APPENDIX A

On and Offsite Assessment Tables

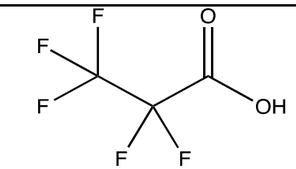
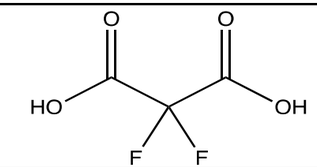
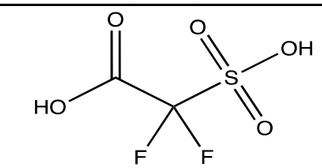
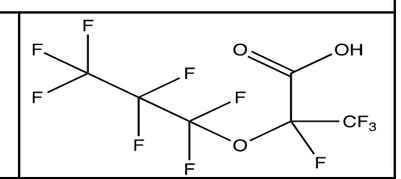
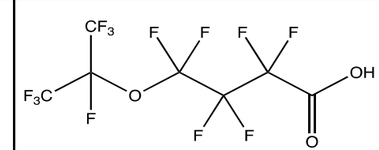
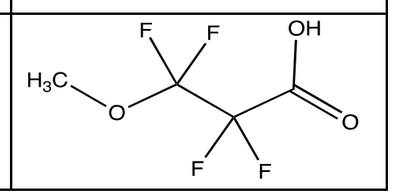
TABLES

TABLE A 2-1
SOIL AND GROUNDWATER ANALYTICAL METHODS - PFAS
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
	PFMOAA	Perfluoro-2-methoxyaceticacid	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
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	C7HF13O7
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	C4HF7O3
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	C5HF9O3
	PFESA-BP1	Byproduct 1	29311-67-9	C7HF13O5S
	PFESA-BP2	Byproduct 2	749836-20-2	C7H2F14O5S
	Byproduct 4	Byproduct 4	N/A	C7H2F12O6S
	Byproduct 5	Byproduct 5	N/A	C7H3F11O7S
	Byproduct 6	Byproduct 6	N/A	C6H2F12O4S
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	C4H2F8O4S
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	C8HF13O4
	Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	C8H2F14O4
	R-EVE	R-EVE	N/A	C8H2F12O5
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	C4HF9O4S
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	C5HF9O4
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	C12H9F9O3S
EPA Method 537 Mod	10:2 FTS	10:2-fluorotelomersulfonate acid	120226-60-0	C12H5F21O3
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	C10H5F17O3S
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	C6H5F9O3S
	NEtPFOSAE	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	C8F17SO2N(C2H5)CH2CH2OH
	NMePFOSAE	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	C8F17SO2N(CH3)CH2CH2OH
	6:2 FTS	6:2 fluorotelomer sulfonate	27619-97-2	C8H5F13SO3
	ADONA	Ammonium 4,8-dioxa-3H-perfluorononanoate	958445-44-8	CF3O(CF2)3OCHFCF2COONH4
	NaDONA	Sodium 4,8-dioxa-3H-perfluorononanoate	EVS1361	CF3O(CF2)3OCHFCF2COONa
	NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	C8F17SO2N(C2H5)CH2COOH
	NEtPFOSA	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	C8F17SO2NHCH2CH3
	NMePFOSA	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	C8F17SO2NHCH3
	NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	C8F17SO2N(CH3)CH2COOH
	PFBS	Perfluorobutane sulfonic acid	375-73-5	C4HF9SO
	PFBA	Perfluorobutanoic acid	375-22-4	C4HF7O2
	PFDS	Perfluorodecane sulfonic acid	335-77-3	C10HF21O3S
	PFDA	Perfluorodecanoic acid	335-76-2	C10HF19O2
	PFDOS	Perfluorododecane sulfonic acid	79780-39-5	C12HF25O3S
	PFDoA	Perfluorododecanoic acid	307-55-1	C12HF23O2
	PFHpS	Perfluoroheptane sulfonic acid	375-92-8	C7HF15O3S
	PFHpA	Perfluoroheptanoic acid	375-85-9	C7HF13O2
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	C16HF31O2
	PFHxS	Perfluorohexane sulfonic acid	355-46-4	C6HF13SO3
	PFHxA	Perfluorohexanoic acid	307-24-4	C6HF11O2
	PFNS	Perfluorononanesulfonic acid	68259-12-1	C9HF19O3S
	PFNA	Perfluorononanoic acid	375-95-1	C9HF17O2
	PFODA	Perfluorooctadecanoic acid	16517-11-6	C18HF35O2
	PFOSA	Perfluorooctane sulfonamide	754-91-6	C8H2F17NO2S
	PFPeS	Perfluoropentane sulfonic acid	2706-91-4	C5HF11O3S
	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
	PFOA	Perfluorooctanoic acid	335-67-1	C8HF15O
	PFOS	Perfluorooctane sulfonic acid	1763-23-1	C8HF17SO3
	F-53B Major	F-53B Major	73606-19-6	C8HClF16O4S
	F-53B Minor	F-53B Minor	83329-89-9	C10HClF20O4S

