HxA	<2	**6.2**	**4.9**
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2 UJ	<2
PMPA	**11**	**34**	**18**
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	**7.1**	**8.7**
Byproduct 4	<2	<2	<2
Byproduct 5	<2	<2	<2
Byproduct 6	<2	<2	<2
NVHOS	<2	<2	<2
EVE Acid	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2
R-EVE	<2	<2	<2
PES	<2	<2	<2
PFECA B	<2	<2	<2
PFECA-G	<2	<2	<2
Total Table 3+ Lab SOP*	**11**	**54**	**39**

Notes:

* - Total Table 3+ was calculated using HFPO-DA from EPA Method 537 Mod and J qualified data, but not non-detect data. The total is rounded to two significant figures.

Bold - Analyte detected above associated reporting limit

B - analyte detected in an associated blank

EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SDG - Sample Delivery Group

SOP - standard operating procedure

UJ – Analyte not detected. Reporting limit may not be accurate or precise.

< - Analyte not detected above associated reporting limit.

TABLE B-4
SEPTEMBER 2019 MASS LOADING MODEL LOCATION SUMMARY
Chemours Fayetteville Works, North Carolina

Location ID	Location Description	Sample Collection	Flow Measurement
		Sep-19	Sep-19
OLDOF-1	Old Outfall 002 Location 1	Y	--
OLDOF-2	Old Outfall 002 Location 2	--	Y
SEEP-A-1	Seep A Location 1	Y	Y
SEEP-A-3	Seep A Location 3	Y	Y
SEEP-A-4	Seep A Location 4	Y	Y
SEEP-A-TR1	Seep A Tributary 1	Y	Y
SEEP-B-1	Seep B Location 1	Y	Y
SEEP-B-2	Seep B Location 2	Y	Y
SEEP-B-TR1	Seep B Tributary 1	Y	Y
SEEP-B-TR2	Seep B Tributary 2	Y	Y
SEEP-C-1	Seep C Location 1	Y	Y
SEEP-D-1 (2)	Seep D Location 1	Y	Y
WC-1	Willis Creek Location 1	Y	Y
GBC-1	Georgia Branch Creek Location 1	Y	Y
CFR-MILE-52	Cape Fear River Mile 52	Y	--
CFR-MILE-56	Cape Fear River Mile 56	Y	--
CFR-MILE-68	Cape Fear River Mile 68	Y	--
CFR-MILE-76	Cape Fear River Mile 76	Y	--
CFR-BLADEN	Cape Fear River at Bladen Bluffs	Y	--
CFR-KINGS	Cape Fear River at Kings Bluff	Y	--
W.O. Huske Dam	USGS Gauge Site No. 02105500	--	Y
Excess River Water	Excess River Water	Y	Y
Outfall 002	Outfall 002 location	Y	Y

Notes:

1. Flow at Old Outfall 002, Seep A, Seep B and Seep C locations were measured using flumes.
2. Flow at Seep D was measured using salt diultion.
3. Flow at Willis Creek and Georgia Branch Creek were measured using flow velocity method.
4. Results of estimated flow at these locations are provided in Table 6 and supplemental flow measurement data is included in Attachment C.

Y - Sampling or flow measurement was conducted

TABLE B-5
ANALYTICAL METHODS AND ANALYTE LIST
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	Chemical Formula
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	C6HF11O3
	PEPA	Perfluoroethoxypropylcarboxylic acid	267239-61-2	C5HF9O3
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	C12H9F9O3S
	PFMOAA	Perfluoro-2-methoxyacetic acid	674-13-5	C3HF5O3
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	C4HF7O4
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic)acid	39492-89-2	C5HF9O5
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic)acid	39492-90-5	C6HF11O6
	PMPA	2,3,3,3-Tetrafluoro-2-(trifluoromethoxy)propanoic	13140-29-9	C4HF7O3
	Hydro-EVE Acid	Hydro-EVE Acid	773804-62-9	C8H2F14O4
	EVE Acid	Perfluoroethoxypropionicacid	69087-46-3	C8HF13O4
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	C5HF9O4
	R-EVE	R-EVE	EVS1428	C8H2F12O5
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	C7HF13O7
	Byproduct 4	Byproduct 4	EVS1429	C7H2F12O6S
	Byproduct 5	Byproduct 6	EVS1430	C6H2F12O4S
	Byproduct 6	Byproduct 5	EVS1431	C7H3F11O7S
	NVHOS	NVHOS	1132933-86-8	C4H2F8O4S
	PES	PES	113507-82-7	C4HF9O4S
	PFESA-BP1	PFESA-BP1	29311-67-9	C7HF13O5S
	PFESA-BP2	PFESA-BP2	749836-20-2	C7H2F14O5S
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	C4HF7O2
	PFDA	Perfluorodecanoic acid	335-76-2	C10HF19O2
	PFDoA	Perfluorododecanoic acid	307-55-1	C12HF23O2
	PFHpA	Perfluoroheptanoic acid	375-85-9	C7HF13O2
	PFNA	Perfluorononanoic acid	375-95-1	C9HF17O2
	PFOA	Perfluorooctanoic acid	335-67-1	C8HF15O
	PFHxA	Perfluorohexanoic acid	307-24-4	C6HF11O2
	PFPeA	Perfluoropentanoic acid	2706-90-3	C5HF9O2
	PFTeA	Perfluorotetradecanoic acid	376-06-7	C14HF27O2
	PFTriA	Perfluorotridecanoic acid	72629-94-8	C13HF25O2
	PFUnA	Perfluoroundecanoic acid	2058-94-8	C11HF21O2
	PFBS	Perfluorobutanesulfonate	375-73-5	C4HF9SO
	PFDS	Perfluorodecanesulfonate	335-77-3	C10HF21O3S
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	C7HF15O3S
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	C6HF13SO3
	PFNS	Perfluorononanesulfonate	68259-12-1	C9HF19O3S
	PFOS	Perfluorosulfonic acid	1763-23-1	C8HF17SO3
	PFPeS	Perfluoropentane sulfonic acid	2706-91-4	C5HF11O3S
	10:2 FTS	Fluorotelomer sulfonate 10:2	120226-60-0	C12H5F21O3
	4:2 FTS	Fluorotelomer sulfonate 4:2	757124-72-4	C6H5F9O3S
	6:2 FTS	Fluorotelomer sulfonate 6:2	27619-97-2	C8H5F13SO3
	8:2 FTS	Fluorotelomer sulfonate 8:2	39108-34-4	C10H5F17O3S
	NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	C12H8F17NO4S
	NEtPFOSA	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	C10H6F17NO2S
	NEtPFOSAE	N-ethyl perfluorooctane sulphonamidoethanol	1691-99-2	C12H10F17NO3S
	NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	C11H6F17NO4S
	NMePFOSA	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	C9H4F17NO2S
	NMePFOSAE	N-methyl perfluorooctane sulfonamidoethanol	24448-09-7	C11H8F17NO3S
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	C12HF25O3S
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	C16HF31O2
	PFODA	Perfluorooctadecanoic acid	16517-11-6	C18HF35O2
	PFOSA	Perfluorooctane Sulfonamide	754-91-6	C8H2F17NO2S
	F-53B Major	F-53B Major	73606-19-6	C8HClF16O4S
	F-53B Minor	F-53B Minor	83329-89-9	C10HClF20O4S
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	C7H2F12O4
	NaDONA	NaDONA	EVS1361	--
	DONA	DONA	919005-14-4	--

Notes:
Abbreviations:
EPA - Environmental Protection Agency
ng/L - nanograms per liter
PFAS - Per- and Polyfluoroalkyl substances
SOP - Standard Operating Procedure

TABLE B-6
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Analytical Method	Location ID	CFR-BLADEN	CFR-KINGS	CFR-KINGS	CFR-MILE-52	CFR-MILE-56	CFR-MILE-68	CFR-MILE-76	Excess River Water
	Field Sample ID	CFR-BLADEN-091819	CFR-KINGS-091819	CFR-KINGS-091819-D	CFR-RM-52-091719	CFR-RM-56-091719	CFR-RM-68-091719	CFR-RM-76-091719	EXCESS RIVER WATER-091719
	Sample Date	9/18/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019
	QA/QC	--	--	Dup	--	--	--	--	--
	Lab Sample ID	320-54536-4	320-54545-3	320-54545-4	320-54545-2	320-54545-1	320-54536-3	320-54544-2	320-54544-3
Table 3+ Lab SOP (ng/L)	HFPO-DA	**39 J**	**27**	**26**	<4	<4	<4	**4.5**	**26**
	PFMOAA	**150 J**	**82**	**85**	<5 UJ	<5	<5 UJ	<5	**8 J**
	PFO2HxA	**59**	**33**	**34**	<2	<2	<2	**4.5 B**	**15 B**
	PFO3OA	**13**	**7.1**	**7.6**	<2	<2	<2	<2	**2.2**
	PFO4DA	**4.4**	**2.3**	**2.4**	<2	<2	<2	<2	<2
	PFO5DA	**2.2**	<2	<2	<2	<2	<2	<2	<2
	PMPA	**53**	**36**	**35**	<10	<10	<10	**20**	**42**
	PEPA	<20	<20	<20	<20	<20	<20	<20	<20
	PFESA-BP1	**2.8**	<2	<2	<2	<2	<2	<2	<2
	PFESA-BP2	**3.2**	**2**	**2.1**	<2	<2	<2	<2	<2
	Byproduct 4	**18 J**	**23 J**	**9.6 J**	**16 J**	**15 J**	**12 J**	<2	**16 J**
	Byproduct 5	**46 J**	**33 J**	**32 J**	**4.5 J**	**4.6 J**	**3 J**	<2	**2.7 J**
	Byproduct 6	<2	<2	<2	<2	<2	<2	<2	<2
	NVHOS	**7.1**	**4.5**	**5.4**	**13**	**9.4**	**6.8**	**4.7**	**4.4**
	EVE Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Hydro-EVE Acid	<2	<2	<2	<2	<2	<2	<2	<2
	R-EVE	**7.4 J**	**15 J**	**6.9 J**	**2.2 J**	**3.1 J**	**4.4 J**	<2	**7.1 J**
	PES	<2	<2	<2	<2	<2	<2	<2	<2
	PFECA B	<2	<2	<2	<2	<2	<2	<2	<2
	PFECA-G	<2	<2	<2	<2	<2	<2	<2	<2
	Total Table 3+ SOP	410	260	250	36	32	26	34	120
Method 537	10:2 Fluorotelomer sulfonate	<2	<2	<2	<2	<2	<2	<2	<2
	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20	<20	<20	<20
	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20	<20	<20	<20
	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2	<2	<2	<2	<2
	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	<4	<4	<4	<4	<4	<4
	6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20	<20	<20	<20
	N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20	<20	<20	<20
	N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	<2	<2	<2	<2	<2
	N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	<2	<2	<2	<2	<2
	N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20	<20	<20	<20
	Perfluorobutane Sulfonic Acid	**4.6**	**2.9**	**2.8**	**4.8**	**5.3**	**4.6**	**4.7**	**4.2**
	Perfluorobutanoic Acid	**9.9**	**5.3**	**5.5**	**15**	**14**	**10**	**9.4**	**9.6**
	Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorodecanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorododecanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluoroheptanoic Acid	**16**	**7.1**	**7.2**	**28**	**27**	**16**	**16**	**16**
	Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorohexane Sulfonic Acid	**6.5**	**6**	**5.9**	**7.1**	**7**	**6.6**	**6**	**6.4**
	Perfluorohexanoic Acid	**23**	**10**	**9.9**	**39**	**38**	**24**	**22**	**23**
	Perfluorononanesulfonic acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorononanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorooctadecanoic acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluoropentanoic Acid	**23**	**10**	**12**	**40**	**39**	**25**	**23**	**23**
	Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluorotridecanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	Perfluoroundecanoic Acid	<2	<2	<2	<2	<2	<2	<2	<2
	PFOA	**6.9**	**4.7**	**4.7**	**9**	**9.2**	**7.2**	**7.1**	**8.2**
	PFOS	**13**	**13**	**13**	**17**	**16**	**13**	**13**	**15**

TABLE B-6
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Analytical Method	Location ID	GBC-1	OLDOF-1	OUTFALL 002	SEEP-A-1	SEEP-A-3	SEEP-A-3	SEEP-A-4	SEEP-A-TR1	SEEP-B-1
	Field Sample ID	GBC-1-091719	OLDOF-1-091719	OUTFALL 002-091719	SEEP-A-1-091719	SEEP-A-3-091719	SEEP-A-3-091719-D	SEEP-A-4-091719	SEEP-A-TR1-091719	SEEP-B-1-091719
	Sample Date	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019
	QA/QC	--	--	--	--	--	Dup	--	--	--
	Lab Sample ID	320-54543-3	320-54543-2	320-54536-2	320-54543-4	320-54491-3	320-54491-4	320-54491-2	320-54491-1	320-54489-4
Table 3+ Lab SOP (ng/L)	HFPO-DA	**520**	**7,700**	**81 J**	**37,000**	**43,000 J**	**52,000 J**	**19,000**	**23,000**	**25,000**
	PFMOAA	**88**	**82,000**	**73 J**	**130,000**	**140,000**	**150,000**	**63,000**	**35,000**	**200,000**
	PFO2HxA	**320**	**17,000**	**65**	**55,000**	**56,000**	**61,000**	**27,000**	**24,000**	**46,000**
	PFO3OA	**44**	**4,300**	**20**	**18,000**	**18,000**	**20,000**	**6,500**	**5,300**	**9,100**
	PFO4DA	**13**	**1,300**	**9.8**	**9,600**	**11,000**	**10,000**	**2,600 J**	**1,500 J**	**1,200**
	PFO5DA	**2.3**	**800**	**9.2**	**6,700**	**8,700**	**8,700**	**2,100**	**210**	**310**
	PMPA	**800**	**5,100**	**40**	**24,000**	**24,000**	**25,000**	**29,000**	**20,000**	**36,000**
	PEPA	**240**	**1,800**	<20	**9,500**	**9,100**	**9,500**	**12,000**	**7,200**	**14,000**
	PFESA-BP1	<2	**53**	**41**	**7,900**	**8,900**	**10,000**	**100 J**	<27	**1,100**
	PFESA-BP2	**22**	**320**	**46**	**1,800**	**2,100**	**2,200**	**460**	**290**	**680**
	Byproduct 4	**37 J**	**390**	**26 J**	**3,100**	**3,200**	**3,400**	**1,300**	**990**	**3,900**
	Byproduct 5	<2	**970**	**150 J**	**28,000**	**30,000**	**33,000**	**3,600**	**250 J**	**30,000**
	Byproduct 6	<2	<15	<2	**85**	**89**	**95**	**22**	**15**	**63**
	NVHOS	**2.7**	**760**	**9.7 J**	**1,700**	**1,600**	**1,800**	**650**	**470**	**2,800**
	EVE Acid	<2	<24	**6.8**	**1,500**	**1,700**	**1,900**	<24	<24	**1,400**
	Hydro-EVE Acid	<2	**190**	**2.2**	**2,300**	**2,700**	**2,700**	**510**	**250**	**1,900**
	R-EVE	**18 J**	**220**	**6 J**	**1,600**	**1,600**	**1,800**	**870**	**680**	**2,600**
	PES	<2	<46	<2	<46	<46	<46	<46	<46	<92
	PFECA B	<2	<60	<2	<60	<60	<60	<60	<60	<120
	PFECA-G	<2	<41	<2	<41	<41	<41	<41	<41	<82
	Total Table 3+ SOP	2,100	120,000	590	340,000	360,000	390,000	170,000	120,000	380,000
Method 537	10:2 Fluorotelomer sulfonate	<18	<18	<2	<19	<18	<18	<18	<19	<18
	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<190	<190	<20	<200	<190	<190	<190	<200	<190
	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<500	<490	<24	<520	<490	<490	<500	<520	<500
	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<82	<80	<4	<84	<79	<80	<82	<85	<82
	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<130	<130	<6.5	<140	<130	<130	<140	<140	<130
	6:2 Fluorotelomer sulfonate	<190	<190	<20	<200	<190	<190	<190	<200	<190
	N-ethyl perfluorooctane sulfonamidoacetic acid	<180	<180	<20	<190	<180	<180	<180	<190	<180
	N-ethylperfluoro-1-octanesulfonamide	<84	<82	<4.1	<86	<81	<82	<84	<87	<84
	N-methyl perfluoro-1-octanesulfonamide	<41	<41	<2	<43	<40	<41	<42	<43	<41
	N-methyl perfluorooctane sulfonamidoacetic acid	<300	<290	<20	<310	<290	<290	<300	<310	<300
	Perfluorobutane Sulfonic Acid	**100**	**89**	**4.2**	**93**	**87**	**100**	**130**	**140**	**130**
	Perfluorobutanoic Acid	<34	**68**	**9.9**	**350**	**370**	**370**	**380**	**130**	**460**
	Perfluorodecane Sulfonic Acid	<31	<30	<2	<32	<30	<30	<31	<32	<31
	Perfluorodecanoic Acid	<30	<29	<2	<31	<29	<29	<30	<31	<30
	Perfluorododecane sulfonic acid (PFDoS)	<43	<43	<2.1	<45	<42	<42	<44	<45	<43
	Perfluorododecanoic Acid	<53	<52	<2.6	<55	<51	<52	<53	<55	<53
	Perfluoroheptane sulfonic acid (PFHpS)	<18	<18	<2	<19	<18	<18	<18	<19	<18
	Perfluoroheptanoic Acid	<24	**31**	**17**	**140**	**140**	**130**	**65**	**47**	**160**
	Perfluorohexadecanoic acid (PFHxDA)	<86	<84	<4.1	<88	<83	<84	<86	<90	<86
	Perfluorohexane Sulfonic Acid	<16	<16	**5.8**	<17	<16	<16	<16	<17	<16
	Perfluorohexanoic Acid	<56	<55	**24**	<58	**63**	**64**	<56	<58	<56
	Perfluorononanesulfonic acid	<15	<15	<2	<16	<15	<15	<15	<16	<15
	Perfluorononanoic Acid	<26	<26	<2	<27	**30**	**28**	<26	<27	<26
	Perfluorooctadecanoic acid	<44	<44	<2.1	<46	<43	<43	<44	<46	<44
	Perfluorooctane Sulfonamide	<34	<33	<2	<35	<33	<33	<34	<35	<34
	Perfluoropentane sulfonic acid (PFPeS)	<29	<28	<2	<30	<28	<28	<29	<30	<29
	Perfluoropentanoic Acid	<47	**160**	**23**	**800**	**790**	**870**	**480**	**320**	**1,200**
	Perfluorotetradecanoic Acid	<28	<27	<2	<29	<27	<27	<28	<29	<28
	Perfluorotridecanoic Acid	<130	<120	<6.1	<130	<120	<120	<130	<130	<130
	Perfluoroundecanoic Acid	<110	<100	<5.1	<110	<100	<100	<110	<110	<110
	PFOA	<82	<80	**7.2**	<84	<79	<80	<82	<85	<82
	PFOS	<52	<51	**14**	<54	<50	<51	<52	<54	<52