Notes:
*Depending on the laboratory, HFPO-DA may also appear on the EPA Method 537 Mod analyte list
EPA - Environmental Protection Agency
PFAS - per- and polyfluoroalkyl substances
SOP - Standard Operating Procedure

TABLE A 4-1
CLASSIFICATION OF TABLE 3+ PFAS
Chemours Fayetteville Works, North Carolina

Common Name	Chemical Name	CAS #	Formula	Degree of Fluorination	Ether Bonds	Isomer type	Functional Groups			Diprotic[d]	Structure
							R-C=C[a]	R-CO_2H[b]	R-SO_3H[c]		
PFAS without ether linkages											
PPF Acid	Perfluoropropionic acid	422-64-0	$C_3HF_5O_2$	Per	0	Linear	--	✓	--	--	
MMF	Difluoromalonic acid	1514-85-8	$C_3H_2F_2O_4$	Per	0	Linear	--	✓	--	✓	
DFSA	Difluoro-sulfo-acetic acid	422-67-3	$C_2H_2F_2O_5S$	Per	0	Linear	--	✓	✓	✓	
Per- and polyfluoroalkyl ether carboxylic acids (PFECAs)											
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	$C_6HF_{11}O_3$	Per	1	Branched	--	✓	--	--	
PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	$C_7H_1F_{13}O_1$	Per	1	Branched	--	✓	--	--	
MTP	Perfluoro-2-methoxypropanoic acid	93449-21-9	$C_4H_4F_4O_3$	Poly	1	Linear	--	✓	--	--	

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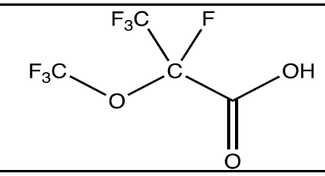
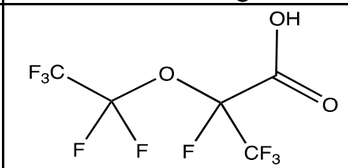
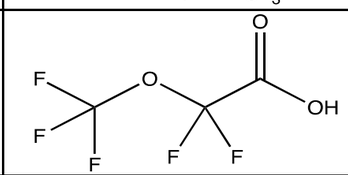
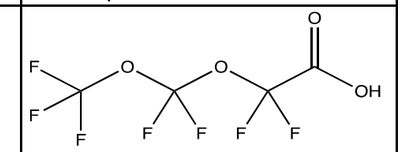
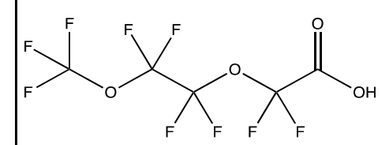
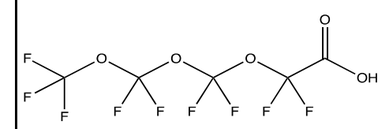
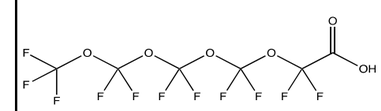
Chemours Fayetteville Works, North Carolina

Common Name	Chemical Name	CAS #	Formula	Degree of Fluorination	Ether Bonds	Isomer type	Functional Groups			Diprotic[d]	Structure
							R-C=C[a]	R-CO_2H[b]	R-SO_3H[c]		
PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	$C_4HF_7O_3$	Per	1	Branched	--	✓	--	--	
PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	$C_5HF_9O_3$	Per	1	Branched	--	✓	--	--	
PFMOAA	Perfluoro-2-methoxyacetic acid	674-13-5	$C_3HF_5O_3$	Per	1	Linear	--	✓	--	--	
PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	$C_4HF_7O_4$	Per	2	Linear	--	✓	--	--	
PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	$C_5HF_9O_4$	Per	2	Linear	--	✓	--	--	
PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	$C_5HF_9O_5$	Per	3	Linear	--	✓	--	--	
PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	$C_6HF_{11}O_6$	Per	4	Linear	--	✓	--	--	