TABLE B-6
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Analytical Method	Location ID	SEEP-B-2	SEEP-B-TR1	SEEP-B-TR2	SEEP-C-1	SEEP-D-1	WC-1	EB	EB	EB	FBLK
	Field Sample ID	SEEP-B-2-091719	SEEP-B-TR1-091719	SEEP-B-TR2-091719	SEEP-C-1-091719	SEEP D-1-091719	WC-1-091719	EQBLK-091719-01	EQBLK-091719-02	EB-01-091819	FBLK-091719
	Sample Date	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/17/2019	9/18/2019	9/17/2019
	QA/QC	--	--	--	--	--	--	Equipment Blank	Equipment Blank	Equipment Blank	Field Blank
	Lab Sample ID	320-54489-3	320-54489-2	320-54489-1	320-54544-1	320-54536-1	320-54543-1	320-54544-6	320-54544-5	320-54536-6	320-54544-4
Table 3+ Lab SOP (ng/L)	HFPO-DA	**44,000 J**	**18,000**	**41,000 J**	**38,000**	**16,000 J**	**400**	<4	<4	<4 UJ	<4
	PFMOAA	**190,000**	**61,000**	**92,000**	**210,000**	**100,000**	**690 J**	**36**	<5	<5	<5
	PFO2HxA	**45,000**	**17,000**	**27,000**	**56,000**	**28,000**	**380**	**6.7**	<2	<2	<2
	PFO3OA	**9,300**	**3,800**	**4,600**	**15,000**	**7,100**	**58**	<2	<2	<2	<2
	PFO4DA	**1,500**	**1,300**	**1,200**	**3,400**	**2,100**	**13**	<2	<2	<2	<2
	PFO5DA	**430**	**1,500**	**540**	<170	**240**	**3**	<2	<2	<2	<2
	PMPA	**49,000**	**17,000**	**41,000**	**12,000**	**8,100**	**540**	<10	<10	<10	<10
	PEPA	**22,000**	**6,000**	**19,000**	**4,100**	**2,700**	**130**	<20	<20	<20	<20
	PFESA-BP1	**2,200**	<27	**2,100**	<130	<27	<2	<2	<2	<2	<2
	PFESA-BP2	**1,300**	**580**	**1,600**	**530**	**350**	**13**	<2	<2	<2	<2
	Byproduct 4	**6,100**	**740**	**6,500**	**1,700**	**1,100**	**61 J**	<2	<2	<2	<2
	Byproduct 5	**45,000**	**4,300**	**38,000**	**2,800 B**	**2,000**	**300 J**	**2.1**	<2	<2	<2
	Byproduct 6	**110**	<15	**130**	<77	**16**	<2	<2	<2	<2	<2
	NVHOS	**4,100**	**580**	**4,500**	**1,900**	**900**	**13**	<2	<2	<2	<2
	EVE Acid	**2,800**	<24	**1,500**	<120	<24	<2	<2	<2	<2	<2
	Hydro-EVE Acid	**3,600**	**320**	**5,000**	**2,200**	**1,400**	**5.9**	<2	<2	<2	<2
	R-EVE	**4,600**	**390 J**	**5,400**	**2,000**	**1,100 J**	**34 J**	<2	<2	<2	<2
	PES	<92	<46	<46	<230	<46	<2	<2	<2	<2	<2
	PFECA B	<120	<60	<60	<300	<60	<2	<2	<2	<2	<2
	PFECA-G	<82	<41	<41	<200	<41	<2	<2	<2	<2	<2
	Total Table 3+ SOP	430,000	130,000	290,000	350,000	170,000	2,600	45			
Method 537	10:2 Fluorotelomer sulfonate	<19	<18	<18	<18	<17	<19	<2	<2	<2	<2
	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<200	<190	<190	<190	<180	<200	<20	<20	<20	<20
	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<510	<490	<490	<500	<470	<520	<20	<20	<20	<20
	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<84	<80	<80	<81	<77	<86	<2	<2	<2	<2
	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<140	<130	<130	<130	<130	<140	<4	<4	<4	<4
	6:2 Fluorotelomer sulfonate	<200	<190	<190	<190	<180	<200	<20	<20	<20	<20
	N-ethyl perfluorooctane sulfonamidoacetic acid	<190	<180	<180	<180	<170	<190	<20	<20	<20	<20
	N-ethylperfluoro-1-octanesulfonamide	<85	<82	<82	<83	<78	<88	<2	<2	<2	<2
	N-methyl perfluoro-1-octanesulfonamide	<42	<40	<40	<41	<39	<43	<2	<2	<2	<2
	N-methyl perfluorooctane sulfonamidoacetic acid	<300	<290	<290	<300	<280	<310	<20	<20	<20	<20
	Perfluorobutane Sulfonic Acid	**100**	**110**	**130**	<19	<18	**220**	<2	<2	<2	<2
	Perfluorobutanoic Acid	**780**	**450**	**800**	**380**	**210**	<35	<2	<2	<2	<2
	Perfluorodecane Sulfonic Acid	<31	<30	<30	<31	<29	<32	<2	<2	<2	<2
	Perfluorodecanoic Acid	<30	<29	<29	<30	<28	<31	<2	<2	<2	<2
	Perfluorododecane sulfonic acid (PFDoS)	<44	<42	<42	<43	<41	<45	<2	<2	<2	<2
	Perfluorododecanoic Acid	<54	<52	<52	<53	<50	<55	<2	<2	<2	<2
	Perfluoroheptane sulfonic acid (PFHpS)	<19	<18	<18	<18	<17	<19	<2	<2	<2	<2
	Perfluoroheptanoic Acid	**230**	**70**	**240**	**240**	**110**	<25	<2	<2	<2	<2
	Perfluorohexadecanoic acid (PFHxDA)	<87	<84	<84	<85	<80	<90	<2	<2	<2	<2
	Perfluorohexane Sulfonic Acid	<17	<16	<16	<16	<15	<17	<2	<2	<2	<2
	Perfluorohexanoic Acid	**62**	<54	**63**	**84**	<52	<58	<2	<2	<2	<2
	Perfluorononanesulfonic acid	<16	<15	<15	<15	<14	<16	<2	<2	<2	<2
	Perfluorononanoic Acid	<27	<25	<25	<26	<24	<27	<2	<2	<2	<2
	Perfluorooctadecanoic acid	<45	<43	<43	<44	<41	<46	<2	<2	<2	<2
	Perfluorooctane Sulfonamide	<34	<33	<33	<33	<32	<35	<2	<2	<2	<2
	Perfluoropentane sulfonic acid (PFPeS)	<29	<28	<28	<29	<27	<30	<2	<2	<2	<2
	Perfluoropentanoic Acid	**1,900**	**570**	**2,100**	**1,900**	**790**	<49	<2	<2	<2	<2
	Perfluorotetradecanoic Acid	<28	<27	<27	<28	<26	<29	<2	<2	<2	<2
	Perfluorotridecanoic Acid	<130	<120	<120	<120	<120	<130	<2	<2	<2	<2
	Perfluoroundecanoic Acid	<110	<100	<100	<110	<99	<110	<2	<2	<2	<2
	PFOA	<84	<80	<80	<81	<77	<86	<2	<2	<2	<2
	PFOS	<53	<51	<51	<52	<49	<54	<2	<2	<2	<2

TABLE B-6
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Analytical Method	Location ID	FBLK
	Field Sample ID	FB-01-091819
	Sample Date	9/18/2019
	QA/QC	Field Blank
	Lab Sample ID	320-54536-5
Table 3+ Lab SOP (ng/L)	HFPO-DA	<4
	PFMOAA	<5
	PFO2HxA	<2
	PFO3OA	<2
	PFO4DA	<2
	PFO5DA	<2
	PMPA	<10
	PEPA	<20
	PFESA-BP1	<2
	PFESA-BP2	<2
	Byproduct 4	<2
	Byproduct 5	<2
	Byproduct 6	<2
	NVHOS	<2
	EVE Acid	<2
	Hydro-EVE Acid	<2
	R-EVE	<2
	PES	<2
	PFECA B	<2
	PFECA-G	<2
	Total Table 3+ SOP	
Method 537	10:2 Fluorotelomer sulfonate	<2
	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20
	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20
	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2
	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4
	6:2 Fluorotelomer sulfonate	<20
	N-ethyl perfluorooctane sulfonamidoacetic acid	<20
	N-ethylperfluoro-1-octanesulfonamide	<2
	N-methyl perfluoro-1-octanesulfonamide	<2
	N-methyl perfluorooctane sulfonamidoacetic acid	<20
	Perfluorobutane Sulfonic Acid	<2
	Perfluorobutanoic Acid	<2
	Perfluorodecane Sulfonic Acid	<2
	Perfluorodecanoic Acid	<2
	Perfluorododecane sulfonic acid (PFDoS)	<2
	Perfluorododecanoic Acid	<2
	Perfluoroheptane sulfonic acid (PFHpS)	<2
	Perfluoroheptanoic Acid	<2
	Perfluorohexadecanoic acid (PFHxDA)	<2
	Perfluorohexane Sulfonic Acid	<2
	Perfluorohexanoic Acid	<2
	Perfluorononanesulfonic acid	<2
	Perfluorononanoic Acid	<2
	Perfluorooctadecanoic acid	<2
	Perfluorooctane Sulfonamide	<2
	Perfluoropentane sulfonic acid (PFPeS)	<2
	Perfluoropentanoic Acid	<2
	Perfluorotetradecanoic Acid	<2
	Perfluorotridecanoic Acid	<2
	Perfluoroundecanoic Acid	<2
	PFOA	<2
	PFOS	<2

Notes:

1. **Bold** - Analyte detected above associated reporting limit
2. F53B-Major, F53B-Minor, DONA, ADONA and NaDONA were not reported by the laboratory at the time of this analysis.

Abbreviations:
B - analyte detected in an associated blank
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

RECORD OF WELL DEVELOPMENT

RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: Cumberland-2D
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: bottom of well
Method: Low Flow: SS Monsoon Pump
Date: 10-21-2019
Time: 13:56

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.486		
Initial Depth to Water (ft.):	5.41	Depth to Well Bottom (ft.):	58.45

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:26	6.00	7500.00	36.00	5.67	51.10	41.20	995.00	0.08	20.46	Cloudy	No	
14:40	6.10	7500.00	30.00	6.24	52.10	9.30	547.00	0.08	20.21	Cloudy	No	
14:50	6.15	7500.00	30.00	6.32	51.60	8.90	447.00	0.08	19.91	Cloudy	No	
15:10	6.20	7500.00	30.00	6.4	56.50	8.70	162.00	0.08	20.20	Cloudy	No	
15:25	6.21	7500.00	30.00	6.45	57.10	9.30	79.70	0.08	19.82	Semi cloudy	No	
15:35	6.25	7500.00	20.00	6.45	56.60	8.80	86.00	0.07	19.67	Semi cloudy	No	
15:45	6.30	7500.00	20.00	6.45	56.40	8.40	66.00	0.07	19.68	Slightly cloudy	No	
15:55	6.33	7500.00	20.00	6.43	55.40	8.30	64.00	0.07	19.70	Clear	No	

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.43
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	64.00
Temp.(°C)	19.70
DO (mg/L)	55.40
ORP (mV)	8.30

Screen Interval: 47 - 57

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: Cumberland-2D
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: bottom of well
Method: Low Flow: SS Monsoon Pump
Date: 10-22-2019
Time: 10:40

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.442		
Initial Depth to Water (ft.):	5.44	Depth to Well Bottom (ft.):	58.2

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:45	5.20	11250.00	45.00	7.08	2.14	-70.00	116.00	0.08	19.90	Semi cloudy	Sulfuric	
11:00	6.22	11250.00	45.00	6.74	2.57	-36.00	74.30	0.07	19.70	Semi cloudy	Sulfuric	
11:15	6.30	11250.00	45.00	6.3	3.04	-17.70	51.90	0.06	19.60	Semi cloudy	Sulfuric	
11:30	6.32	11250.00	45.00	6.19	3.38	-7.20	38.60	0.06	19.80	Clear	No	
11:45	6.35	11250.00	45.00	6.19	3.38	-11.10	33.10	0.06	20.00	Clear	No	
12:00	6.40	11250.00	45.00	6.17	3.38	-11.80	31.10	0.06	20.03	Clear	No	

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.17
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	31.10
Temp.(°C)	20.03
DO (mg/L)	3.38
ORP (mV)	

Screen Interval: 47 - 57

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	EPA 537 Modified
PFAS	250 mL poly	NP	Table 3
PFAS	250 mL poly	NP	Table 3+

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	

RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: Cumberland-4D
Well Diameter: 2 Inches

Samplers: BEN KRAUSE Nick charles
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: bottom of well
Method: Low Flow: SS Monsoon Pump
Date: 10-18-2019
Time: 11:02

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.768		
Initial Depth to Water (ft.):	13.9	Depth to Well Bottom (ft.):	68.7

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:17	16.65	7500.00	30.00	5.58	59.00	84.50		0.07	20.55	Cloudy	Sulfuric smell	Turbidity over range
11:30	17.80	7500.00	26.00	5.06	63.30	69.80	404.00	0.05	19.80	Cliudy	Sulfuric odor	
11:45	16.85	7500.00	30.00	5.14	83.30	82.10	583.00	0.04	20.05	Cloudy	Sulfuric odor	
12:00	16.90	7500.00	30.00	5.13	53.80	80.10	316.00	0.04	20.19	Cloudy	Sulfuric odor	
12:15	16.90	7500.00	30.00	5.17	51.20	88.20	77.00	0.04	19.79	Cloudy	Sulfuric odor	
14:10	16.35	7500.00	6.00	5.14	59.80	94.30	373.00	0.05	20.00	Cloudy	Sulfuric odor	
14:20	16.68	7500.00	20.00	4.92	48.00	75.50	92.60	0.04	19.97	Clear	Sulfuric odor	
14:35	16.80	7500.00		5	50.60	80.70	34.70	0.04	20.06	Clear	Sulfuric odor	
14:50	16.90	7500.00	30.00	5	48.60	78.80	18.80	0.04	19.98	Clear	Sulfuric odor	
15:05	16.90	7500.00	30.00	4.97	48.80	80.10	15.50	0.04	19.91	Clear	Sulfuric odor	

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.97
Spec. Cond.(mS/cm)	0.04
Turbidity (NTU)	15.50
Temp.(°C)	19.91
DO (mg/L)	48.80
ORP (mV)	80.10

Screen Interval: 57 - 67

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: Cumberland-4S
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: bottom of well
Method: Low Flow: SS Monsoon Pump
Date: 10-18-2019
Time: 11:13

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.024		
Initial Depth to Water (ft.):	7.65	Depth to Well Bottom (ft.):	20.3

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:44	14.75	7900.00	72.00	3.44	0.00	233.00	69.10	0.04	27.69	Cloudy	Sulfuric	
12:06	14.72	7900.00	108.00	3.36	0.56	236.00	58.50	0.04	27.65	Cloudy	Sulfuric	
12:18	14.64	7900.00	104.00	3.43	0.36	232.00	58.00	0.04	27.64	Slightly cloudy	Sulfuric	
14:18	14.02	7900.00	128.00	3.51	0.70	234.00	60.20	0.04	27.65	Clear	Sulfuric	
14:47	12.45	7900.00	158.00	3.78	6.70	225.00	140.00	0.00	28.17	Slightly cloudy	Sulfuric	Fluctuating dtw from 8.8 to ~14
15:02	14.48	7900.00	178.00	3.64	3.67	131.80	78.10	0.05	26.77	Clear	None	
15:20	14.63	7900.00	208.00	3.52	3.06	149.00	51.40	0.05	27.18	Red/orange	No	
15:38	14.65	7900.00	226.00	3.47	2.52	162.10	57.80	0.05	26.11	Yellow,orange	None	

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	3.47
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	57.80
Temp.(°C)	26.11
DO (mg/L)	2.52
ORP (mV)	162.10

Screen Interval: 10 - 20

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: Cumberland-4S

Well Diameter: 2 Inches

Samplers: BEN KRAUSE

Event: Quarterly

Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Low Flow: SS Monsoon Pump

Date: 10-21-2019

Time: 11:20

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.131		
Initial Depth to Water (ft.):	7.59	Depth to Well Bottom (ft.):	20.91

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:43	10.85		11.00	5.55	67.10	101.30	114.00	0.09	26.74	Orange	Sulfuric	
12:00	10.52		9.00	4.52	56.60	142.50	469.00	0.06	25.89	Orange	Sulfuric	
12:15	9.70		7.50	4.3	56.60	163.30	41.50	0.05	25.93	Orange	Sulfuric	
12:30	10.70		7.50	4.31	56.90	168.40	25.60	0.05	25.89	Orange	Sulfuric	
12:45	9.60		7.50	4.27	55.90	169.20	17.30	0.05	25.81	Orange	Sulfuric	

Sampling Data

Zero HS:

Method:

Date:

Time:

Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.27
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	17.30
Temp.(°C)	25.81
DO (mg/L)	55.90
ORP (mV)	169.20

Screen Interval: 10 - 20

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	Cumberland-5S	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER Justin Hobart	Event:	Other	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:					
Pump Loc:	bottom of well				
Method:	Conventional: SS Monsoon Pump	Date:	10-21-2019	Time:	11:04

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3		
Initial Depth to Water (ft.):	4.48	Depth to Well Bottom (ft.):	23.23

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:30	4.59	9000.00		5.63	8.66	-28.60	984.00	0.12	22.95	Tan	Yes	
11:50	4.63	9000.00		5.8	2.10	-20.60	325.00	0.13	23.07	Light tan	Yes	
12:05	4.64	9000.00		5.69	1.46	-21.00	652.00	0.12	22.67	Tan	Yes	
12:20	4.64	9000.00		5.63	1.59	-69.40	402.00	0.12	22.68	Light tan	Yes	
12:35	4.64	9000.00		5.63	1.22	-59.60	218.00	0.12	22.75	Light tan	Yes	
12:50	4.64	9000.00		5.64	1.45	-66.40	235.00	0.12	22.87	Cloudy	Yes	
13:05	4.64	9000.00		5.64	1.46	-8.90	130.00	0.11	22.91	Cloudy	Yes	
13:20	4.64	9000.00		5.63	1.50	-68.40	66.60	0.11	22.78	Cloudy	Yes	
13:24	4.64	9000.00		5.62	1.60	-69.50	55.10	0.11	23.22	Cloudy	Yes	
16:10	4.60	9000.00		5.68	2.26	-67.50	145.00	0.12	23.26	Cloudy	Yes	
16:20	4.62	9000.00		5.61	1.71	-59.90	64.40	0.11	22.88	Cloudy	Yes	
16:30	4.62	9000.00		5.61	1.59	10.60	34.70	0.11	22.80	Cloudy	Yes	
16:40	4.64	9000.00		5.59	1.70	46.20	21.60	0.11	22.72	Clear	Yes	
16:50	4.64	9000.00		5.52	1.72	-34.70	19.30	0.11	22.83	Clear	Yes	
16:00	4.64	9000.00		5.63	1.43	-44.50	14.70	0.12	22.63	Clear	Yes	
17:10	4.64	9000.00		5.59	1.14	-54.70	11.40	0.11	22.50	Clear	Yes	
17:20	4.64	9000.00		5.6	1.26	-51.70	9.66	0.11	22.64	Clear	Yes	
17:30	4.64	9000.00		5.5	1.25	-50.20	9.33	0.11	22.63	Clear	Yes	
17:40	4.64	9000.00		5.55	1.24	-50.70	9.43	0.11	22.61	Clear	Yes	Odor, possible petroleum contamination from gas station

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.55
Spec. Cond.(mS/cm)	0.11
Turbidity (NTU)	9.43
Temp.(°C)	22.61
DO (mg/L)	1.24
ORP (mV)	

Screen Interval: 14 - 24

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	5

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PIW-2D	Well Diameter:	2 Inches
Samplers:	LAUREN LACY	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump Date: 10-28-2019 Time: 14:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.6		
Initial Depth to Water (ft.):	36.75	Depth to Well Bottom (ft.):	53

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:25												Well went dry before readings could be taken. Let recharge 30 minutes

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval: 40 - 50

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	80.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PIW-2D	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:					
Pump Loc:	bottom of well				
Method:	Electric Submersible Pump	Date:	10-29-2019	Time:	10:46

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.576		
Initial Depth to Water (ft.):	36.9	Depth to Well Bottom (ft.):	53

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	^{o}C			
11:00	50.55			6.18	11.20	106.50	832.00	0.09	18.62	Cloudy	No	Well went dry at 1103
13:38												Developed until dry for the third time.

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(^{o}C)	
DO (mg/L)	
ORP (mV)	

Screen Interval:

40 - 50

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	65.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	8

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RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: PIW-4D
Well Diameter: 2 Inches

Samplers: CHARLES PACE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: bottom of well
Method: Electric Submersible Pump
Date: 10-22-2019
Time: 14:51

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0		
Initial Depth to Water (ft.):		Depth to Well Bottom (ft.):	

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:53		8500.00		6.51	2.53	55.30	1000.00	0.06	19.44	Grey	present	
15:10		8500.00		6.21	1.25	52.00	152.00	0.05	19.80	Cloudy	no	
15:29		8500.00		6.2	1.77	52.90	82.30	0.06	20.21	Slightly cloudy	Strong	
15:48		8500.00		5.9	1.61	81.50	67.20	0.05	19.56	Clear	Strong	
15:59		8500.00		6.01	1.31	64.90	36.60	0.05	19.02	Clear	Strong	
16:07		8500.00		6.24	1.62	62.90	32.50	0.05	18.98	Clear	Strong	
16:13		8500.00		6.29	1.78	65.70	29.50	0.05	18.76	Clear	Strong	
16:21		8500.00		6.29	1.77	68.10	28.20	0.05	18.42	Clear	Strong	About 250 gal purged.

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.29
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	28.20
Temp.(°C)	18.42
DO (mg/L)	1.77
ORP (mV)	68.10

Screen Interval: 32.3 - 37.3

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	9

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-02	Well Diameter:	2 Inches
Samplers:	Alli Vo, Brandon Peach	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump Date: 10-23-2019 Time: 10:20

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.096		
Initial Depth to Water (ft.):	56.64	Depth to Well Bottom (ft.):	63.49

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:38	58.45			4.99	3.92	174.50	484.00	0.13	19.28			
10:45	56.78			4.76	4.15	228.70	430.00	0.12	19.25			
11:10	58.45			4.61	4.03	249.40	350.00	0.12	19.57			
11:25				4.47	3.79	272.00	244.00	0.12				
11:40	58.42			4.43	4.22	283.00	216.00	0.12	19.12			
11:55	59.15			4.84	4.36	242.70	245.00	0.12	19.26			
12:10	59.23			4.49	4.67	267.30	200.00	0.12	19.01			
12:25	59.29			4.41	4.63	290.00	192.00	0.12	18.96			
12:40	59.31			4.37	4.42	299.40	184.00	0.12	18.91			
12:55	59.32			4.33	4.28	305.90	157.00	0.12	18.82			
13:10	59.34			4.32	4.28	309.70	131.00	0.12	18.86			
13:25	59.35			4.32	4.48	312.70	119.00	0.12	18.95			Tank full stop purging at 250 gal

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.32
Spec. Cond.(mS/cm)	0.12
Turbidity (NTU)	119.00
Temp.(°C)	18.95
DO (mg/L)	4.48
ORP (mV)	312.70

Screen Interval: 50 - 60

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-03	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:					
Pump Loc:	bottom of well				
Method:	Conventional: SS Monsoon Pump	Date:	10-23-2019	Time:	13:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.99		
Initial Depth to Water (ft.):	42.46	Depth to Well Bottom (ft.):	48.65

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:35	42.60	4800.00		6.7	1.30	-19.70	999.00	0.39	21.33	Dark gray	None	
13:50	43.50	4800.00		6.54	-0.20	25.10	999.00	0.35	22.97	Dark gray	None	Decided to read depth to water right before turning pump on
16:05	42.65	4800.00		5.37	1.07	37.00	999.00	0.38	21.99	Dark grey	No	3 well volumes purged, about 3 gallons in total

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons): 2.97

Field Parameters

STABILIZED PARAMETERS	
pH	5.37
Spec. Cond.(mS/cm)	0.38
Turbidity (NTU)	999.00
Temp.(°C)	21.99
DO (mg/L)	1.07
ORP (mV)	37.00

Screen Interval: 35 - 45

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	EPA 537 Modified
PFAS	250 mL poly	NP	Table 3
PFAS	250 mL poly	NP	Table 3+

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-04	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Peristaltic Pump Date: 10-28-2019 Time: 11:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.216		
Initial Depth to Water (ft.):	29.52	Depth to Well Bottom (ft.):	30.87

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:38				3.84	4.35	99.10		0.40	22.70	Cloudy	No	Turbidity OR
11:54	30.84			2.94	1.47	157.60	36.40	0.02	23.94	Clear	No	Went dry at 12:00

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	2.94
Spec. Cond.(mS/cm)	0.02
Turbidity (NTU)	36.40
Temp.(°C)	23.94
DO (mg/L)	1.47
ORP (mV)	157.60

Screen Interval: 17 - 27

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	EPA 537 Modified
PFAS	250 mL poly	NP	Table 3
PFAS	250 mL poly	NP	Table 3+

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	73.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: PW-07

Well Diameter: 2 Inches

Samplers: LUKE TART

Event: Quarterly

Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump

Date: 10-28-2019

Time: 13:06

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.31		
Initial Depth to Water (ft.):	39.89	Depth to Well Bottom (ft.):	41.83

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:25												Well went dry before any readings could be taken

Sampling Data

Zero HS:

Method:

Date:

Time:

Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval:

28 - 38

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	77.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump Date: 10-29-2019 Time: 10:09

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.224		
Initial Depth to Water (ft.):	39.6	Depth to Well Bottom (ft.):	41

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:32	40.60											Well too dry to pump water all the way out. Pumped what we could and

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval: 28 - 38

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	9

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 11-01-2019 Time: 09:19

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.28		
Initial Depth to Water (ft.):	40.1	Depth to Well Bottom (ft.):	41.85

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	^{o}C			
09:31	40.10			6.75	75.60	66.60	265.00	0.07	16.40	Muddy		Bailer

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons): 0.5

Field Parameters

STABILIZED PARAMETERS	
pH	6.75
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	265.00
Temp.(^{o}C)	16.40
DO (mg/L)	75.60
ORP (mV)	66.60

Screen Interval:

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SAMPLE SET				
Parameter	**Bottle**	**Pres.**	**Method**	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Date: 11-05-2019 Time: 09:19

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.285		
Initial Depth to Water (ft.):	39.99	Depth to Well Bottom (ft.):	41.77

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
09:20	39.99		0.25	9.1	6.23	171.60	120.00	0.10	18.50	Cloudy	None	Using bailer to develop well dry, second time.

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	9.10
Spec. Cond.(mS/cm)	0.10
Turbidity (NTU)	120.00
Temp.(°C)	18.50
DO (mg/L)	6.23
ORP (mV)	171.60

Screen Interval: 28 - 38

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	59.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	1

RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville | Well ID: PW-09 | Well Diameter: 2 Inches

Samplers: CHARLES PACE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump | Date: 10-18-2019 | Time: 10:59

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.181		
Initial Depth to Water (ft.):	25.33	Depth to Well Bottom (ft.):	57.71

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:20				9.21	3.92	33.90	613.00	0.14	17.63	Cloudy	No	
11:45				9.32	3.47	38.80	496.00	0.13	17.52	Cloudy	No	Well is running dry but recharging quickly, we are pumping dry and
12:30				9.03	2.29	14.80	289.00	0.11	17.43	Cloudy	No	Have not been steadily pumping, will let recharge then pump dry
13:00				8.11	1.85	-23.10	201.00	0.10	17.62	Cloudy	No	
13:15				7.78	1.76	-38.00	171.00	0.09	17.52	Cloudy	No	
13:30				7.61	1.86	-46.00	153.00	0.09	17.59	Cloudy	No	
13:45				7.54	1.88	-49.70	148.00	0.09	17.48	Cloudy	No	
14:00				7.51	1.87	-32.00	142.00	0.09	17.50	Cloudy	No	
14:20				7.31	1.68	-35.90	128.00	0.09	17.50	Cloudy	No	
14:25				7.27	1.75	-36.90	127.00	0.09	17.51	Cloudy	No	

Sampling Data

Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	7.27
Spec. Cond.(mS/cm)	0.09
Turbidity (NTU)	127.00
Temp.(°C)	17.51
DO (mg/L)	1.75
ORP (mV)	

Screen Interval: 44 - 54

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	59.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-10R	Well Diameter:	2 Inches
Samplers:	KEN STUART Michael Wang	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

	Pump Depth:				
	Pump Loc:	within screen			
Method:	Electric Submersible Pump	Date:	10-23-2019	Time:	11:46

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	6.832		
Initial Depth to Water (ft.):	27.83	Depth to Well Bottom (ft.):	70.53

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
12:39	52.16	4800.00	11.60	6.03	27.50	28.00	793.00	0.07	17.97	Grey	Sulfuric smell	DO unit is percent not mg/l throughout the readings below.
12:44	54.13	4800.00	15.00	5.99	8.40	10.90	755.00	0.07	18.01	15.00	Grey	Sulfuric smell
12:49	54.48	4800.00	5.00	6	6.10	6.70	728.00	0.07	18.03	Grey	Sulfuric smell	
12:54	54.94	4800.00	5.00	5.98	6.00	5.10	507.00	0.07	18.04	Grey	Sulfuric smell	
12:59	54.97	4800.00	5.00	5.96	5.30	5.80	238.00	0.07	18.07	Light grey	Sulfuric smell	
13:04	54.89	4800.00	5.00	5.95	4.80	5.40	157.00	0.08	18.10	Light grey	Sulfuric smell	DO input unit is percent but not mg/l
13:10	54.85	4800.00	5.00	5.93	4.30	6.70	224.00	0.08	18.08	Light grey	Sulfuric smell	
13:15	55.02	4800.00	5.00	5.93	0.31	6.30	124.00	0.08	18.11	Clear	Sulfuric smell	DO unit switched from percentage to mg/l
13:20	55.15	4800.00	5.00	5.91	0.26	7.30	106.00	0.08	18.07	Clear	No	
13:25	55.16	4800.00	5.00	5.89	0.27	8.10	90.30	0.08	18.07	Clear	No	Cut off the pump and dump IDW water.
14:18	52.28	4800.00	10.00	5.71	0.19	23.10	139.00	0.08	18.05	Clear	No odor	Started pumping at 1408. Initial water level was at 28.07 ft from top
14:23	53.68	4800.00	5.00	5.83	0.19	15.30	169.00	0.07	18.04	Clear	Sulfuric smell	169.00
14:29	54.22	4800.00	5.00	5.82	0.12	15.00	117.00	0.07	18.05	Clear	Sulfuric smell	
14:34	55.02	4800.00	5.00	5.82	0.15	15.00	133.00	0.07	18.04	Light grey	No odor	
14:39	55.44	4800.00	5.00	5.81	0.17	15.20	106.00	0.07	18.04	Clear	Sulfuric smell	
14:44	55.75	4800.00	5.00	5.83	0.14	15.20	91.00	0.07	18.03	Clear	Same odor	
14:49	55.58	4800.00	5.00	5.81	0.15	15.10	176.00	0.07	18.04	Clear	Same odor	
14:55	55.30	4800.00	5.00	5.79	0.12	15.80	70.50	0.07	18.04	Clear	No odor	
15:01	55.36	4800.00	5.00	5.78	0.16	16.10	60.10	0.07	18.04	Clear	Same odor	
15:05	55.38	4800.00	5.00	5.78	0.26	16.20	52.60	0.07	18.04	Clear	Same odor	
15:11	55.39	4800.00	5.00	5.77	0.01	16.60	47.10	0.07	18.05	Clear	Same odor	
15:14		4800.00	5.00	5.76	-0.31	17.50		0.07	18.06	Clear	Same odor	Pump cut off at 15:14. No depth to water and turbidity reading was
16:07	50.28	4800.00	5.00	5.8	1.34	24.10	123.00	0.07	17.99	Clear	Sulfuric smell	Pump reconnected at 1602. Initial water level = 28.09 ft from top of
16:15	52.78	4800.00	8.00	5.8	0.50	22.10	94.00	0.07	18.00	Clear	Same odor	
16:21	53.40	4800.00	5.00	5.78	0.28	21.50	81.30	0.07	18.01	Clear	No	
16:25	53.57	4800.00	5.00	5.77	0.18	21.30	66.50	0.07	18.01	Clear	Same odor	
16:31	53.70	4800.00	6.00	5.76	0.15	20.90	57.20	0.07	18.01	Clear	Same odor	
16:38	53.75	4800.00	8.00	5.75	0.14	20.50	46.50	0.07	18.01	Clear	Same odor	
16:43	53.82	4800.00	5.00	5.74	0.10	20.40	42.50	0.07	18.01	Clear	Same odor	
16:49	54.19	4800.00	6.00	5.74	0.11	20.60	42.80	0.07	18.01	Clear	Same odor	
16:54	54.16	4800.00	5.00	5.73	0.11	20.40	37.10	0.07	18.01	Clear	Same odor	
16:59	54.11	4800.00	5.00	5.73	0.10	20.20	35.40	0.07	18.01	Clear	Same odor	1700 stopped purging. Turbidity under 50 NTU for four readings and

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.73
Spec. Cond.(mS/cm)	0.07

Screen Interval:

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	

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Turbidity (NTU)	35.40
Temp.(^{o}C)	18.01
DO (mg/L)	0.10
ORP (mV)	20.20

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PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:	
DuplicateID:	

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-13	Well Diameter:	2 Inches
Samplers:	BEN KRAUSE Ali Vo	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 131.2

Pump Loc: bottom of well

Method: Double valve pump Date: 11-01-2019 Time: 09:45

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	16.238		
Initial Depth to Water (ft.):	29.76	Depth to Well Bottom (ft.):	131.25

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:30	33.92	360.00	1.44	10.11	0.23	-218.10	1000.00	0.31	18.03	Cloudy	No odor	Turbidity meter maxed out
10:45	38.55	360.00	1.44	9.98	0.20	-206.90	1000.00	0.29	18.89	Cloudy	No odor	
11:00	41.41	360.00	1.44	9.22	0.18	-203.60	1000.00	0.20	19.24	Cloudy	No odor	Turbidity meter maxed out
11:15	42.88	360.00	1.44	8.26	0.16	-174.80	1000.00	0.15	19.10	Cloudy	No odor	
11:30	43.66	360.00	1.44	7.31	0.19	-134.70	1000.00	0.13	19.16	Cloudy	No odor	Turbidity meter maxed out
11:45	44.17	360.00	1.44	6.92	0.23	-114.30	1000.00	0.12	19.15	Cloudy	NA	Slightly less turbid but still exceeds limits of meter
12:00	44.45	360.00	1.44	6.87	0.26	-120.10	1000.00	0.11	19.52	Cloudy	No odor	
12:15	44.77	360.00	1.44	6.69	0.22	-115.80	880.00	0.11	19.52	Cloudy	No odor	
12:30	44.92	360.00	1.44	6.59	0.22	-115.50	783.00	0.10	19.62	Cloudy	No odor	
12:45	44.95	360.00	1.44	6.56	0.20	-116.50	626.00	0.10	19.59	Cloudy	No odor	
13:00	44.95	360.00	1.44	6.52	0.19	-119.80	591.00	0.10	19.62	Cloudy	No odor	
13:15	45.08	360.00	1.44	6.47	0.02	-120.40	506.00	0.10	19.58	Cloudy	No odor	
13:30	45.21	360.00	1.44	6.45	0.18	-122.10	532.00	0.10	19.47	Cloudy	No odor	
13:45	45.28	360.00	1.44	6.44	0.04	-126.90	469.00	0.10	19.58	Cloudy	No odor	
14:00	45.28	360.00	1.44	6.42	0.25	-128.20	479.00	0.10	19.79	Cloudy	No odor	
14:15	45.29	360.00	1.44	6.33	0.17	-127.90	452.10	0.09	19.62	Cloudy	No odor	

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.33
Spec. Cond.(mS/cm)	0.09
Turbidity (NTU)	452.10
Temp.(°C)	19.62
DO (mg/L)	0.17
ORP (mV)	

Screen Interval: 120 - 130

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	44.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

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RECORD OF WELL DEVELOPMENT

Site Name:	Chemours Fayetteville	Well ID:	PW-13	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER K. Stuart	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:					
Pump Loc:	bottom of well				
Method:	Electric Submersible Pump	Date:	11-04-2019	Time:	15:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	15.598		
Initial Depth to Water (ft.):	33.32	Depth to Well Bottom (ft.):	130.81

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	^{o}C			
15:40	62.88	3000.00	11.88	9.64	0.86	16.50	999.00	0.25	19.42	Gray	None	
15:55	66.40	3000.00	10.30	7.46	0.44	-84.30	999.00	0.12	19.34	Gray	None	Slowed pump rate from 3000 to 2400 ml/min
16:10	55.78	3000.00	9.51	6.79	0.29	-39.00	822.00	0.10	19.19	Brown	None	
16:25	53.31	3000.00	11.88	6.49	0.27	-18.70	492.00	0.10	19.14	Cloudy brown	None	Flow rate back at 3000ml/min
16:40	52.73	3000.00	11.88	6.38	0.23	-11.80	345.00	0.10	19.11	Cloudy brown	None	Last reading for today, will continue developing in the morning

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.38
Spec. Cond.(mS/cm)	0.10
Turbidity (NTU)	345.00
Temp.(^{o}C)	19.11
DO (mg/L)	0.23
ORP (mV)	

Screen Interval: 120 - 130

SAMPLE SET				
Parameter	**Bottle**	**Pres.**	**Method**	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	67.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

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RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville | Well ID: PW-13 | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER K. Stuart | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Electric Submersible Pump | Date: 11-05-2019 | Time: 09:56

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	-4.998		
Initial Depth to Water (ft.):	31.24	Depth to Well Bottom (ft.):	

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:05	51.58	3840.00	5.94	7.17	1.63	40.60	999.00	0.10	19.30	Gray	None	Flow rate at 4500ml/min
10:20	56.37	3840.00	17.83	6.43	1.04	26.20	478.00	0.08	19.30	Grayish tan	None	
10:35	55.98	3840.00	17.83	6.2	2.17	20.10	211.00	0.08	19.20	Light tan	None	
10:50	54.71	3840.00	17.83	6.27	1.28	26.50	347.00	0.08	19.30	Light tan	None	
11:05	55.21	3840.00	15.22	6.1	1.28	23.80	172.00	0.08	19.30	Light tan	None	
11:20	55.11	3840.00	15.22	6.06	1.33	23.40	111.00	0.08	19.30	Light tan	None	
11:35	53.51	3840.00	15.22	6.05	1.33	22.20	98.80	0.07	19.30	Light tan	None	Break for lunch after this reading
13:45	34.16	3840.00	5.94	6.19	1.66	82.90	606.00	0.08	19.40	Light brown	None	Back from lunch, flow rate is now 4500ml/min
14:00	51.59	3840.00	17.83	5.69	1.21	63.60	421.00	0.08	19.40	Light tan	None	
14:15	51.96	3840.00	17.83	5.79	1.28	50.90	139.00	0.07	19.30	Light tan	None	
14:30	52.31	3840.00	17.83	5.81	1.32	46.40	111.00	0.07	19.30	Light tan	None	
14:45	51.24	3840.00	17.83	5.85	1.30	41.30	86.60	0.07	19.30	Light tan	None	
15:00	52.58	3840.00	17.83	5.87	1.28	37.60	77.60	0.07	19.30	Cloudy	None	
15:15	52.38	3840.00	17.83	5.89	1.25	34.70	60.30	0.07	19.30	Cloudy	None	
15:30	52.03	3840.00	17.83	5.92	1.17	31.80	66.00	0.07	19.30	Cloudy	None	Stopped developing to empty tote.
16:00	50.10	3840.00	11.09	5.64	0.48	76.00	273.00	0.08	19.30	Light tan	None	Pump rate 4200ml/min
16:10	51.89	3840.00	11.09	5.78	0.56	55.40	123.00	0.07	19.30	Light tan	None	
16:20	51.91	3840.00	11.09	5.86	0.70	47.30	83.80	0.07	19.30	Cloudy	None	
16:30	51.89	3840.00	11.09	5.88	0.86	42.80	69.40	0.07	19.30	Cloudy	None	
16:40	51.88	3840.00	11.09	5.89	0.95	39.80	63.70	0.07	19.30	Cloudy	None	

Sampling Data

Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.89
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	63.70
Temp.(°C)	19.30
DO (mg/L)	0.95
ORP (mV)	39.80

Screen Interval: 120 - 130

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Sunny
Precipitation:	None

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Wind (mph)	1

RECORD OF DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: Robeson-1S

Well Diameter: Inches

Samplers: Michael Wang

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 10/17/2019 Time: 1233

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 11.54 Depth to Well Bottom (ft.): 28.23

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1233		6375.00										Started purging.
1253	16.97											cut the pump off, purge the well
1258	16.70											reconnected the pump
1318	15.13			5.00	8.46	167.00	42.10	0.050	22.64			reconected.
1333												cutt off the pump
1338				4.89	7.45	170.00	8.40	0.046	22.81			recoonected the pump
1353												disconnected the pump
1507	11.49											
1510												started pumping
1523	11.55			5.06	6.67	155.00	0.00	0.049	22.85			
1525												disconnected and purged
1530												reconnected
1545												disconnected and purged
1550												reconnected
1615				5.3	5.29	122.70	5.20	0.054	21.55			

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons): 220

Field Parameters

STABILIZED PARAMETERS	
pH	5.30
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	5.20
Temp.(°C)	21.55
DO (mg/L)	5.29
ORP (mV)	122.70

Screen Interval: 17-27

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF WELL DEVELOPMENT

Site Name: Chemours Fayetteville
Well ID: Robeson-1D
Well Diameter: 2 Inches

Samplers: BEN KRAUSE Nick Charles
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 50
Pump Loc: bottom of well
Method: Low Flow: SS Monsoon Pump
Date: 10-17-2019
Time: 12:32