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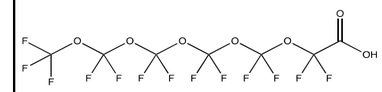
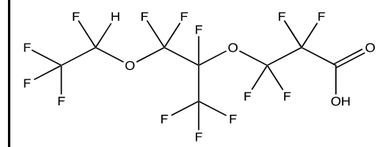
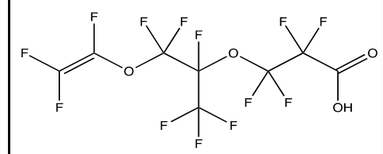
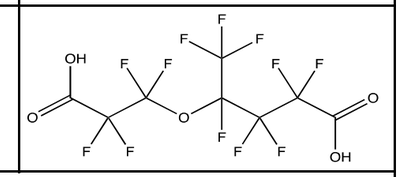
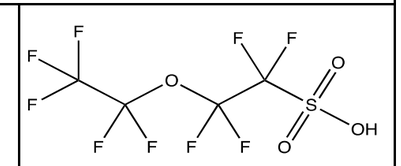
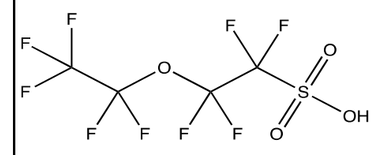
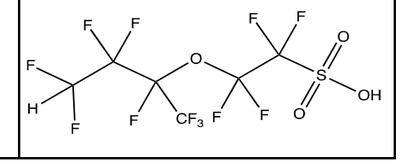
							R-C=C[a]	R-CO_2H[b]	R-SO_3H[c]		
PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	$C_7HF_{13}O_7$	Per	5	Linear	--	✓	--	--	
Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	$C_8H_2F_{14}O_4$	Poly	2	Branched	--	✓	--	--	
EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	$C_8HF_{13}O_4$	Per	2	Branched	✓	✓	--	--	
R-EVE	R-EVE	N/A	$C_8H_2F_{12}O_5$	Per	1	Branched	--	✓	--	✓	
Per- and polyfluoroalkyl ether sulfonic acids (PFESAs)											
PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	$C_4HF_9O_4S$	Per	1	Linear	--	--	✓	--	
NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	$C_4H_2F_8O_4S$	Poly	1	Linear	--	--	✓	--	
Byproduct 6	Byproduct 6	N/A	$C_6H_2F_{12}O_4S$	Poly	1	Branched	--	--	✓	--	

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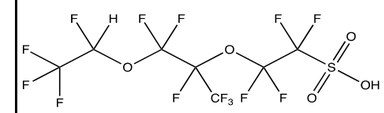
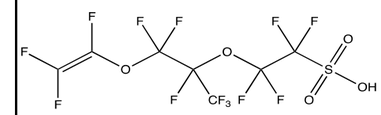
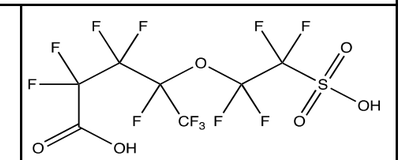
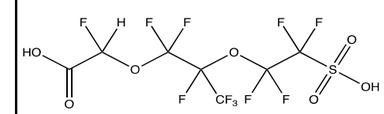
							R-C=C[a]	R-CO_2H[b]	R-SO_3H[c]		
Byproduct 2	Byproduct 2	749836-20-2	$C_7H_2F_{14}O_5S$	Poly	2	Branched	--	--	✓	--	
PFESA-BP1	Byproduct 1	29311-67-9	$C_7HF_{13}O_5S$	Per	2	Branched	✓	--	✓	--	
Per- and polyfluoroalkyl ether sulfonic and carboxylic acids (PFES-CAs)											
Byproduct 4	Byproduct 4	N/A	$C_7H_2F_{12}O_6S$	Per	1	Branched	--	✓	✓	✓	
Byproduct 5	Byproduct 5	N/A	$C_7H_3F_{11}O_7S$	Poly	2	Branched	--	✓	✓	✓	

Notes:
[a] Carbon double bond functional group
[b] Carboxylic acid functional group
[c] Sulfonic acid functional group
[d] Compound with two acid functional groups

TABLE A 5-1
PUBLIC/ COMMUNITY WATER SUPPLY WELLS
Chemours Fayetteville Works, North Carolina