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	54.4		
Initial Depth to Water (ft.):	13.5	Depth to Well Bottom (ft.):	54.4

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:11	14.58	6000.00	67.20	7.6	0.00	55.10		0.16	20.27	Cloudy	No	Turbidity exceeded detection limit
13:29	14.63	6000.00	96.00	6.13	42.50	36.30		0.09	20.53	Cloudy	Sulfuric	Turbidity over range
13:51	14.70	6000.00	128.00	5.88	38.20	53.70	75.50	0.07	20.11	Clear	Sulfuric	
15:26	14.55	6000.00	158.00	5.68	60.60	87.80	178.00	0.07	20.80	Clear	Sulfuric	
15:41	14.55	6000.00	188.00	5.1	45.20	106.20	8.87	0.06	20.69	Clear	Sulfuric	
15:56	14.62	6000.00	218.00	5.3	46.80	93.20	737.00	0.06	20.13	Cloudy	Sulfuric	
16:11	14.65	6000.00	248.00	5.04	44.00	99.30	104.00	0.06	20.35	Clear	Sulfuric	
16:26	14.69	6000.00	278.00	4.98	44.30	102.00	19.30	0.06	19.99	Clear	Sulfuric	

Sampling Data

Zero HS:
Method:
Date:
Time:
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.98
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	19.30
Temp.(°C)	19.99
DO (mg/L)	44.30
ORP (mV)	102.00

Screen Interval: 42.75 - 52.75

SAMPLE SET			
Parameter	Bottle	Pres.	Method
PFAS	2-250 mL poly	NP	EPA 537 Modified
PFAS	250 mL poly	NP	Table 3
PFAS	250 mL poly	NP	Table 3+

Sample ID:
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

RECORD OF DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: PIW-2D

Well Diameter: Inches

Samplers: Brandon Peach and Savannah Volkoff

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date: 10/31/2019

Time: 1400

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 36.85

Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1415	35.61			6.24	11.47	138.30	278.00	0.09	20.50			
1420	38.95			5.81	9.80	165.00	263.00	0.085	19.20			
1425	40.43	150.00		5.63	9.73	159.10	201.00	0.082	19.00			
1435	40.39	150.00		5.8	9.63	137.00	142.00	0.078	19.40			
1440	-	150.00		5.8	8.86	131.70	58.70	0.075	19.30			
1445	40.97	150.00		5.8	8.07	130.00	58.60	0.075	19.20			
1450	41.01	150.00		5.79	7.63	129.20	54.60	0.074	19.30			
1455	41.07	150.00		5.79	7.70	128.30	33.80	0.072	19.20			
1500	-	150.00		5.79	7.19	128.00	31.80	0.072	19.20			
1505	41.13	150.00		5.76	7.01	128.10	31.90	0.071	19.20			
1510	41.17	150.00		5.75	6.73	128.70	28.50	0.071	19.20			
1515	-	150.00		5.75	6.10	126.70	25.00	0.071	19.20			
1520	-	150.00		5.77	6.03	124.80	25.10	0.071	19.20			
1525	-	150.00		5.76	5.91	124.40	29.00	0.071	19.20			

Sampling Data

Zero HS:

Method:

Date:

Time:

Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.76
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	29.00
Temp.(°C)	19.20
DO (mg/L)	5.91
ORP (mV)	124.40

Screen Interval:

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: PW-12

Well Diameter: Inches

Samplers: Brandon Peach and Savannah Volkoff

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 10/31/2019 Time: 9:55

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 58.4 Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
0955												
1005	58.20	575.00		5.57	5.77	141.40	441.00	0.052	18.40			
1020	58.14	500.00		5.73	5.89	118.10	242.00	0.052	18.50			
1035	58.10	500.00		5.76	6.43	110.00	148.00	0.052	18.60			
1050	58.12	500.00		5.81	6.47	100.40	88.60	0.051	18.60			
1105	58.10	500.00		5.83	6.76	96.80	78.50	0.051	18.30			
1120	58.10	500.00		5.84	6.51	93.80	50.80	0.051	18.30			
1135	58.10	500.00		5.86	6.73	91.30	37.90	0.051	18.30			
1150	58.10	500.00		5.88	6.87	89.10	29.80	0.051	18.50			
1155	58.10	500.00		5.88	7.02	88.30	27.40	0.051	18.30			
1200	58.20	500.00		5.89	7.20	88.10	26.20	0.051	18.30			
1205	58.10	500.00		5.89	7.03	87.50	23.20	0.051	18.50			
1210	58.10	500.00		5.91	7.40	86.20	24.60	0.051	18.30			
1215	58.10	500.00		5.92	7.29	85.80	22.00	0.051	18.40			
1220	58.10	500.00		5.91	7.77	85.00	22.40	0.051	18.30			
1225	58.10	500.00		5.92	7.49	82.40	21.80	0.051	18.30			
1230	58.10	500.00		5.92	7.02	85.10	21.70	0.051	18.30			

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.92
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	21.70
Temp.(°C)	18.30
DO (mg/L)	7.02
ORP (mV)	85.10

Screen Interval:

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF DEVELOPMENT

Site Name: Chemours Fayetteville

Well ID: P1W-15R

Well Diameter: Inches

Samplers: Brandon Peach and Savannah Volkoff

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 10/30/2019 Time: 1510

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 54.32 Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1520	60.47	800.00		7.48	2.01	46.40	184.00		19.00			
1535	59.63	750.00		6.37	4.72	74.30	65.50		19.00			
1550	61.27	750.00		5.7	16.50	134.40	96.00		18.70			
1609	61.05	750.00		5.25	23.60	140.10	15.00		18.80			
1615	61.27	750.00		5.99	18.58	143.10	9.75		18.80			
1620	61.25	750.00		5.55	18.11	141.60	8.55		18.90			
1625	61.31	750.00		5.43	19.09	148.30	13.90		18.80			
1630	60.91	750.00		5.42	18.54	147.60	13.60		18.20			
1635	61.30	750.00		5.48	19.51	148.00	4.91		18.80			

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.48
Spec. Cond.(mS/cm)	
Turbidity (NTU)	4.91
Temp.(°C)	18.80
DO (mg/L)	19.51
ORP (mV)	148.00

Screen Interval:

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF WELL SAMPLING

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	Bladen-1S	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER Justin Hobart	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Low Flow: Geo Pump Date: 10-22-2019 Time: 10:50

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0		
Initial Depth to Water (ft.):		Depth to Well Bottom (ft.):	

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
18:12												Well is dry

Sampling Data

Zero HS:

Method: Date: 10-22-2019 Time: 18:12 Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval: 5 - 10

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-1S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	2

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Bladen-1D | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER K. Stuart | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Low Flow: Geo Pump | Date: 11-07-2019 | Time: 13:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.032		
Initial Depth to Water (ft.):	19.75	Depth to Well Bottom (ft.):	38.7

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:45	19.79	100.00		8.78	0.78	149.70	50.10	0.14	21.60	Clear		
13:51	19.79	100.00		8.84	0.54	87.20	34.70	0.14	22.90	Clear		
13:54	19.79	100.00		8.7	0.51	57.30	25.70	0.13	23.10	Clear	Sulfur like odor	
14:00	19.79	100.00		8.33	0.50	-34.90	20.70	0.13	22.40	Clear	Sulfur	
14:05	19.79	100.00		7.95	0.53	-56.70	18.10	0.13	22.20	Clear		
14:10	19.79	100.00		7.57	0.54	-56.00	17.30	0.13	22.40	Clear	Sulfur like odor	
14:15	19.79	100.00		7.45	0.53	-66.50	18.00	0.13	22.50	Clear	Sulfur like smell	
14:20	19.79	100.00		7.33	0.57	-56.30	14.00	0.13	22.70	Clear	Sulfur like odor	
14:25	19.79	100.00		7.18	0.58	-54.70	15.20	0.12	22.40	Clear	Sulfur like odor	
14:30	19.79	100.00		7.08	0.54	-51.40	13.00	0.13	22.60	Clear	Sulfur like odor	

Sampling Data

Zero HS:

Method: | Date: 11-07-2019 | Time: 14:31 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	7.08
Spec. Cond.(mS/cm)	0.13
Turbidity (NTU)	13.00
Temp.(°C)	22.60
DO (mg/L)	0.54
ORP (mV)	

Screen Interval: 37 - 47

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-1D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Bladen-2S | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER Justin Hobart | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Low Flow: Geo Pump | Date: 10-22-2019 | Time: 11:27

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.974		
Initial Depth to Water (ft.):	7.39	Depth to Well Bottom (ft.):	19.73

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:55	8.40	120.00		5.83	1.13	38.50	8.93	0.06	24.51	Clear	None	
11:58	8.61	120.00		5.82	0.72	10.10	7.54	0.05	24.71	Clear	None	
12:03	8.69	120.00		5.84	0.64	-4.20	8.69	0.06	24.84	Clear	None	
12:08	8.72	120.00		5.9	0.57	-14.50	8.08	0.06	24.90	Clear	None	
12:13	8.73	120.00		5.96	0.59	-11.40	6.90	0.06	24.75	Clear	None	
12:18	8.75	120.00		6.03	0.47	-29.20	7.07	0.06	24.75	Clear	None	
12:22	8.76	120.00		6.06	0.48	-29.40	6.35	0.07	24.62	Clear	None	
12:28	8.78	120.00		6.1	0.44	-33.50	6.64	0.07	24.70			

Sampling Data

Zero HS:

Method: | Date: 10-22-2019 | Time: 12:30 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.10
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	6.64
Temp.(°C)	24.70
DO (mg/L)	0.44
ORP (mV)	

Screen Interval: 10 - 20

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-2S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	5

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Bladen-3D | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER B.Peach | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 37.7

Pump Loc: within screen

Method: Double valve pump | Date: 10-28-2019 | Time: 11:24

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.467		
Initial Depth to Water (ft.):	10.51	Depth to Well Bottom (ft.):	44.68

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
12:00	13.25	400.00		6.22	1.20	54.20	127.00	0.11	21.00	Cloudy	None	
12:05	13.91	400.00		5.9	0.70	56.10	153.00	0.10	20.90	Cloudy	None	
12:10	14.22	400.00		5.86	0.51	52.60	159.00	0.10	21.20	Cloudy	None	
12:15	14.51	400.00		5.89	0.48	44.60	83.30	0.10	20.80	Cloudy	None	
12:20	14.63	400.00		5.88	0.54	42.00	62.60	0.10	20.70	Cloudy	None	
12:25	14.75	400.00		5.87	0.56	42.60	46.80	0.10	20.70	Cloudy	None	
12:30	14.84	400.00		5.86	0.56	41.80	41.00	0.09	20.70	Cloudy	None	
12:35	14.90	400.00		5.84	0.53	42.70	46.70	0.09	20.70	Cloudy	None	
12:40	14.93	400.00		5.84	0.54	42.60	38.00	0.09	20.70	Cloudy	None	
12:45	14.97	400.00		5.83	0.31	41.70	35.60	0.08	20.60	Cloudy	None	
12:52	14.99	400.00		5.78	0.30	42.50	30.40	0.09	20.70	Cloudy	None	
13:00	15.05	400.00		5.8	0.32	41.50	27.10	0.09	20.60	Cloudy	None	
13:05	15.02	400.00		5.82	0.30	39.40	23.50	0.09	20.60	Cloudy	None	
13:12	15.26	400.00		5.8	0.29	41.40	23.00	0.08	20.50	Clear	None	
13:15	15.23	400.00		5.79	0.30	41.60	24.30	0.09	20.50	Clear	None	
13:20	15.28	400.00		5.8	3.05	46.90	24.60	0.09	20.40	Clear	None	
13:30	15.11	400.00		5.79	0.86	49.30	18.40	0.08	21.00	Clear	None	
13:50	14.85	400.00		6.08	0.39	23.80	21.20	0.10	20.90	Clear	None	Compressor turns off and couldn't sample last 15 mins.
13:55	12.67	400.00		5.97	0.26	30.30	21.50	0.09	21.10	Clear	None	
13:55	12.98	400.00		5.88	0.30	35.80	35.20	0.08	21.10	Clear	None	
14:00	13.68	400.00		5.83	0.46	39.60	36.50	0.08	20.90	Clear	None	
14:05	13.30	400.00		5.83	0.27	37.00	26.80	0.08	21.90	Clear	None	
14:10	12.71	400.00		5.89	0.20	33.00	26.50	0.08	21.90	Clear	None	Changed flow to 5 secs every 25 secs to reduce draw down
14:15	12.51	400.00		5.88	0.19	32.50	21.40	0.08	22.00	Clear	None	
14:20	12.44	400.00		5.88	0.19	32.00	20.00	0.08	22.00	Clear	None	
14:25	12.40	400.00		5.88	0.19	31.00	15.80	0.08	21.80	Clear	None	
14:29	12.34	400.00		5.87	0.20	31.00	15.40	0.08	21.70	Clear	None	

Sampling Data

Zero HS:

Method: Dedicated tubing | Date: 10-28-2019 | Time: 14:30 | Total Volume Purged (gallons): 9.06

Field Parameters

STABILIZED PARAMETERS	
pH	5.87
Spec. Cond.(mS/cm)	0.08
Turbidity (NTU)	15.40
Temp.(°C)	21.70
DO (mg/L)	0.20

Screen Interval: 33.75 - 43.75

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

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ORP (mV)	31.00

Sample ID:	GW4Q19-Bladen-3D
DuplicateID:	

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	Bladen-3S	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER A. Vo	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 12

Pump Loc: within screen

Method: Low Flow: Geo Pump Date: 10-28-2019 Time: 11:25

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.789		
Initial Depth to Water (ft.):	9.58	Depth to Well Bottom (ft.):	14.51

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:45	9.58	180.00		7.94	5.63	61.40	1.14	0.05	26.53			
11:53	9.59	180.00		5.82	5.26	114.70	1.10	0.03	25.70			
11:57	9.58	180.00		5.25	4.69	122.80	1.23	0.02	25.70			
12:00	9.60	180.00		5.31	4.82	121.30	1.03	0.03	25.55			
12:05	9.61	180.00		5.31	4.98	124.40	0.62	0.02	25.07			

Sampling Data

Zero HS:

Method: Peristaltic Pump Date: 10-28-2019 Time: 12:05 Total Volume Purged (gallons): 1.03

Field Parameters

STABILIZED PARAMETERS	
pH	5.31
Spec. Cond.(mS/cm)	0.02
Turbidity (NTU)	0.62
Temp.(°C)	25.07
DO (mg/L)	4.98
ORP (mV)	124.40

Screen Interval: 5 - 15

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-3S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	74.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

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RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	Bladen-4D	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER S. Volkoff	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Double valve pump Date: 10-25-2019 Time: 11:13

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.05		
Initial Depth to Water (ft.):	1.41	Depth to Well Bottom (ft.):	51.72

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
12:15	1.62	640.00		6.29	0.03	-69.90	32.00	0.43	22.15	Clear	None	
12:20	1.81	640.00		6.27	0.02	-69.10	25.60	0.42	22.13	Clear	None	
12:25	1.80	640.00		6.31	0.02	-74.00	19.20	0.42	22.02	Clear	None	
12:30	1.82	640.00		6.31	0.02	-75.30	13.90	0.42	21.98	Clear	Nonw	
12:35	1.83	640.00		6.31	0.02	-76.30	9.29	0.42	21.80	Clear	None	
12:40	1.83	640.00		6.26	0.02	-76.30	5.49	0.42	21.91	Clear	None	

Sampling Data

Zero HS:

Method: Dedicated tubing Date: 10-25-2019 Time: 12:45 Total Volume Purged (gallons): 5.11

Field Parameters

STABILIZED PARAMETERS	
pH	6.26
Spec. Cond.(mS/cm)	0.42
Turbidity (NTU)	5.49
Temp.(°C)	21.91
DO (mg/L)	0.02
ORP (mV)	

Screen Interval: 46.75 - 51.75

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-4D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	77.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: Bladen-4S
Well Diameter: 2 Inches
Samplers: BRANDON WEIDNER Justin Hobart
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data
Pump Depth:
Pump Loc: within screen
Method: Low Flow: Geo Pump
Date: 10-22-2019
Time: 13:12

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.48		
Initial Depth to Water (ft.):	5.74	Depth to Well Bottom (ft.):	14.99

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:42	5.74	170.00		5.78	2.85	20.30	32.90	0.08	27.29	Clear	None	
13:47	5.75	170.00		5.76	1.60	4.90	28.90	0.08	27.35	Clear	None	
13:52	5.75	170.00		5.75	1.04	-7.00	24.60	0.08	27.38	Clear	None	
13:57	5.75	170.00		5.74	0.98	-8.30	24.50	0.07	27.33	Clear	None	
14:02	5.75	170.00		5.73	0.81	-18.60	23.40	0.07	27.37	Clear	None	
14:07	5.75	170.00		5.73	0.82	-24.80	22.20	0.07	27.37	Clear	None	
14:12	5.75	170.00		5.74	0.83	-26.30	21.80	0.07	27.42	Clear	None	
14:17	5.75	170.00		5.74	0.71	-25.90	21.80	0.07	27.52	Clear	None	
14:22	5.75	170.00		5.73	0.64	-30.80	22.20	0.07	27.60	Clear	None	
14:27	5.75	170.00		5.72	0.66	-31.50	22.00	0.07	27.59	Clear	None	
14:32	5.75	170.00		5.72	0.60	-33.30	22.40	0.07	27.49	Clear	None	
14:37	5.75	170.00		5.71	0.65	-34.80	22.40	0.07	27.60	Clear	None	Start pumping 5x well volume, due to high turb but stable parameters
14:42	5.75	170.00		5.72	0.65	-36.70	22.30	0.07	27.67	Clear	None	
14:47	5.75	170.00		5.71	0.55	-37.30	22.20	0.07	27.65	Clear	None	
14:52	5.75	170.00		5.71	0.55	-38.90	22.50	0.07	27.54	Clear	None	
14:57	5.75	170.00		5.71	0.57	-38.80	22.30	0.07	27.61	Clear	None	
15:02	5.75	170.00		5.7	0.59	-39.30	21.80	0.07	27.52	Clear	None	
15:07	5.75	170.00		5.7	0.57	-39.20	22.20	0.07	27.49	Clear	None	
15:12	5.75	170.00		5.71	0.58	-40.10	23.20	0.07	27.57	Clear	None	
15:17	5.75	170.00		5.7	0.55	-40.60	22.20	0.07	27.52	Clear	None	
15:22	5.75	170.00		5.71	0.55	-40.40	22.30	0.07	27.42	Clear	None	
15:27	5.75	170.00		5.71	0.51	-40.20	22.50	0.07	27.39	Clear	None	
15:32	5.75	170.00		5.71	0.54	-40.10	22.50	0.07	27.29	Clear	None	
15:37	5.75	170.00		5.7	0.58	-41.30	22.80	0.07	27.29	Clear	None	
15:42	5.75	170.00		5.69	0.57	-40.10	22.30	0.07	27.29	Clear	None	
15:47	5.75	170.00		5.69	0.58	-38.80	22.90	0.07	27.29	Clear	None	
15:52	5.75	170.00		5.69	0.56	-38.00	22.60	0.07	27.27	Clear	None	
15:57	5.75	170.00		5.69	0.55	-39.80	22.00	0.07	27.22	Clear	None	
16:02	5.75	170.00		5.68	0.50	-38.90	22.50	0.06	27.21	Clear	None	
16:07	5.75	170.00		5.69	0.61	-38.00	29.30	0.07	27.24	Clear	None	Accidentally hit flow cell, iron precipitate floating around cell
16:12	5.75	170.00		5.69	0.59	-40.30	22.90	0.07	27.20	Clear	None	
16:17	5.75	170.00		5.69	0.56	-38.60	22.90	0.07	27.19	Clear	None	
16:22	5.75	170.00		5.69	0.57	-39.10	22.90	0.07	27.24	Clear	None	
16:27	5.75	170.00		5.68	0.55	-39.80	22.40	0.07	27.19	Clear	None	
16:32	5.75	170.00		5.68	0.57	-40.40	22.50	0.07	27.20	Clear	None	
16:37	5.75	170.00		5.68	0.56	-41.30	22.30	0.07	27.28	Clear	None	
16:42	5.75	170.00		5.68	0.55	-42.40	22.50	0.07	27.36	Clear	None	
16:46	5.75	170.00		5.68	0.55	-42.70	22.20	0.07	27.26	Clear	None	Purged 5x well volume, sampled

Sampling Data

Zero HS:

Method:

Date: 10-22-2019 Time: 16:50 Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.68
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	22.20
Temp.(^{o}C)	27.26
DO (mg/L)	0.55
ORP (mV)	

Screen Interval:

4.75 - 14.75

SAMPLE SET				
Parameter	**Bottle**	**Pres.**	**Method**	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Bladen-4S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	76.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	Cumberland-1D	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER Mike Wang	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 45

Pump Loc: within screen

Method: Double valve pump Date: 10-24-2019 Time: 09:20

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	6.893		
Initial Depth to Water (ft.):	7.28	Depth to Well Bottom (ft.):	50.36

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:10	7.68	480.00		5.29	1.18	-39.90	297.00	0.13	20.40	Cloudy	Yes	
10:15	7.45	480.00		5.28	0.88	-95.50	117.00	0.12	20.63	Cloudy	Yes	
10:20	7.51	480.00		5.3	0.68	-119.40	73.50	0.13	20.59	Cloudy	Yes	
10:25	7.45	480.00		5.31	0.59	-132.90	44.50	0.13	20.66	Cloudy	Yes	Sulfur smell
10:30	7.45	480.00		5.3	0.47	-137.90	39.80	0.13	20.71	Cloudy	Yes	
10:35	7.50	480.00		5.27	0.38	-142.60	30.20	0.13	20.73	Cloudy	Yes	
10:40	7.47	480.00		5.26	0.37	-144.10	20.50	0.13	20.76	Cloudy	Yes	
10:45	7.48	480.00		5.22	0.35	-136.90	16.30	0.13	20.78	Clear	Yes	
10:50	7.48	480.00		5.15	0.34	-128.60	14.10	0.13	20.90	Clear	Yes	Sulfur smell

Sampling Data

Zero HS:

Method: Date: 10-24-2019 Time: 10:55 Total Volume Purged (gallons): 5.9

Field Parameters

STABILIZED PARAMETERS	
pH	5.15
Spec. Cond.(mS/cm)	0.13
Turbidity (NTU)	14.10
Temp.(°C)	20.90
DO (mg/L)	0.34
ORP (mV)	-128.60

Screen Interval: 40 - 50

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-1D

DuplicateID: GW4Q19-Cumberland-1D-D

WEATHER CONDITIONS	
Temperature (F):	51.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: Cumberland-1S
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 20
Pump Loc: within screen

Method: Peristaltic Pump
Date: 10-24-2019
Time: 09:23

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.893		
Initial Depth to Water (ft.):	7.12	Depth to Well Bottom (ft.):	25.2

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
09:45	7.20	175.00	0.23	4.91	5.67	281.30	1.50	0.11	22.90	Clear	No	
09:50	7.20	175.00	0.23	4.73	6.86	293.60	1.10	0.11	23.10	Clear	No	
09:55	7.21	175.00	0.23	4.63	6.34	304.60	0.92	0.11	23.10	Clear	No	
10:00	7.21	175.00	0.23	4.61	6.15	313.40	0.86	0.11	23.10	Clear	No	
10:05	7.22	175.00	0.23	4.59	6.20	323.20	1.00	0.11	23.20	Clear	No	

Sampling Data

Zero HS:
Method:
Date: 10-24-2019
Time: 10:08
Total Volume Purged (gallons): 1.31

Field Parameters

STABILIZED PARAMETERS	
pH	4.59
Spec. Cond.(mS/cm)	0.11
Turbidity (NTU)	1.00
Temp.(°C)	23.20
DO (mg/L)	6.20
ORP (mV)	323.20

Screen Interval: 15 - 25

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-1S
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Cumberland-2D | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 52

Pump Loc: within screen

Method: Double valve pump | Date: 10-25-2019 | Time: 09:21

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.357		
Initial Depth to Water (ft.):	5.32	Depth to Well Bottom (ft.):	57.55

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:00	5.35	150.00	0.20	6.64	0.44	-108.00	136.00	0.10	20.80	Cloudy	Sulfuric	
10:05	5.31	150.00	0.20	6.7	0.27	-132.60	117.00	0.10	21.00	Semi cloudy	Sulfuric	
10:10	5.35	150.00	0.20	6.73	0.29	-149.30	107.00	0.10	21.00	Slightly cloudy	Sulfuric	
10:15	5.35	150.00	0.20	6.76	0.22	-162.40	98.10	0.10	21.10	Slightly cloudy	Sulfuric	
10:20	5.31	150.00	0.20	6.78	0.32	-177.90	94.60	0.10	21.30	Slightly cloudy	Sulfuric	
10:25	5.32	150.00	0.20	6.77	0.34	-183.60	83.60	0.09	21.90	Slightly cloudy	Sulfuric	
10:30	5.32	150.00	0.20	6.78	0.27	-192.40	79.10	0.09	20.80	Clear	Sulfuric	
10:35	5.32	150.00	0.20	6.77	0.19	-199.30	70.80	0.09	20.70	Clear	Sulfuric	
10:40	5.32	150.00	0.20	6.72	0.21	-209.60	68.60	0.09	20.70	Clear	Sulfuric	
10:45	5.32	150.00	0.20	6.74	0.19	-231.50	65.00	0.09	21.00	Clear	Sulfuric	
10:50	5.32	150.00	0.20	6.78	0.16	-251.70	64.70	0.09	21.20	Clear	Sulfuric	
10:55	5.33	150.00	0.20	6.8	0.21	-274.80	62.60	0.09	21.20	Semi cloudy	No odor	
11:00	5.32	150.00	0.20	6.8	0.18	-305.90	66.30	0.09	21.30	Clear	Sulfuric	
11:05	5.33	150.00	0.20	6.82	0.16	-335.80	57.40	0.08	21.20	Clear	Sulfuric	
11:10	5.35	150.00	0.20	6.8	0.19	-370.40	52.10	0.08	20.90	Clear	No	
11:15	5.33	150.00	0.20	6.79	0.16	-380.80	48.20	0.08	20.80	Clear	No	
11:20	5.33	150.00	0.20	6.79	0.15	-410.20	42.60	0.08	21.30	Clear	No	
11:25	5.35	150.00	0.20	6.81	0.12	-420.30	41.30	0.08	21.10	Clear	No	
11:30	5.33	150.00	0.20	6.79	0.13	-423.10	37.00	0.08	21.50	Clear	No	
11:35	5.33	150.00	0.20	6.78	0.13	-421.60	41.20	0.08	22.10	Clear	No	
11:40	5.34	150.00	0.20	6.75	0.13	-440.90	35.60	0.08	21.20	Clear	No	
11:45	5.35	150.00	0.20	6.79	0.10	-479.90	32.90	0.08	22.00	Clear	No	
11:50	5.33	150.00	0.20	6.81	0.07	-477.30	29.70	0.08	21.90	Clear	No	
11:55	5.35	150.00	0.20	6.76	0.09	-490.20	24.40	0.08	21.90	Clear	No	
12:00	5.33	150.00	0.20	6.87	0.09	-490.30	19.80	0.08	21.20	Clear	No	
12:05	5.32	150.00	0.20	6.85	0.09	-484.90	18.20	0.08	21.50	Clear	No	
12:10	5.33	150.00	0.20	6.8	0.09	-485.30	19.90	0.08	21.60	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-25-2019 | Time: 12:25 | Total Volume Purged (gallons): 5.15

Field Parameters

STABILIZED PARAMETERS	
pH	6.80
Spec. Cond.(mS/cm)	0.08
Turbidity (NTU)	19.90
Temp.(°C)	21.60
DO (mg/L)	0.09
ORP (mV)	

Screen Interval: 47 - 57

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

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Sample ID:	GW4Q19-Cumberland-2D
DuplicateID:	

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: Cumberland-2S
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 12
Pump Loc: within screen

Method: Peristaltic Pump
Date: 10-23-2019
Time: 11:15

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.848		
Initial Depth to Water (ft.):	5.2	Depth to Well Bottom (ft.):	16.75

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:35	5.20	165.00	0.22	5.52	4.26	193.80	1.57	0.06	23.00	Clear	No	
11:40	5.20	165.00	0.22	5.28	4.60	196.30	1.16	0.07	23.10	Clear	No	
11:45	5.20	165.00	0.22	5.16	3.79	205.10	2.34	0.07	23.00	Clear	No	
11:50	5.19	165.00	0.22	5.08	3.83	212.10	1.46	0.07	23.10	Clear	No	
11:55	5.19	165.00	0.22	5.08	3.64	218.10	1.18	0.07	23.10	Clear	No	

Sampling Data

Zero HS:
Method:
Date: 10-23-2019
Time: 12:00
Total Volume Purged (gallons): 1.1

Field Parameters

STABILIZED PARAMETERS	
pH	5.08
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	1.18
Temp.(°C)	23.10
DO (mg/L)	3.64
ORP (mV)	218.10

Screen Interval: 7 - 17

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-2S
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Cumberland-3D | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 24.5

Pump Loc: within screen

Method: Peristaltic Pump | Date: 10-23-2019 | Time: 09:54

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.035		
Initial Depth to Water (ft.):	8.09	Depth to Well Bottom (ft.):	27.06

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:05	8.10	175.00	0.23	8.04	4.39	-197.80	10.60	0.23	21.10	Clear	No	
10:10	8.10	175.00	0.23	7.85	1.75	-207.80	9.74	0.23	21.00	Clear	No	
10:15	8.10	175.00	0.23	7.76	1.30	-215.10	8.85	0.23	21.00	Clear	No	
10:20	8.10	175.00	0.23	7.7	1.26	-219.70	7.16	0.23	21.00	Clear	No	
10:25	8.10	175.00	0.23	7.66	1.14	-223.50	5.34	0.23	21.00	Clear	No	
10:30	8.10	175.00	0.23	7.62	1.12	-224.60	4.95	0.23	21.00	Clear	No	
10:35	8.10	175.00	0.23	7.6	1.08	-226.00	3.77	0.23	21.00	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-23-2019 | Time: 10:37 | Total Volume Purged (gallons): 1.61

Field Parameters

STABILIZED PARAMETERS	
pH	7.60
Spec. Cond.(mS/cm)	0.23
Turbidity (NTU)	3.77
Temp.(°C)	21.00
DO (mg/L)	1.08
ORP (mV)	

Screen Interval: 22 - 27

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-3D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Cumberland-3S | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 11.5

Pump Loc: within screen

Method: Peristaltic Pump | Date: 10-22-2019 | Time: 14:52

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.902		
Initial Depth to Water (ft.):	8.54	Depth to Well Bottom (ft.):	14.18

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
15:05	8.55	175.00	0.23	6.32	1.83	-51.70	10.30	0.08	24.20	Clear	No	
15:10	8.55	175.00	0.23	6.32	1.65	-51.80	10.50	0.08	24.30	Clear	No	
15:15	8.56	175.00	0.23	6.32	1.41	-53.70	12.30	0.08	24.30	Clear	No	
15:20	8.55	175.00	0.23	6.23	2.12	-41.70	10.20	0.13	24.20	Clear	No	
15:25	8.55	175.00	0.23	6.28	2.60	-40.70	9.48	0.18	24.20	Clear	No	
15:30	8.55	175.00	0.23	6.34	2.41	-48.60	9.08	0.18	24.40	Clear	No	
15:35	8.55	175.00	0.23	6.39	2.18	-54.80	8.68	0.18	24.40	Clear	No	
15:40	8.55	175.00	0.23	6.43	2.12	-58.30	9.05	0.17	24.30	Clear	No	
15:45	8.55	175.00	0.23	6.43	1.96	-60.60	9.06	0.18	24.30	Clear	No	
15:50	8.60	175.00	0.23	6.44	1.93	-61.50	8.75	0.18	24.10	Clear	No	

Sampling Data

Zero HS:

Method: Peristaltic Pump | Date: 10-22-2019 | Time: 15:51 | Total Volume Purged (gallons): 2.66

Field Parameters

STABILIZED PARAMETERS	
pH	6.44
Spec. Cond.(mS/cm)	0.18
Turbidity (NTU)	8.75
Temp.(°C)	24.10
DO (mg/L)	1.93
ORP (mV)	

Screen Interval: 9 - 14

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-3S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Cumberland-4D | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Double valve pump | Date: 10-24-2019 | Time: 13:09

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.72		
Initial Depth to Water (ft.):	13.95	Depth to Well Bottom (ft.):	68.45

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:50	14.00	225.00	0.30	5.4	1.54	107.30	114.00	0.04	23.10	Slightly cloudy	No	
13:55	13.99	225.00	0.30	5.43	1.22	98.50	138.00	0.04	23.10	Slightly cloudy	No	
14:00	14.00	225.00	0.30	5.41	1.17	94.70	121.00	0.04	23.00	Slightly cloudy	No	
14:05	14.00	225.00	0.30	5.41	1.16	91.70	89.50	0.04	23.00	Slightly cloudy	No	
14:10	14.00	225.00	0.30	5.41	1.18	89.90	87.30	0.04	23.00	Clear	No	
14:15	14.00	225.00	0.30	5.39	1.00	87.70	89.80	0.04	22.60	Clear	No	
14:20	14.00	225.00	0.30	5.35	0.92	87.00	78.90	0.04	22.60	Clear	No	
14:25	14.00	225.00	0.30	5.35	0.78	85.20	70.20	0.04	22.50	Clear	No	
14:30	14.00	225.00	0.30	5.34	0.67	83.80	64.30	0.04	22.50	Clear	No	
14:35	14.00	225.00	0.30	5.34	0.56	81.70	53.80	0.04	22.80	Clear	No	
14:40	14.00	225.00	0.30	5.36	0.50	79.50	55.90	0.04	22.70	Clear	No	
14:45	14.00	225.00	0.30	5.37	0.48	77.23	45.60	0.04	22.80	Clear	No	
14:50	14.00	225.00	0.30	5.37	0.42	76.80	38.60	0.04	22.60	Clear	No	
14:55	14.00	225.00	0.30	5.36	0.41	77.00	34.80	0.04	22.50	Clear	No	
15:00	14.00	225.00	0.30	5.34	0.39	77.30	29.80	0.04	22.30	Clear	No	
15:05	14.00	225.00	0.30	5.32	0.37	77.80	31.60	0.04	22.30	Clear	No	
15:10	14.00	225.00	0.30	5.32	0.36	77.10	24.60	0.04	22.40	Clear	No	
15:15	14.00	225.00	0.30	5.32	0.34	76.70	19.80	0.04	22.80	Clear	No	
15:20	14.00	225.00	0.30	5.38	0.35	71.90	19.60	0.04	22.90	Clear	No	
15:25	14.00	225.00	0.30	5.38	0.34	71.10	17.90	0.04	22.80	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-24-2019 | Time: 14:25 | Total Volume Purged (gallons): 6

Field Parameters

STABILIZED PARAMETERS	
pH	5.38
Spec. Cond.(mS/cm)	0.04
Turbidity (NTU)	17.90
Temp.(°C)	22.80
DO (mg/L)	0.34
ORP (mV)	71.10

Screen Interval: 57 - 67

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-4D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: Cumberland-4S
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: within screen

Method: Peristaltic Pump Date: 10-25-2019 Time: 13:14

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.112		
Initial Depth to Water (ft.):	7.7	Depth to Well Bottom (ft.):	20.9

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:35	7.85	200.00	0.27	4.04	0.54	187.90	11.50	0.05	26.50	Orange	No	
13:40	7.85	200.00	0.27	4.02	0.45	183.20	9.84	0.05	26.50	Oramge	No	
13:45	7.86	200.00	0.27	4.05	0.42	178.50	10.00	0.05	26.50	Orange	No	
13:50	7.86	200.00	0.27	4.05	0.41	175.80	9.59	0.05	26.50	Orange	No	
13:55	7.87	200.00	0.27	4.08	0.41	173.80	10.20	0.05	26.50	Orange	No	

Sampling Data

Zero HS:
Method:
Date: 10-25-2019 Time: 13:57
Total Volume Purged (gallons): 1.62

Field Parameters

STABILIZED PARAMETERS	
pH	4.08
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	10.20
Temp.(°C)	26.50
DO (mg/L)	0.41
ORP (mV)	173.80

Screen Interval: 10 - 20

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-4S
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Cumberland-5S | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 19

Pump Loc: within screen

Method: Peristaltic Pump | Date: 10-23-2019 | Time: 13:15

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.038		
Initial Depth to Water (ft.):	4.46	Depth to Well Bottom (ft.):	23.45

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:30	4.45	175.00	0.23	5.4	1.95	73.10	5.78	0.14	24.00	Clear	Sulfuric	
13:35	4.49	175.00	0.23	5.4	1.61	62.90	6.30	0.13	23.90	Clear	Sulfuric	
13:41	4.48	175.00	0.23	5.44	1.46	52.60	5.54	0.13	23.80	Clear	Sulfuric	
13:45	4.48	175.00	0.23	5.46	1.41	45.00	5.95	0.13	23.80	Clear	Sulfuric	
13:50	4.47	175.00	0.23	5.48	1.36	38.30	5.83	0.13	23.80	Clear	No	
13:55	4.48	175.00	0.23	5.48	1.36	34.30	5.49	0.13	23.70	Clear	No	
14:00	4.48	175.00	2.30	5.5	1.36	30.80	4.96	0.13	23.70	Clear	No	
14:05	4.48	175.00	2.30	5.4	1.37	27.80	5.02	0.13	23.70	Clear	Sulfuric	
14:10	4.48	175.00	0.23	5.51	1.53	24.90	6.77	0.13	23.70	Clear	Sulfuric	
14:15	4.49	175.00	0.23	5.46	1.48	24.40	6.80	0.13	23.50	Clear	No	
14:20	4.48	175.00	0.23	5.48	1.42	21.50	4.96	0.13	23.70	Clear	No	
14:25	4.48	175.00	0.23	5.47	1.36	21.50	5.16	0.13	23.60	Clear	No	
14:30	4.48	175.00	0.23	5.47	1.33	20.20	4.82	0.12	23.50	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-23-2019 | Time: 14:32 | Total Volume Purged (gallons): 3.45

Field Parameters

STABILIZED PARAMETERS	
pH	5.47
Spec. Cond.(mS/cm)	0.12
Turbidity (NTU)	4.82
Temp.(°C)	23.50
DO (mg/L)	1.33
ORP (mV)	20.20

Screen Interval: 14 - 24

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Cumberland-5S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-1D | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Peristaltic Pump | Date: 10-29-2019 | Time: 11:16

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.944		
Initial Depth to Water (ft.):	19.63	Depth to Well Bottom (ft.):	31.78

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:37	19.70	300.00		3.36	32.98	198.80	85.10	0.16	18.63	Cloudy	None	
11:42	19.71	300.00		3.38	2.22	223.50	88.50	0.17	18.25	Clear	No	
11:47	19.72	300.00		3.41	1.25	244.40	16.60	0.17	18.20	Clear	No	
11:51	19.73	300.00		3.41	0.83	256.70	9.04	0.17	18.22	Clear	No	
11:54	19.73	300.00		3.42	0.64	272.60	7.27	0.17	18.19	Clear	No	
12:00	19.73	300.00		3.42	0.65	279.00	18.20	0.17	18.20	Clear	No	
12:06	19.73	300.00		3.42	0.63	287.30	5.98	0.17	18.27	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-29-2019 | Time: 12:10 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	3.42
Spec. Cond.(mS/cm)	0.17
Turbidity (NTU)	5.98
Temp.(°C)	18.27
DO (mg/L)	0.63
ORP (mV)	287.30

Screen Interval: 24.5 to 29.5

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-1D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PIW-1S	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 10-29-2019 Time: 13:28

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0		
Initial Depth to Water (ft.):	22	Depth to Well Bottom (ft.):	22

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:30												Completely dry.