PWS ID	Location Name	Address	City	Location Description 1	Location Description 2	Depth (feet)	Distance from Site (miles)	Usage
0326127	BROOKWOOD COMM WTR SYSTEM	6902 SANDBRIDGE DRIVE	FAYETTEVILLE	SHENANDOAH, JUSTIN CT- 5718 JUSTIN COURT AWAY FROM FENCE.	OFFICE AT THE END OF BRYANSTONE WAY	80	14.9	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326341	STONEY POINT WS/FAYETTEVILLE PWC	-	FAYETTEVILLE	STONEY POINT & ROUSE DR	SR 2986 OFF SR 1112	90	13.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
5026009	CRYSTAL SPRINGS CHAPEL	1400 CRYSTAL SPRINGS RD	FAYETTEVILLE	NEXT TO PARKING AREA	ON CRYSTAL SPRINGS ROAD APPROX 1/2MILES OIW CAMDEN ROAD	30	12.5	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326310	RAINTREE MHP	3580 STATE ST	FAYETTEVILLE	BEHIND MHP@PLAYGOURND	OFF CAMDEN RD AT END OF STATE STREET	100	12.1	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326143	COPELAND ACRES S/D	583 REILLY RD	FAYETTEVILLE	OFF CRAMER IN POWER LINE EASEMENT	CAMDEN ROAD & ORION DRIVE - 1 MI EAST OF HOPE MILLS ROAD	75	12.1	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326428	MACEDONIA BAPTIST CHURCH	5064 MACEDONIA CHURCH RD	FAYETTEVILLE	IN FRONT OF OLD FELLOWSHIP HALL	SR2013 .4MI N OIW NC210 - 5064 MACEDONIA CHURCH RD	-	11.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326924	KINGDOM HALL (SR-2008)	JUDSON CHURCH ROAD	FAYETTEVILLE	@ NW CORNER OF CH IN REAR, BELOW GRADE	SR2008 0.6MI NE OIW NC53L BEHIND JUDSON CH RD	-	11.8	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326548	FANTASY LAKE	5869 PERMASTONE DR	HOPE MILLS	AT EQUIPMENT SHED PAST LOCKED GATE, EAST SIDE OF LAKE	@END OF PERMASTONE DRIVE OFF GOLFVIEW DR W OF HOPE MILLS	323	11.5	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326955	STRICKLAND GROCERY NO 2	5205 NC HWY 210 S	STEDMAN	NEXT TO ROAD	AT THE Y OF NC210 & SR2018	-	11.5	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326411	CHURCH OF GOD OF PROPHECY	5371 NC 210 S	STEDMAN	N SIDE OF CH NEXT TO REAR DOOR TOWARDS PARKING LOT	NC 210- 0.1MI SE OIW SR2018	-	11.4	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5026029	DOLLAR GENERRAL STORE #15984	2222 CEDAR CREEK RD	FAYETTEVILLE	FRONT RIGHT CORNER OF PARKING LOT	N ON GREEN ST RT ON GROVE ST RT ON CEDAR CREEK RD	33	11.4	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326143	COPELAND ACRES S/D	583 REILLY RD	FAYETTEVILLE	OFF BURGAW DRIVE	CAMDEN ROAD & ORION DRIVE - 1 MI EAST OF HOPE MILLS ROAD	85	11.4	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
5026017	ST JUDE BAPTIST CHURCH	3600 ACORDIA LN	HOPE MILLS	BESIDE CHURCH NEAR PARKING AREA	END OF ACORDIA LN OFF LEGION RD	91	11.2	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326342	TANGLEWOOD ESTATES S/D	HWY 301	FAYETTEVILLE	BACK OF DEVELOPMENT	HWY 301 PAST INTERSECTION WITH AIRPORT RD	75	11.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326342	TANGLEWOOD ESTATES S/D	HWY 301	FAYETTEVILLE	FRONT OF DEVELOPMENT IN MH SALES LOT	HWY 301 PAST INTERSECTION WITH AIRPORT RD	120	11.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326796	NC PRODUCTS OF FAYETTEVILLE	3960 CEDAR CREEK ROAD	FAYETTEVILLE	BACK OF SITE/ NORTH SIDE	NC 53 0.3 MI S OIW NC210 R	74	10.2	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5326406	HERITAGE BIBLE FELLOWSHIP	4519 CALICO ST	HOPE MILLS	NORTH EAST CORNER OF LOT	ON CALICO ROAD 1/2 MILE OFF CAMDEN ROAD	-	9.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326776	THE ARC OF HOPE MILLS	4124 PEACAN DRIVE	HOPE MILLS	AT REAR OF REST HOME	ON CAMERON RD APPX 1/2 MILE FROM HOPE MILL CITY LIMITS	200	9.8	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326302	LAZY ACRES CAMPGROUND	821 LAZY ACRES STREET	FAYETTEVILLE	BEHIND OFFICE	821 LAZY ACRES ST - OFF SR-2341 .3MI OIW SR-2219	69	9.7	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326701	VFW POST 670	3928 DOC BENNET	FAYETTEVILLE RD	REAR OF VFW LOT SE CORNER	2MI NO OIW NC 87 AND DOC BENNETTE RD NEAR AIRPORT	65	9.7	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326570	MT CALVARY MISSIONARY BAPTIST	3398 DOC BENNETT RD	FAYETTEVILLE	IN FRONT OF CHURCH	ON DOC BENNETT RD APPROX .1MI W OIW I-95 SOUTH -	-	9.4	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326516	SHORT STOP #63	-	FAYETTEVILLE	AT REAR OT STORE	HWY 53 IOW TABOR CHURCH RD	-	9.1	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326538	CEDAR CREEK BAPTIST CHURCH	4170 TABOR CHURCH ROAD	FAYETTEVILLE	NEXT TO BALL FIELD @OLD WELL	ON SR 2033 JUST OFF NC 53 INTER WITH THE CONVIENCE STORE - 4170 TABOR CHURCH RD	455	9.0	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5326413	FED EX FREIGHT	-	HOPE MILLS	S OF BLDG NEXT TO FENCE	ON SERVICE RD OFF NC 301S SO OF HOPE MILLS EXIT NC 301	-	8.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326864	GREATER FIRST BAPTIST CHURCH	3398 MCKINNON RD	FAYETTEVILLE	E OF CH NEXT TO DRIVEWAY	OFF MCKINNIN RD 1/2 MILE FROM INTER WNC53 CEDAR CK COMM	-	8.8	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5026028	NEW VISION CHRISTIAN CHURCH	6111 MCDONALD RD	PARKTON	IN FORNT OF CHURCH	ON MCDONALD RD, APPX 1 MILE W ON US 301	-	8.7	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326865	GREGORY POOLE EQUIPMENT CO	5663 US 301 S	HOPE MILLS	-	1 MILE S OIW US 301 & CHICKEN FOOT ROAD	78	8.7	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0378030	SAINT PAULS, TOWN OF	110 WEST MCLEAN ST	ST PAULS	ODOM RD	WATER TREATMENT PLANT	321	8.6	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326687	UNION OAK AME ZION CHURCH	6142 HIGHWAY 301 SOUTH	HOPE MILLS	SOUTH OF CHURCH NEXT TO FIELD	NEAR CO LINE ON NC 301	-	8.5	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0378030	SAINT PAULS, TOWN OF	110 WEST MCLEAN ST	ST PAULS		WATER TREATMENT PLANT	142	8.4	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0309040	TAR HEEL WATER CORP	-	TAR HEEL	SR 2354 MAIN ST-0.2 M S OF ARMFIELD	OFF HWY 87 IN TARHEEL	135	8.3	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.