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval: 7.8 - 17.8

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-1S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	4

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PIW-2D
Well Diameter: 2 Inches
Samplers: LUKE TART
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: within screen
Method: Double valve pump
Date: 11-01-2019
Time: 09:43

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.592		
Initial Depth to Water (ft.):	36.8	Depth to Well Bottom (ft.):	53

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:15	37.80	150.00		6.27	2.84	67.50	104.00	0.08	15.94	Cloudy	None	
10:20	37.81	150.00		6.17	1.52	66.30	101.00	0.08	15.76	Cloudy		
10:25	37.87	150.00		6.04	1.48	66.80	99.00	0.08	15.65	Cloudy		
10:30	38.02	150.00		6	0.58	59.40	68.10	0.08	16.06	Cloudy		
10:35	37.90	150.00		5.99	0.56	56.20	53.60	0.07	15.46	Cloudy		
10:40	37.87	150.00		5.89	0.50	55.60	37.80	0.07	15.76	Cloudy		
10:45	38.05	150.00		5.88	0.51	49.70	24.20	0.07	16.09	Clear		
10:50	37.85	150.00		5.89	0.49	49.10	22.50	0.07	15.74	Clear		
10:55	37.95	150.00	1.50	5.87	0.48	47.80	20.50	0.07	16.10	Clear		
11:00	38.15	150.00		5.84	0.40	45.70	17.50	0.07	16.40	Clear		
11:05	38.00	150.00		5.82	0.40	46.60	17.20	0.07	16.14	Clear		
11:11	38.10	150.00	1.75	5.82	0.43	45.10	16.20	0.07	16.50	Clear	None	

Sampling Data

Zero HS:
Method:
Date: 11-01-2019
Time: 11:15
Total Volume Purged (gallons): 1.75

Field Parameters

STABILIZED PARAMETERS	
pH	5.82
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	16.20
Temp.(°C)	16.50
DO (mg/L)	0.43
ORP (mV)	45.10

Screen Interval: 40 - 50

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-2D
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	47.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	11

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-3D | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Peristaltic Pump | Date: 10-28-2019 | Time: 16:09

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.482		
Initial Depth to Water (ft.):	17.6	Depth to Well Bottom (ft.):	26.86

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
16:07	18.00	250.00		4.2	2.77	53.90	105.00	0.10	18.93	Cloudy	None	
16:12	18.10	250.00		3.83	1.20	47.50	17.40	0.10	18.80	Clear	None	
16:17	18.12	250.00		3.8	1.00	-68.40	13.40	0.10	18.61	Clear	No	
16:22	18.15	250.00		3.82	0.83	-75.50	10.70	0.10	18.60	Clear	None	
16:27	18.16	250.00		3.9	0.82	-85.70	7.97	0.10	18.43	Clear	None	
16:32	18.15	250.00		3.99	0.76	-90.80	8.72	0.10	18.37	Clearr	None	

Sampling Data

Zero HS:

Method: Peristaltic Pump | Date: 10-28-2019 | Time: 16:35 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	3.99
Spec. Cond.(mS/cm)	0.10
Turbidity (NTU)	8.72
Temp.(°C)	18.37
DO (mg/L)	0.76
ORP (mV)	

Screen Interval: 19 - 24

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-3D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	81.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

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RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PIW-4D	Well Diameter:	2 Inches
Samplers:	LUKE TART	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:					
Pump Loc:	within screen				
Method:	Double valve pump	Date:	10-30-2019	Time:	15:13

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.883		
Initial Depth to Water (ft.):	11.25	Depth to Well Bottom (ft.):	41.77

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
18:00	11.29	250.00		5.74	0.75	28.60	74.40	0.06	18.31	Clear	None	
16:05	11.30	250.00		5.84	0.51	20.50	66.50	0.06	28.41	Clear	None	
16:10	11.29	250.00		5.85	0.43	17.10	66.10	0.06	28.25	Clear	None	Last reading for the day. Left tubing in well and will restart tomorrow.

Sampling Data

Zero HS:

Method: Date: Time: Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.85
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	66.10
Temp.(°C)	28.25
DO (mg/L)	0.43
ORP (mV)	17.10

Screen Interval: 32.3 - 37.3

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-4D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	77.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-4D | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data Pump Depth:

Pump Loc: within screen

Method: Double valve pump | Date: 10-31-2019 | Time: 10:51

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.877		
Initial Depth to Water (ft.):	11.29	Depth to Well Bottom (ft.):	41.77

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:50	11.29	280.00		7.65	2.35	87.50	52.50	0.06	18.87	Clear	None	
10:55	11.29	280.00		7.14	1.35	84.00	34.50	0.06	18.86	Clear	None	
11:00	11.25	280.00		6.99	0.84	64.70	46.80	0.06	18.70	Clear	None	
11:05	11.25	280.00		7.18	0.72	44.60	57.50	0.06	18.59	Clear none		
11:10	11.25	280.00		7.35	0.60	28.30	59.60	0.06	18.82	Cloudy	None	
11:15	11.25	280.00		7.39	0.58	26.30	62.00	0.06	18.75	Clear	None	
11:20	11.25	280.00		7.39	0.59	26.00	62.80	0.06	18.69	Clear	None	
11:25	11.25	280.00		7.38	0.61	26.30	63.70	0.05	18.62	Clear	None	
11:35	11.25	280.00		7.09	1.69	46.20	65.40	0.06	17.72	Clear	None	
11:40	11.25	280.00		7.46	0.22	22.00	83.90	55.60	19.53	Clear	None	
11:45	11.25	280.00		7.51	0.27	20.60	80.30	0.06	19.77	Cloudy	None	
11:50	11.25	280.00		7.51	0.29	19.80	78.20	0.06	20.15	Cloudy	None	
11:55	11.25	280.00		7.52	0.25	18.30	81.80	0.06	20.67	Cloudy	None	
11:59	11.25	280.00		7.5	0.20	19.00	82.60	0.06	0.72	Cloudy	None	
12:05	11.25	280.00		6.97	0.89	52.90	86.80	0.05	17.62	Cloudy	None	
12:10	11.25	280.00		7.12	1.11	45.60	90.70	0.05	17.64	Cloudy	None	
12:15	11.25	280.00		7.26	2.05	40.90	93.40	0.05	17.59	Cloudy	None	
12:20	11.26	280.00		7.29	2.14	37.10	93.60	0.05	17.70	Cloudy	None	
12:25	11.26	280.00		7.37	0.47	34.40	96.20	0.05	17.59	Cloudy	None	
12:30	11.27	280.00		7.45	3.38	33.30	96.70	0.05	17.64	Cloudy	None	
12:35	11.29	280.00		7.38	2.47	36.60	96.10	0.05	17.58	Cloudy	None	
12:40	11.29	280.00		7.36	3.09	37.70	97.20	0.05	17.58	Cloudy	None	
12:45	11.29	280.00		7.4	1.32	36.60	87.60	0.05	17.57	Cloudy	None	
12:50	11.29	280.00		7.45	2.80	36.70	87.20	0.05	17.75	Cloudy	None	
12:55	11.29	280.00		7.43	1.37	36.60	78.10	0.05	17.70	Cloudy	None	
13:00	11.29	280.00		7.38	3.29	41.20	71.20	0.05	17.59	Cloudy	Yes, methane	
13:05	11.30	280.00		7.39	1.50	37.70	69.80	0.05	17.69	Cloudy	Yes, methane	
13:10	11.29	280.00		7.47	2.26	36.00	71.90	0.05	19.09	Cloudy	Yes, methane	
13:15	11.29	280.00		7.5	1.57	34.30	59.20	0.05	19.63	Cloudy	Yes, methane	
13:20	11.29	280.00		7.5	0.60	32.10	60.50	0.06	19.68	Cloudy	Yes, methane	

Sampling Data Zero HS:

Method: | Date: 10-31-2019 | Time: 13:25 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	7.50
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	60.50
Temp.(°C)	19.68

Screen Interval: 32.3 - 37.3

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

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DO (mg/L)	0.60
ORP (mV)	32.10

Sample ID:	GW4Q19-PIW-4D
DuplicateID:	GW4Q19-PIW-4D-D

WEATHER CONDITIONS	
Temperature (F):	79.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	12

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-7D | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc:

Method: | Date: 10-30-2019 | Time: 10:23

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.157		
Initial Depth to Water (ft.):	5.87	Depth to Well Bottom (ft.):	38.1

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:50	5.90			4.29	1.26	87.70	5.29	0.09	18.88	Clear	None	
10:55	5.90			4.17	0.83	99.40	2.68	0.09	19.08	Clear	None	
11:00	5.90			4.12	0.55	105.30	2.03	0.09	18.54	Clear	None	
10:05	5.90			4.11	0.45	105.90	1.71	0.09	18.64	Clear	None	
11:10	5.90			4.12	0.45	106.70	1.25	0.09	18.49	Clear	None	
11:15	5.90			4.11	0.39	106.80	0.96	0.09	18.38	Clear	None	
11:20	5.90			4.12	0.38	106.60	0.92	0.09	18.45	Clear	None	
11:25	5.90			4.1	0.34	106.40	0.72	0.09	18.50	Clear	None	
11:30	5.90			4.13	0.29	104.60	0.86	0.09	18.60	Clear	None	
11:35	5.90			4.11	0.30	105.10	0.89	0.09	18.34	Clear	None	
11:40	5.90			4.3	0.29	102.10	0.71	0.09	18.50	Clear	None	

Sampling Data

Zero HS:

Method: | Date: 10-30-2019 | Time: 11:15 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.30
Spec. Cond.(mS/cm)	0.09
Turbidity (NTU)	0.71
Temp.(°C)	18.50
DO (mg/L)	0.29
ORP (mV)	102.10

Screen Interval: 29 - 34

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-7D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	10

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-8D | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Double valve pump | Date: 10-30-2019 | Time: 12:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.552		
Initial Depth to Water (ft.):	7.3	Depth to Well Bottom (ft.):	42

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
12:45	7.39	250.00		3.85	1.74	155.50	25.50	0.20	18.44	Clear	None	
12:50	7.39	250.00		3.93	1.42	154.50	12.80	0.20	18.40	Clear	None	
12:55	7.37	250.00		3.97	0.76	157.40	7.71	0.20	18.31	Clear	None	
12:59	7.37	250.00		3.98	0.71	162.60	4.45	0.20	18.24	Clear	None	
13:06	7.39	250.00		3.97	1.19	170.20	2.23	0.20	18.38	Clear	None	
13:10	7.39	250.00		3.98	0.70	173.80	1.94	0.20	18.37	Clear	None	
13:15	7.39	250.00		3.98	0.61	179.10	1.46	0.20	18.33	Clear	None	
13:20	7.39	250.00		3.98	0.60	182.40	1.81	0.20	18.29	Clear	None	
13:25	7.39	250.00		3.98	0.65	185.40	1.02	0.20	18.39	Clear	None	

Sampling Data

Zero HS:

Method: | Date: 10-30-2019 | Time: 13:30 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	3.98
Spec. Cond.(mS/cm)	0.20
Turbidity (NTU)	1.02
Temp.(°C)	18.39
DO (mg/L)	0.65
ORP (mV)	185.40

Screen Interval: 35.5 - 45.5

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-8D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	5

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-9D | Well Diameter: 2 Inches

Samplers: CHARLES PACE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Double valve pump | Date: 10-23-2019 | Time: 09:55

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	-5.974		
Initial Depth to Water (ft.):	37.34	Depth to Well Bottom (ft.):	

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:30	37.51	310.00		10.02	3.54	-2.00	0.00	0.33	17.32	Clear	No	
10:35	37.51	310.00		7.65	0.00	7.00	0.00	0.21	17.33	Clear	No	
10:40	37.42	310.00		5.85	0.00	83.00	0.00	0.18	17.27	Clear	No	
10:45	37.50	310.00		5.33	0.00	112.00	0.00	0.16	17.28	Clear	No	
10:50	37.50	310.00		5.11	0.00	128.00	0.00	0.16	17.30	Clear	No	
10:55	37.50	310.00		5.03	0.00	136.00	0.00	0.15	17.33	Clear	No	
11:00	37.50	310.00		4.96	0.00	147.00	0.00	0.15	17.32	Clear	No	
11:05	37.50	310.00		4.8	0.00	160.00	0.00	0.15	17.35	Clear	No	
11:10	37.50	310.00		4.75	0.00	167.00	0.00	0.15	17.39	Clear	No	
11:15	37.50	310.00		4.71	0.00	171.00	0.00	0.14	17.40	Clear	No	

Sampling Data

Zero HS:

Method: | Date: 10-23-2019 | Time: 11:20 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.71
Spec. Cond.(mS/cm)	0.14
Turbidity (NTU)	
Temp.(°C)	17.40
DO (mg/L)	
ORP (mV)	171.00

Screen Interval: 40 - 45

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-9D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-9S | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER Charles Pace | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: within screen

Method: Low Flow: Geo Pump | Date: 10-23-2019 | Time: 09:56

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.429		
Initial Depth to Water (ft.):	30.43	Depth to Well Bottom (ft.):	33.11

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:10	30.62	200.00		4.52	1.70	173.50	33.10	0.11	18.04	Clear	None	
11:15	30.65	200.00		4.2	1.10	114.00	25.70	0.11	17.87	Clear	None	
11:20	30.66	200.00		3.98	0.87	86.80	13.10	0.11	17.78	Clear	None	
11:25	30.66	200.00		3.96	0.79	65.60	6.70	0.11	17.68	Clear	None	
11:30	30.66	200.00		3.97	0.79	49.80		0.11	17.67			No turbidity taken
11:35	30.72	200.00		3.99	0.54	41.60		0.11	17.77			No turbidity taken
11:40	30.71	200.00		3.99	0.48	32.60	3.73	0.11	17.78	Clear	None	
11:45	30.71	200.00		3.98	0.47	29.00	2.42	0.11	17.79	Clear	None	
11:50	30.71	200.00		3.98	0.46	26.30	2.08	0.11	17.77	Clear	None	
11:55	30.71	200.00		3.98	0.43	22.60	1.61	0.11	17.82	Clear	None	
12:00	30.70	200.00		4	0.41	17.10	2.00	0.11	17.87	Clear	None	
12:05	30.70	200.00		3.98	0.35	16.90	1.42	0.11	17.90	Clear	None	
12:10	30.70	200.00		3.99	0.39	15.40	1.44	0.11	17.94	Clear	None	
12:15	30.69	200.00		3.99	0.35	14.30	1.23	0.11	17.97	Clear	None	
12:20	30.69	200.00		4.02	0.42	13.10	1.27	0.11	18.01	Clear	None	
12:25	30.60	200.00		4.04	0.33	11.01	1.20	0.11	17.96	Clear	None	
12:30	30.69	200.00		4.04	0.32	11.50	1.39	0.11	17.98	Clear	None	
12:35	30.69	200.00		4.04	0.33	10.90	1.25	0.11	17.90	Clear	None	

Sampling Data

Zero HS:

Method: Peristaltic Pump | Date: 10-23-2019 | Time: 12:40 | Total Volume Purged (gallons): 4.49

Field Parameters

STABILIZED PARAMETERS	
pH	4.04
Spec. Cond.(mS/cm)	0.11
Turbidity (NTU)	1.25
Temp.(°C)	17.90
DO (mg/L)	0.33
ORP (mV)	10.90

Screen Interval: 24.8 - 29.8

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-9S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-10DR | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 55.5

Pump Loc: within screen

Method: Double valve pump | Date: 10-30-2019 | Time: 15:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	7.563		
Initial Depth to Water (ft.):	14.68	Depth to Well Bottom (ft.):	61.95

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
15:15	14.68	200.00	0.27	5.67	0.51	-2.20	56.80	0.18	19.45	Clear	No odor	
15:20	14.70	200.00	0.27	5.54	0.36	7.90	36.80	0.17	19.48	Clear	No odor	
15:25	14.70	200.00	0.27	5.49	0.41	15.30	18.90	0.17	19.22	Clear	No odor	
15:30	14.70	200.00	0.27	5.49	0.39	16.30	14.90	0.17	19.30	Clear	No odor	
15:35	14.69	200.00	0.27	5.48	0.28	15.60	11.70	0.17	19.23	Clear	No odor	
15:40	14.68	200.00	0.27	5.48	0.26	16.40	8.77	0.17	19.45	Clear	No odor	
15:45	14.68	200.00	0.27	5.47	0.25	15.80	8.01	0.17	19.42	Clear	No odor	
15:50	14.68	200.00	0.27	5.46	0.24	16.60	6.91	0.17	19.29	Clear	No odor	

Sampling Data

Zero HS:

Method: | Date: 10-30-2019 | Time: 15:50 | Total Volume Purged (gallons): 2.13

Field Parameters

STABILIZED PARAMETERS	
pH	5.46
Spec. Cond.(mS/cm)	0.17
Turbidity (NTU)	6.91
Temp.(°C)	19.29
DO (mg/L)	0.24
ORP (mV)	16.60

Screen Interval: 53 - 58

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-10DR

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-10S | Well Diameter: 2 Inches

Samplers: LUKE TART | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Peristaltic Pump | Date: 10-29-2019 | Time: 14:13

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.206		
Initial Depth to Water (ft.):	18.9	Depth to Well Bottom (ft.):	20.19

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:40	19.30	250.00		3.96	14.06	186.90	61.40	0.05	19.20	Cloudy	None	
14:45	19.25	250.00		3.97	7.06	189.70	15.30	0.05	19.21	Clear	None	
14:52	19.25	250.00		3.98	4.61	195.20	5.42	0.05	19.22	Clear	None	
14:57	19.25	250.00		3.99	3.76	198.70	2.60	0.05	19.19	Clear	None	
15:02	19.25	250.00		3.98	3.75	202.10	1.58	0.05	19.23	Clear	None	
15:07	19.25	250.00		3.99	3.80	204.80	1.12	0.05	19.20	Clear	None	

Sampling Data

Zero HS:

Method: | Date: 10-29-2019 | Time: 15:10 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	3.99
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	1.12
Temp.(°C)	19.20
DO (mg/L)	3.80
ORP (mV)	204.80

Screen Interval: 7 - 17

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PIW-10S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	68.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	5

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PW-01
Well Diameter: 2 Inches
Samplers: BRANDON WEIDNER Ally Vo
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data
Pump Depth:
Pump Loc: within screen
Method: Low Flow: Geo Pump Date: 10-18-2019 Time: 12:49

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.166		
Initial Depth to Water (ft.):	16.1	Depth to Well Bottom (ft.):	23.39

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:05	16.08	200.00		5.27	2.39	213.00	8.71	0.08	21.97	Clear	None	
13:10	16.08	200.00		5.04	2.87	227.60	5.22	0.07	22.17	Clear	None	
13:15	16.08	200.00		4.88	3.78	236.90	3.26	0.06	22.20	Clear	None	
13:20	16.08	200.00		4.75	4.34	242.80	1.91	0.06	21.68	Clear	None	
13:25	16.08	200.00		4.77	4.97	244.00	1.03	0.06	21.99	Clear	None	
13:30	16.08	200.00		4.77	4.71	244.10	0.83	0.06	21.88	Clear	None	
13:35	16.08	200.00		4.73	4.98	248.70	1.13	0.06	21.79	Clear	None	

Sampling Data
Zero HS:
Method: Peristaltic Pump Date: 10-18-2019 Time: 13:40 Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.73
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	1.13
Temp.(°C)	21.79
DO (mg/L)	4.98
ORP (mV)	248.70

Screen Interval: 11 - 21

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-01
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	65.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PW-02
Well Diameter: 2 Inches

Samplers: BEN KRAUSE Luke Tart
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: within screen

Method: Double valve pump
Date: 11-04-2019
Time: 14:40

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.302		
Initial Depth to Water (ft.):	56.6	Depth to Well Bottom (ft.):	64.74

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:45	56.60	200.00		5.48	1.19	186.40	204.00	0.13	19.06	Cloudy	None	
15:50	56.60	200.00		5.35	0.77	188.50	231.00	0.13	18.94	Cloudy	None	
14:55	56.55	200.00	1.00	5.26	0.62	189.20	221.00	0.13	18.91	Cloudy	None	
15:00	56.58	200.00		5.21	0.83	190.70	226.00	0.13	18.94	Cloudy	Nome	
15:05	56.65	200.00		5.17	0.83	193.90	230.10	0.12	18.91	Cloudy	No odor	
15:15	56.60	200.00		5.14	4.77	197.90	250.00	0.12	18.71	Cloudy	None	
15:20	56.70	200.00		5.04	2.41	206.50	213.00	0.12	18.71	Cloudy	None	
15:25	56.63	200.00		4.81	6.03	217.80	168.00	0.12	18.67	Cloudy	No odor	
15:30	56.61	200.00		4.91	3.22	217.90	159.00	0.12	18.63	Cloudy	No odor	
15:35	56.62	200.00		4.92	3.11	219.10	155.00	0.12	18.56	Cloudy	No odor	
15:40	56.65	200.00		4.92	2.83	221.20	155.00	0.12	18.66	Cloudy	No odor	
15:45	56.59	200.00		4.88	2.89	224.50	141.00	0.12	18.62	Cloudy	None	
15:50	56.61	200.00		4.83	6.68	232.10	146.00	0.12	18.57	Cloudy	None	
15:55	56.57	200.00		4.8	7.80	233.50	137.00	0.11	18.57	Cloudy	None	
16:00	56.66	200.00		4.72	5.03	239.10	133.00	0.11	18.57	Cloudy	Nome	
16:05	56.60	200.00		4.73	4.04	242.50	135.00	0.11	18.56	Cloudy	No odor	
16:10	56.67	200.00		4.71	6.65	244.80	125.00	0.11	18.54	Cloudy	No odor	

Sampling Data

Zero HS:
Method:
Date: 11-04-2019
Time: 16:10
Total Volume Purged (gallons): 7.4

Field Parameters

STABILIZED PARAMETERS	
pH	4.71
Spec. Cond.(mS/cm)	0.11
Turbidity (NTU)	125.00
Temp.(°C)	18.54
DO (mg/L)	6.65
ORP (mV)	244.80

Screen Interval: 50 - 60

SAMPLE SET				
Parameter	**Bottle**	**Pres.**	**Method**	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-02
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	5

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-03 | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 46

Pump Loc: within screen

Method: Double valve pump | Date: 11-05-2019 | Time: 15:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.187		
Initial Depth to Water (ft.):	42.26	Depth to Well Bottom (ft.):	49.68

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
15:20	43.05	100.00	0.03	6.27	5.45	-135.40	1000.00	0.35	21.28	murky	None	
15:25	43.24	100.00	0.03	6.18	1.94	-143.90	1000.00	0.33	21.03	Cloudy	No odor	
15:30	43.59	100.00	0.03	6.12	1.69	-142.00	1000.00	0.33	20.72	Cloudy	No odor	
15:35	43.85	100.00	0.03	5.98	1.26	-142.40	1000.00	0.33	20.43	Cloudy	No odor	
15:40	44.00	100.00	0.03	5.8	2.62	-59.80	1000.00	0.31	19.90	Cloudy	No odor	
15:45	44.25	100.00	0.03	5.69	1.11	-89.90	1000.00	0.30	19.78	Cloudy	No odor	
15:50	44.35	100.00	0.03	5.6	0.90	-143.50	1000.00	0.26	19.69	Cloudy	No odor	
15:55	44.60	100.00	0.03	5.64	0.73	-137.90	1000.00	0.26	19.74	Cloudy	None	
16:00	44.55	100.00	0.03	5.79	0.67	-153.20	1000.00	0.27	19.77	Cloudy	No odor	
16:05	44.55	100.00	0.03	5.92	0.67	-156.40	1000.00	0.28	19.76	Cloudy	No odor	
16:10	44.60	100.00	0.27	5.91	0.64	-161.60	1000.00	0.25	20.00	Cloudy	No odor	
16:15	45.48	100.00	0.03	5.88	0.61	-160.00	1000.00	0.23	20.11	Cloudy	No odor	
16:20	46.08	100.00	0.27	5.44	0.75	-142.90	1000.00	0.21	18.68	Murky	None	

Sampling Data

Zero HS:

Method: | Date: 11-05-2019 | Time: 15:39 | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.44
Spec. Cond.(mS/cm)	0.21
Turbidity (NTU)	1000.00
Temp.(°C)	18.68
DO (mg/L)	0.75
ORP (mV)	

Screen Interval: 35 - 45

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-03

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PW-05
Well Diameter: 2 Inches

Samplers: BEN KRAUSE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 74
Pump Loc: within screen

Method: Double valve pump
Date: 10-30-2019
Time: 09:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	8.043		
Initial Depth to Water (ft.):	29.33	Depth to Well Bottom (ft.):	79.6

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
09:35	29.43	225.00	0.30	4.07	5.58	364.50	36.60	0.07	19.50	Clear	No odor	
09:45	29.45	225.00	0.30	3.98	4.90	414.70	8.61	0.08	19.35	Clear	No odor	
09:55	29.45	225.00	0.30	3.83	4.92	404.10	4.23	0.08	19.45	Clear	No odor	
10:00	29.45	225.00	0.30	3.93	4.89	402.80	3.47	0.08	19.36	Clear	No odor	

Sampling Data

Zero HS:
Method:
Date: 10-30-2019
Time: 10:00
Total Volume Purged (gallons): 1.8

Field Parameters

STABILIZED PARAMETERS	
pH	3.93
Spec. Cond.(mS/cm)	0.08
Turbidity (NTU)	3.47
Temp.(°C)	19.36
DO (mg/L)	4.89
ORP (mV)	402.80

Screen Interval: 65 - 75

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-05
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Cloudy
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-09 | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 51

Pump Loc: within screen

Method: Double valve pump | Date: 10-30-2019 | Time: 11:17

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.277		
Initial Depth to Water (ft.):	25.33	Depth to Well Bottom (ft.):	58.31

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:23	26.50	180.00	0.24	11.38	0.41	-113.10	45.40	0.51	18.28	Clear	No odor	
11:28	26.51	180.00	0.24	11.33	0.52	-119.90	28.50	0.61	18.40	Clear	No odor	
11:32	26.50	180.00	0.24	11.57	0.23	-144.70	17.80	0.80	18.56	Clear	No odor	
11:37	26.50	180.00	0.24	11.62	0.21	-187.90	21.50	0.68	18.51	Clear	No odor	
11:42	26.50	180.00	0.24	11.36	0.18	-168.90	62.10	0.61	18.43	Clear	No odor	
11:47	26.51	180.00	0.24	10.74	0.16	-123.70	75.20	0.28	18.49	Clear	No odor	
11:52	26.49	180.00	0.24	10.61	0.16	-65.60	79.30	0.25	18.51	Clear	No odor	
11:57	26.49	180.00	0.24	10.35	0.18	-72.90	75.50	0.22	18.47	Clear	No odor	
12:02	26.49	180.00	0.24	10.22	0.12	-69.30	77.20	0.20	18.45	Clear	No odor	
12:07	26.48	180.00	0.24	10.14	0.13	-83.70	80.60	0.19	18.41	Clear	No odor	
12:12	26.48	180.00	0.24	10.08	0.12	-98.10	80.70	0.19	18.54	Clear	No odor	
12:17	26.49	180.00	0.24	9.96	0.12	-100.10	83.10	0.18	18.48	Clear	No odor	
12:22	26.50	180.00	0.24	9.98	0.12	-101.10	84.90	0.17	18.39	Clear	No odor	
12:27	26.49	180.00	0.24	9.88	0.12	-97.90	85.00	0.17	18.40	Clear	No odor	
12:32	26.50	180.00	0.24	9.89	0.12	-108.60	84.40	0.17	18.34	Clear	No odor	
12:37	26.50	180.00	0.24	9.86	0.12	-108.50	85.50	0.17	18.38	Clear	No odor	
12:42	26.49	180.00	0.24	9.81	0.10	-116.90	79.80	0.17	18.34	Clear	No odor	
12:47	26.50	180.00	0.24	9.78	0.09	-120.10	77.40	0.16	18.30	Clear	No odor	
12:52	26.50	180.00	0.24	9.73	0.09	-120.50	76.30	0.15	18.30	Clear	No odor	
12:57	26.49	180.00	0.24	9.67	0.09	-124.60	72.80	0.15	18.26	Clear	No odor	
13:02	26.49	180.00	0.24	9.62	0.07	-129.10	75.90	0.14	18.35	Clear	No odor	
13:07	26.49	180.00	0.24	9.6	0.05	-130.30	72.40	0.14	18.41	Clear	No odor	
13:12	26.49	180.00	0.24	9.57	0.05	-132.90	71.10	0.14	18.44	Clear	No odor	
13:17	26.49	180.00	0.24	9.54	0.05	-124.10	69.80	0.13	18.39	Clear	No odor	
13:23	26.49	180.00	0.24	9.51	0.05	-127.50	68.80	0.14	18.39	Clear	No odor	
13:28	26.48	180.00	0.24	9.49	0.05	-124.50	66.80	0.13	18.42	Clear	No odor	
13:33	26.49	180.00	0.24	9.48	0.05	-126.50	67.50	0.13	18.62	Clear	No odor	Turbidity stabilized around 68 NTU for half hour period.

Sampling Data

Zero HS:

Method: | Date: 10-30-2019 | Time: 01:35 | Total Volume Purged (gallons): 6.53

Field Parameters

STABILIZED PARAMETERS	
pH	9.48
Spec. Cond.(mS/cm)	0.13
Turbidity (NTU)	67.50
Temp.(°C)	18.62
DO (mg/L)	0.05
ORP (mV)	

Screen Interval: 44 - 54

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

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Sample ID:	GW4Q19-PW-09
DuplicateID:	

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Cloudy
Precipitation:	None
Wind (mph)	

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-10R | Well Diameter: 2 Inches

Samplers: BEN KRAUSE Luke Tart | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 62

Pump Loc: within screen

Method: Double valve pump | Date: 11-04-2019 | Time: 12:30

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	6.634		
Initial Depth to Water (ft.):	27.64	Depth to Well Bottom (ft.):	69.1

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	^{o}C			
12:40	27.80	200.00	0.27	5.43	0.51	84.90	28.50	0.07	18.13	Clear	None	
12:45	27.82	200.00	0.27	5.4	0.19	75.80	7.30	0.07	17.88	Clear	None	
12:50	27.90	200.00	0.27	5.41	0.17	65.70	6.98	0.06	17.88	Clear	None	
12:55	27.80	200.00		5.42	0.22	61.40	7.61	0.06	17.91	Clear	None	
13:00	27.80	200.00	0.27	5.4	0.39	58.20	4.68	0.06	17.88	Clear	None	
13:05	27.82	200.00		5.39	0.35	56.60	3.47	0.06	17.87	Clear	None	
13:10	27.90	200.00	2.50	5.4	0.29	52.50	3.91	0.06	17.89	Clear	None	
13:15	27.80	200.00		5.4	0.18	50.70	3.46	0.06	18.00	Clear	None	
13:20	27.90	200.00	3.00	5.4	0.18	47.60	4.39	0.06	17.92	Clear	Nome	
13:26	27.85	200.00		5.39	0.13	45.90	5.15	0.06	17.99	Clear	None	
13:30	27.86	200.00	0.27	5.39	0.12	43.60	3.66	0.06	17.99	Clear	None	
13:35	27.86	200.00	4.00	5.39	0.12	42.80	4.99	0.06	18.05	Clear	None	

Sampling Data

Zero HS:

Method: | Date: 11-04-2019 | Time: 13:40 | Total Volume Purged (gallons): 4.3

Field Parameters

STABILIZED PARAMETERS	
pH	5.39
Spec. Cond.(mS/cm)	0.06
Turbidity (NTU)	4.99
Temp.(^{o}C)	18.05
DO (mg/L)	0.12
ORP (mV)	42.80

Screen Interval: 57 - 67

SAMPLE SET				
Parameter	**Bottle**	**Pres.**	**Method**	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-10R

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PW-11
Well Diameter: 2 Inches
Samplers: STEVEN BOOR Brandon - Geosyntec
Event: Other
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: within screen
Method: Double valve pump
Date: 10-22-2019
Time: 15:07

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.422		
Initial Depth to Water (ft.):	33.68	Depth to Well Bottom (ft.):	67.57

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
15:50	33.97	450.00		3.85	24.27	181.00	0.00	0.50	19.23	Clear		
15:55	33.98	450.00		3.83	3.02	168.00	0.00	0.51	18.93	Clear		
16:00	33.98	450.00		3.96	2.40	154.00	0.00	0.50	19.06			
16:05	33.98	450.00		4.09	0.00	144.00	0.00	0.50	19.03			
16:10	33.98	450.00		4.22	0.00	127.00	0.00	0.50	18.91			
16:15	33.98	450.00		4.35	0.00	118.00	0.30	0.49	18.75			
16:18	33.97	450.00		4.43	0.00	115.00	0.00	0.50	18.78			

Sampling Data

Zero HS:
Method: Other
Date: 10-22-2019
Time: 16:25
Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.43
Spec. Cond.(mS/cm)	0.50
Turbidity (NTU)	
Temp.(°C)	18.78
DO (mg/L)	
ORP (mV)	115.00

Screen Interval:
53 - 63

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-11
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	80.00
Sky:	Partly Sunny
Precipitation:	Rain
Wind (mph)	

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-12 | Well Diameter: 2 Inches

Samplers: BEN KRAUSE | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 116

Pump Loc: within screen

Method: Double valve pump | Date: 11-05-2019 | Time: 11:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	10.592		
Initial Depth to Water (ft.):	58.14	Depth to Well Bottom (ft.):	124.34

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:10	58.21	200.00	0.27	5.93	-0.73	-116.70	495.00	0.05	19.18	Cloudy	No odor	
11:15	58.20	200.00	0.27	5.77	-0.60	-116.50	279.00	0.05	19.26	Cloudy	No odor	
11:20	58.21	200.00	0.27	5.68	-0.48	-119.00	207.00	0.05	19.32	Cloudy	No odor	
11:25	58.20	200.00	0.27	5.66	-0.44	-118.70	193.00	0.05	19.40	Cloudy	No odor	
11:30	58.20	200.00	0.27	5.67	-0.34	-125.50	153.00	0.05	19.50	Cloudy	No odor	
11:35	58.20	200.00	0.27	5.66	-0.28	-128.00	120.00	0.05	19.48	Cloudy	No odor	
11:40	58.20	200.00	0.27	5.66	-0.26	-132.10	108.00	0.05	19.65	Cloudy	No odor	
11:45	58.20	200.00	0.27	5.66	-0.22	-133.80	97.40	0.05	19.63	Cloudy	No odor	
11:50	58.20	200.00	0.27	5.67	-0.20	-136.50	83.90	0.05	19.72	Cloudy	No odor	
11:55	58.20	200.00	0.27	5.61	-0.24	-143.50	75.00	0.05	19.64	Cloudy	None	
12:00	58.20	200.00	0.27	5.57	2.11	-148.20	68.00	0.05	19.52	Cloudy	None	
12:05	58.20	200.00	0.27	5.54	1.34	-147.90	61.60	0.05	19.33	Cloudy	None	
12:10	58.20	200.00	0.27	5.51	0.96	-150.10	59.20	0.05	19.16	Cloudy	No odor	
12:15	58.20	200.00	0.27	5.48	0.78	-148.50	55.30	0.05	19.05	Clear	No odor	
12:20	58.20	200.00	0.27	5.42	0.73	-150.50	47.30	0.05	19.09	Clear	No odor	
12:25	19.15	200.00	0.27	5.41	0.67	-146.80	38.40	0.05	19.17	Cloudy	None	
12:30	58.20	200.00	0.27	5.48	-0.52	-153.00	28.10	0.05	19.19	Clear	None	
12:35	58.20	200.00	0.27	5.54	-0.40	-142.80	25.30	0.05	19.41	Clear	No odor	
12:40	58.20	200.00	0.27	5.6	-0.32	-149.00	21.80	0.05	19.31	Clear	None	
12:45	58.20	200.00	0.27	5.73	-0.14	-93.60	23.50	0.05	19.96	Cloudy	None	
12:50	58.20	200.00	0.27	5.69	-0.14	-115.80	26.40	0.05	19.53	Clear	None	
12:55	58.20	200.00	0.27	5.66	-0.14	-128.60	26.90	0.05	19.32	Clear	None	
13:00	58.20	200.00	0.27	5.65	-0.14	-141.10	24.40	0.05	19.30	Cloudy	None	
13:05	58.20	200.00	0.27	5.65	-0.14	-146.20	25.70	0.05	19.36	Clear	None	
13:10	58.20	200.00	0.27	5.63	-0.14	-150.60	20.80	0.05	19.47	Clear	None	
13:15	58.20	200.00	0.27	5.62	-0.14	-152.20	18.60	0.05	19.43	Clear	No odor	
13:20	58.20	200.00	0.27	5.61	-0.14	-152.50	17.80	0.05	19.25	Clear	None	

Sampling Data

Zero HS:

Method: | Date: 11-05-2019 | Time: 13:20 | Total Volume Purged (gallons): 6.93

Field Parameters

STABILIZED PARAMETERS	
pH	5.61
Spec. Cond.(mS/cm)	0.05
Turbidity (NTU)	17.80
Temp.(°C)	19.25
DO (mg/L)	
ORP (mV)	

Screen Interval: 109 - 119

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

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Sample ID:	GW4Q19-PW-12
DuplicateID:	

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville
Well ID: PW-14
Well Diameter: 2 Inches

Samplers: CHARLES PACE
Event: Quarterly
Project Manager: Tracy Ovbey

Purging Data

Pump Depth:
Pump Loc: within screen
Method: Double valve pump
Date: 10-23-2019
Time: 12:58

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume = -9.784

Initial Depth to Water (ft.): 61.15
Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:30	61.15	195.00		5.51	0.00	117.00	295.00	0.20	22.78	Grey	No	
13:35	61.18	195.00		5.26	0.00	125.00	84.50	0.19	23.39	Murky	No	
13:40	61.15	195.00		4.72	0.00	164.00	1.00	0.18	22.77	Clear	No	
13:45	61.15	195.00		4.71	0.00	166.00	0.00	0.18	22.20	Clear	No	
13:50	61.15	195.00		4.67	0.00	167.00	0.00	0.18	23.01	Clear	No	

Sampling Data

Zero HS:
Method:
Date: 10-23-2019
Time: 13:55
Total Volume Purged (gallons): 1.03

Field Parameters

STABILIZED PARAMETERS	
pH	4.67
Spec. Cond.(mS/cm)	0.18
Turbidity (NTU)	
Temp.(°C)	23.01
DO (mg/L)	
ORP (mV)	167.00

Screen Interval: 136 - 146

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-14
DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	71.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: Robeson-1D | Well Diameter: 2 Inches

Samplers: BEN KRAUSE Ali Vo | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 47.7

Pump Loc: within screen

Method: Double valve pump | Date: 10-31-2019 | Time: 10:25

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	6.496		
Initial Depth to Water (ft.):	14.28	Depth to Well Bottom (ft.):	54.88

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
10:30	14.30	200.00	0.27	6.13	0.62	-29.90	25.00	0.08	22.97	Clear	No odor	
10:35	14.30	200.00	0.27	6.1	0.36	-48.30	68.10	0.08	22.80	Clear	No odor	
10:40	14.30	200.00	0.27	6.25	0.26	-64.20	65.10	0.08	22.68	Clear	No odor	
10:45	14.31	200.00	0.27	6.38	0.24	-78.00	48.00	0.08	22.74	Clear	No odor	
10:50	14.30	200.00	0.27	6.42	0.28	-85.60	43.60	0.08	22.62	Clear	No odor	
10:55	14.31	200.00	0.27	6.42	0.25	-89.50	36.10	0.08	22.50	Clear	No odor	
11:00	14.31	200.00	0.27	6.42	0.19	-87.60	31.10	0.08	22.45	Clear	No odor	
11:05	14.31	200.00	0.27	6.42	0.19	-93.90	29.10	0.08	22.45	Clear	No odor	
11:10	14.32	200.00	0.27	6.43	0.19	-97.50	25.40	0.08	22.42	Clear	No odor	
11:15	14.32	200.00	0.27	6.41	0.19	-96.70	25.60	0.08	22.39	Clear	No odor	
11:20	14.31	200.00	0.27	6.4	0.13	-101.10	22.80	0.08	22.39	Clear	No odor	
11:25	14.31	200.00	0.27	6.42	0.13	-100.50	19.50	0.08	22.43	Clear	No odor	
11:30	14.31	200.00	0.27	6.41	0.13	-101.50	19.60	0.08	22.42	Clear	No odor	
11:35	14.31	200.00	0.27	6.39	0.13	-102.10	17.20	0.08	22.43	Clear	No odor	

Sampling Data

Zero HS:

Method: | Date: 10-31-2019 | Time: 11:35 | Total Volume Purged (gallons): 3.73

Field Parameters

STABILIZED PARAMETERS	
pH	6.39
Spec. Cond.(mS/cm)	0.08
Turbidity (NTU)	17.20
Temp.(°C)	22.43
DO (mg/L)	0.13
ORP (mV)	

Screen Interval: 42.75 - 52.75

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Robeson-1D

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	Robeson-1S	Well Diameter:	2 Inches
Samplers:	BEN KRAUSE Ali Vo	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 22

Pump Loc: within screen

Method: Peristaltic Pump Date: 10-31-2019 Time: 13:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.654		
Initial Depth to Water (ft.):	12.06	Depth to Well Bottom (ft.):	28.65

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:05	12.19	120.00	0.16	5.5	3.13	165.40	7.72	0.08	25.80	Clear	No odor	
13:10	12.20	120.00	0.16	5.46	2.98	168.20	6.03	0.08	25.62	Clear	No odor	
13:15	12.20	120.00	0.16	5.51	2.82	161.30	5.05	0.08	25.48	Clear	No odor	

Sampling Data

Zero HS:

Method: Date: 10-31-2019 Time: 13:15 Total Volume Purged (gallons): 0.48

Field Parameters

STABILIZED PARAMETERS	
pH	5.51
Spec. Cond.(mS/cm)	0.08
Turbidity (NTU)	5.05
Temp.(°C)	25.48
DO (mg/L)	2.82
ORP (mV)	161.30

Screen Interval: 17 - 27

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-Robeson-1S

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-15R	Well Diameter:	2 Inches
Samplers:	BEN KRAUSE Danielle Delgado	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 120

Pump Loc: within screen

Method: PFC Free Bladder Pump Date: 11-06-2019 Time: 14:00

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	10.325		
Initial Depth to Water (ft.):	59.47	Depth to Well Bottom (ft.):	124

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
14:05	59.58	125.00		6.04	7.75	89.10	97.50	0.18	19.50	Clear	None	
14:10	59.64	125.00	0.17	5.55	3.54	92.50	38.60	0.17	19.50	Clear	None	
14:15	59.68	125.00	0.17	5.48	3.25	127.60	28.80	0.16	19.40	Clear	None	
14:20	59.66	125.00	0.17	5.3	3.25	143.10	26.00	0.16	19.60	Clear	None	
14:25	59.65	125.00	0.17	5.14	3.24	149.10	19.50	0.15	19.40	Clear	None	
14:30	59.69	125.00	0.17	5.12	3.22	149.00	12.80	0.15	19.40	Clear	None	

Sampling Data

Zero HS:

Method: Date: 11-06-2019 Time: 14:30 Total Volume Purged (gallons): 1

Field Parameters

STABILIZED PARAMETERS	
pH	5.12
Spec. Cond.(mS/cm)	0.15
Turbidity (NTU)	12.80
Temp.(°C)	19.40
DO (mg/L)	3.22
ORP (mV)	149.00

Screen Interval: 110 - 120

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-15R

DuplicateID: GW4Q19-PW-15R-D

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-13 | Well Diameter: 2 Inches

Samplers: BEN KRAUSE Danielle delgado | Event: Quarterly | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 129

Pump Loc: within screen

Method: Double valve pump | Date: 11-08-2019 | Time: 13:10

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	15.816		
Initial Depth to Water (ft.):	34.2	Depth to Well Bottom (ft.):	133.05

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
13:20	34.44	125.00	0.17	9.91	4.14	212.10	293.00	0.35	18.70	Cloudy	None	
13:25	34.38	125.00	0.17	8.63	1.07	127.70	246.00	0.15	17.40	Cloudy	None	
13:30	34.45	125.00	0.17	7.97	0.89	53.80	209.00	0.13	18.00	Cloudy	None	
13:35	34.44	125.00	0.17	7.56	0.86	18.40	170.00	0.12	17.90	Cloudy	None	
13:40	34.42	125.00	0.17	7.23	0.82	0.70	157.00	0.12	18.20	Cloudy	None	
13:45	34.44	125.00	0.17	7.08	0.82	-12.60	141.00	0.11	17.30	Cloudy	None	
13:50	34.44	125.00	0.17	6.99	0.83	-21.70	132.00	0.11	18.00	Cloudy	None	
13:55	34.40	125.00	0.17	6.9	0.83	-26.30	113.00	0.11	17.70	Cloudy	None	
14:00	34.42	125.00	0.17	6.89	0.80	-32.00	107.00	0.11	18.20	Cloudy	None	
14:05	34.44	125.00	0.17	6.85	0.81	-32.90	97.00	0.11	17.90	Cloudy	None	
14:11	34.44	125.00	0.17	8.7	0.81	-30.10	95.00	0.11	17.60	Cloudy	None	
14:15	34.44	125.00	0.17	6.7	0.88	-26.20	89.00	0.11	17.70	Cloudy	None	
14:20	34.44	125.00	0.17	6.63	0.97	-23.10	87.00	0.10	16.70	Cloudy	None	
14:25	34.44	125.00	0.17	6.55	0.98	-23.40	86.80	0.10	17.90	Cloudy	None	
14:30	34.44	125.00	0.17	6.54	1.00	-23.00	83.30	0.10	17.80	Cloudy	None	
14:35	34.44	125.00	0.17	6.48	1.10	-20.00	94.00	0.10	17.90	Cloudy	None	
14:40	34.44	125.00	0.17	6.46	1.10	-19.70	99.10	0.10	18.10	Cloudy	None	
14:45	34.44	125.00	0.17	6.42	1.09	-19.50	98.10	0.10	18.00	Cloudy	None	
14:50	34.44	125.00	0.17	6.39	1.19	-18.40	103.00	0.10	17.60	Cloudy	None	
14:55	34.44	125.00	0.17	6.38	1.19	-17.00	97.20	0.10	17.10	Cloudy	None	

Sampling Data

Zero HS:

Method: | Date: 11-08-2019 | Time: 15:00 | Total Volume Purged (gallons): 3.33

Field Parameters

STABILIZED PARAMETERS	
pH	6.38
Spec. Cond.(mS/cm)	0.10
Turbidity (NTU)	97.20
Temp.(°C)	17.10
DO (mg/L)	1.19
ORP (mV)	

Screen Interval: 120 - 130

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-13

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER K. Stuart	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc: bottom of well

Method: Date: 11-07-2019 Time: 11:14

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.277		
Initial Depth to Water (ft.):	40.04	Depth to Well Bottom (ft.):	41.77

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
11:20	40.04		0.25	5.97	5.29	316.90	83.10	0.09	21.30	Cloudy	None	Went dry before we could sample water

Sampling Data

Zero HS:

Method: Date: 11-07-2019 Time: 11:28 Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.97
Spec. Cond.(mS/cm)	0.09
Turbidity (NTU)	83.10
Temp.(°C)	21.30
DO (mg/L)	5.29
ORP (mV)	316.90

Screen Interval: 28 - 38

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	✔
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-07

DuplicateID:

Well ran dry

WEATHER CONDITIONS	
Temperature (F):	71.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	2

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	BEN KRAUSE Danielle Delgado	Event:	Quarterly	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc:

Method: Date: 11-08-2019 Time: 09:17

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.256		
Initial Depth to Water (ft.):	40.15	Depth to Well Bottom (ft.):	41.75

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			

Sampling Data

Zero HS:

Method: Grab Date: 11-08-2019 Time: 09:30 Total Volume Purged (gallons): 0

Field Parameters

STABILIZED PARAMETERS	
pH	
Spec. Cond.(mS/cm)	
Turbidity (NTU)	
Temp.(°C)	
DO (mg/L)	
ORP (mV)	

Screen Interval: 28 - 38

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	✔

Sample ID: GW4Q19-PW-07

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	Sunny
Precipitation:	None
Wind (mph)	

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-6S | Well Diameter: 2 Inches

Samplers: Brandon Peach and Savannah Volkoff | Event: | Project Manager:

Purging Data

Pump Depth: `23

Pump Loc:

Method: | Date: 10/29/2019 | Time: 1235

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 14.52 | Depth to Well Bottom (ft.): 31.54

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1235												BEGIN PURGING
1240	15.07	175.00		4.52	0.83	251.40	30.30	0.094	18.5			
1246	15.14	185.00		4.50	0.63	247.70	33.50	0.094	18.4			
1251	15.23	185.00		4.46	0.61	240.90	30.50	0.094	18.3			
1256	15.20	175.00		4.52	0.48	237.10	35.90	0.094	18.3			
1304	15.20	175.00		4.65	0.46	215.00	33.50	0.093	18.1			
1309	15.26	-		4.64	0.46	210.80	24.10	0.093	18.1			
1314	15.25	-		4.63	0.52	210.90	20.50	0.093	18.1			
1319	15.29	-		4.61	0.56	213.20	31.70	0.093	18.0			
1324	15.31	-		4.6	0.55	210.20	14.20	0.093	18.0			

Sampling Data

Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.60
Spec. Cond.(mS/cm)	0.09
Turbidity (NTU)	14.20
Temp.(°C)	18.00
DO (mg/L)	0.55
ORP (mV)	210.20

Screen Interval: 18-28

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-7S | Well Diameter: 2 Inches

Samplers: Brandon Peach and Savannah Volkoff | Event: | Project Manager:

Purging Data Pump Depth: `12

Pump Loc:

Method: | Date: 10/31/2019 | Time: 1100

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 5.73 | Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1100	5.40	150.00		5.88	0.81	68.10	19.10	0.145	19.7			
1106	5.70	200.00		5.87	0.49	50.10	26.10	0.015	19.3			
1111	5.60	200.00		5.86	0.48	40.20	20.30	0.146	19.1			
1116	5.90	200.00		5.89	0.37	30.40	19.70	0.015	18.9			
1121	6.00	200.00		5.93	0.39	23.00	19.29	0.152	18.9			
1126	6.00	200.00		5.97	0.38	17.90	6.85	0.153	18.9			
1130	6.01	200.00		6.01	0.35	13.70	4.46	0.154	18.9			
1135	5.90	200.00		6.03	0.40	11.00	6.97	0.154	18.9			
1140	6.00	200.00		6.05	0.35	8.80	4.83	0.155	18.8			
1145	6.00	200.00		6.06	0.35	7.50	2.86	0.155	18.8			
1150	6.00	200.00		6.07	0.31	6.10	2.49	0.154	18.9			
1155	6.01	200.00		6.08	0.34	5.90	2.70	0.153	18.9			
1200	6.00	200.00		6.08	0.31	5.30	3.92	0.152	18.9			

Sampling Data Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	6.08
Spec. Cond.(mS/cm)	0.15
Turbidity (NTU)	3.92
Temp.(°C)	18.90
DO (mg/L)	0.31
ORP (mV)	5.30

Screen Interval: 7-17=10FT

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-04 | Well Diameter: 2 Inches

Samplers: Brandon Peach and Savannah Volkoff | Event: | Project Manager:

Purging Data

Pump Depth: 22

Pump Loc:

Method: | Date: 10/29/2019 | Time: 1635

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 28.25 | Depth to Well Bottom (ft.): 30.8

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1635	28.78	50.00		4.02	1.32	316.40	8.3	0.442	19.7			1620 begin purge
1640	29.31	50.00		3.96	0.87	320.90	16.7	0.417	19.7			1625 stop and cut new tubing 30ft
1645	29.68	25.00		3.96	0.78	315.40	46.9	0.401	19.7			1629 begin purge
1650	29.90	25.00		3.90	0.76	306.80	24.6	0.416	19.7			
1655	30.20	25.00		4.00	0.81	300.50	18.0	0.426	19.8			
1700	30.64	25.00		4.01	0.84	297.10	12.4	0.433	19.7			

Sampling Data

Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	4.01
Spec. Cond.(mS/cm)	0.43
Turbidity (NTU)	12.40
Temp.(°C)	19.70
DO (mg/L)	0.84
ORP (mV)	297.10

Screen Interval: 10

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PW-06 | Well Diameter: 2 Inches

Samplers: Brandon Peach and Savannah Volkoff | Event: | Project Manager:

Purging Data

Pump Depth: 14

Pump Loc:

Method: | Date: 10/29/2019 | Time: 1420

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume =

Initial Depth to Water (ft.): 19.54 | Depth to Well Bottom (ft.): 32.84

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr.	ft.	ml/min.	gal.		mg/L	mV	NTU	mS/cm	°C			
1420												BEGIN PURGING
1425	20.20	175.00		3.94	3.00	392.40	2.23	0.087	19.1			
1430	20.23	75.00		4.03	2.58	380.00	1.41	0.084	19.1			
1435	20.20	-		4.27	2.24	330.50	1.19	0.074	19.1			
1440	20.26	125.00		4.37	3.30	319.80	1.15	0.071	19.0			
1445	20.30	125.00		4.50	3.28	301.20	1.01	0.068	19.0			
1450	20.31	125.00		4.67	3.11	179.10	1.71	0.066	19.0			
1455	20.34	125.00		4.76	3.46	265.30	1.22	0.065	19.0			
1500	20.27	125.00		4.92	2.56	242.50	1.52	0.066	19.0			
1505	20.27	125.00		4.98	3.29	235.40	1.27	0.066	19.0			
1510	20.29	125.00		4.99	3.06	228.20	1.25	0.066	18.9			
1515		125.00		5.12	3.29	216.70	1.38	0.067	19.0			

Sampling Data

Zero HS:

Method: | Date: | Time: | Total Volume Purged (gallons):

Field Parameters

STABILIZED PARAMETERS	
pH	5.12
Spec. Cond.(mS/cm)	0.07
Turbidity (NTU)	1.38
Temp.(°C)	19.00
DO (mg/L)	3.29
ORP (mV)	216.70

Screen Interval: 10

SAMPLE SET				
Parameter	Bottle	Pres.	Method	
PFAS	2-250 mL poly	NP	EPA 537 Modified	
PFAS	250 mL poly	NP	Table 3	
PFAS	250 mL poly	NP	Table 3+	

Sample ID:

DuplicateID:

WEATHER CONDITIONS	
Temperature (F):	
Sky:	
Precipitation:	
Wind (mph)	

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DATA REVIEW NARRATIVES AND LABORATORY REPORTS

DATA REVIEW NARRATIVES AND LABORATORY REPORTS

Data review narratives are included in this appendix. Due to file size limits, analytical laboratory reports will be provided separately with the hard copy of the report.

All analytical data were reviewed using the Data Verification Module (DVM) within the Locus™ Environmental Information Management (EIM) system, which is a commercial software program used to manage data. Following the DVM process, a manual review of the data was conducted. The DVM and the manual review results were combined in a data review narrative report for each set of sample results, which were consistent with Stage 2b of the EPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (EPA-540-R-08-005 2009). The narrative report summarizes which samples were qualified (if any), the specific reasons for the qualification, and any potential bias in reported results. The data usability, in view of the project's data quality objectives (DQOs), was assessed and the data were entered into the EIM system.

The data were evaluated by the DVM against the following data usability checks:

- Hold time criteria;
- Field and laboratory blank contamination;
- Completeness of QA/QC samples;
- MS/MSD recoveries and the relative percent differences (RPDs) between these spikes;
- Laboratory control sample/control sample duplicate recoveries and the RPD between these spikes;
- Surrogate spike recoveries for organic analyses; and
- RPD between field duplicate sample pairs.

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **Creeks Seeps Old Outfall 002 9/19**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **September 17 - 18, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

[1] Perfluoroalkylsubstances, a list of 33 compounds including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

All samples were received in satisfactory condition and within EPA temperature guidelines on September 19, 2019

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- Some table 3+ results in three water samples were qualified B and the reported results may be biased high, or false positives, due to a comparable concentration found in the associated equipment blank. Byproduct 5 and PFMOAA results in sample ID EXCESS RIVER WATER-091719 were also impacted by an MS RPR outside criteria indicating estimated results but the B qualifier supercedes the J qualifier.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to a poor laboratory matrix spike; sample analysis which exceeded the laboratory preparation hold time; and poor field duplicate or lab replicate precision. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference / percent difference between total and dissolved sample pairs.

There are two qualifier fields in EIM:

Lab Qualifier is the qualifier assigned by the lab and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the lab qualifiers. As they are lab descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the lab qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to "DVM" if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals "DVM"), use the **Validation Qualifier.**

DVM Narrative Report

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	Byproduct 5	0.0027	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	Byproduct 5	0.0027	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	PFO2HxA	0.015	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	PFO2HxA	0.015	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	PFMOAA	0.0080	ug/L	PQL		0.0050	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	PFMOAA	0.0079	ug/L	PQL		0.0050	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-1-091719	09/17/2019	320-54544-1	Byproduct 5	2.8	UG/L	PQL		0.29	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-1-091719	09/17/2019	320-54544-1	Byproduct 5	3.1	UG/L	PQL		0.29	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-76-091719	09/17/2019	320-54544-2	PFO2HxA	0.0045	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-76-091719	09/17/2019	320-54544-2	PFO2HxA	0.0050	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EB-01-091819	09/18/2019	320-54536-6	Hfpo Dimer Acid	0.0040	UG/L	PQL		0.0040	UJ	537 Modified		3535_PFC

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	R-EVE	0.0044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	R-EVE	0.0043	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	Byproduct 4	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	Byproduct 4	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	Byproduct 5	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-68-091719	09/17/2019	320-54536-3	Byproduct 5	0.0031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	R-EVE	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	R-EVE	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	Byproduct 4	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	Byproduct 4	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	Byproduct 5	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	R-EVE	0.0031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	R-EVE	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	Byproduct 4	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	Byproduct 5	0.0046	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	Byproduct 5	0.0049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	R-EVE	0.0074	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	R-EVE	0.0082	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	Byproduct 4	0.018	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	Byproduct 4	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	Byproduct 5	0.046	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	Byproduct 5	0.049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	R-EVE	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	Byproduct 4	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	Byproduct 5	0.033	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	Byproduct 5	0.033	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	Byproduct 5	0.032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	Byproduct 5	0.034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	PFMOAA	0.69	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	PFMOAA	0.67	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	R-EVE	0.034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	R-EVE	0.034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	Byproduct 4	0.061	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method SOP	Pre-prep	Prep
WC-1-091719	09/17/2019	320-54543-1	Byproduct 4	0.059	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	Byproduct 5	0.30	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WC-1-091719	09/17/2019	320-54543-1	Byproduct 5	0.28	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	R-EVE	0.0071	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	R-EVE	0.0072	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	Byproduct 4	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GBC-1-091719	09/17/2019	320-54543-3	R-EVE	0.018	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GBC-1-091719	09/17/2019	320-54543-3	R-EVE	0.018	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GBC-1-091719	09/17/2019	320-54543-3	Byproduct 4	0.037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GBC-1-091719	09/17/2019	320-54543-3	Byproduct 4	0.037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	Byproduct 4	0.026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	Byproduct 4	0.027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	Byproduct 5	0.15	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	R-EVE	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819	09/17/2019	320-54545-3	Byproduct 4	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	R-EVE	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	R-EVE	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	Byproduct 4	0.0096	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-KINGS-091819-D	09/17/2019	320-54545-4	Byproduct 4	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-RM-52-091719	09/17/2019	320-54545-2	Byproduct 5	0.0056	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-RM-56-091719	09/17/2019	320-54545-1	Byproduct 4	0.017	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EXCESS RIVER WATER-091719	09/17/2019	320-54544-3	Byproduct 4	0.018	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	NVHOS	0.0097	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	NVHOS	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	R-EVE	0.0060	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	R-EVE	0.0071	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	Byproduct 5	0.17	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP D-1-091719	09/17/2019	320-54536-1	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP D-1-091719	09/17/2019	320-54536-1	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-3-091719	09/17/2019	320-54491-3	Perfluorobutane Sulfonic Acid (trial)	0.087	UG/L	PQL		0.019	J	537 Modified		3535_PFC
SEEP-A-4-091719	09/17/2019	320-54491-2	PFESA-BP1	0.10	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-4-091719	09/17/2019	320-54491-2	PFESA-BP1	0.12	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-4-091719	09/17/2019	320-54491-2	PFO4DA	2.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-4-091719	09/17/2019	320-54491-2	PFO4DA	3.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-TR1-091719	09/17/2019	320-54491-1	PFO4DA	1.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-TR1-091719	09/17/2019	320-54491-1	PFO4DA	1.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-TR1-091719	09/17/2019	320-54491-1	Byproduct 5	0.25	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-TR1-091719	09/17/2019	320-54491-1	Byproduct 5	0.29	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-TR1-091719	09/17/2019	320-54489-2	R-EVE	0.39	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-TR1-091719	09/17/2019	320-54489-2	R-EVE	0.43	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	PFMOAA	0.15	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	PFMOAA	0.15	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	PFMOAA	0.073	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
OUTFALL 002-091719	09/17/2019	320-54536-2	PFMOAA	0.080	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Creeks Seeps Old Outfall 002 9/19 **Validation Options:** LABSTATS

Validation Reason The preparation hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-BLADEN-091819	09/18/2019	320-54536-4	Hfpo Dimer Acid	0.039	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
OUTFALL 002-091719	09/17/2019	320-54536-2	Hfpo Dimer Acid	0.081	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
SEEP D-1-091719	09/17/2019	320-54536-1	Hfpo Dimer Acid	16	UG/L	PQL		0.14	J	537 Modified		3535_PFC