TABLE A 5-1
PUBLIC/ COMMUNITY WATER SUPPLY WELLS
Chemours Fayetteville Works, North Carolina

PWS ID	Location Name	Address	City	Location Description 1	Location Description 2	Depth (feet)	Distance from Site (miles)	Usage
0378030	SAINT PAULS, TOWN OF	110 WEST MCLEAN ST	ST PAULS	CLARK ST	WATER TREATMENT PLANT	340	8.1	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326503	MT PISGAH BAPTIST CHURCH	3350 BUTLER NURSERY RD	FAYETTEVILLE	IN FRONT OF CHURCH IN OLD BRICK PUMP HOUSE.	3350 BUTLER NURSERY RD, NC 87S OF FAYETTEVILLE OVER RIVER RD TO RT FROM F-VILLE NC	-	7.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5078003	MARSHLACK MHP #1	-	PARKTON	AT THE END OF SOUTHERN COMFORT DR	AT SOUTHERN COMFORT AIR RANCH LITTLE MARSH RD OFF HWY 301 SOUTH. ROBESON/CUMBERLAND CO LINE	100	7.8	(State Def) 2+ systems that are adjacent, owned or operated by same supplier of water, and together serve 15+ connections or 25+ people.
5078004	MARSHLACK MHP #2	ROBESON CUMBERLAND AND CO LINE	PARKTON	AT THE END OF SOUTHERN COMFORT DR	AT SOUTHERN COMFORT AIR RANCH LITTLE MARSH RD OFF HWY 301 SOUTH SOUTH SLIGHTLY NORTH WEST OF PROPERT	100	7.8	(State Def) 2+ systems that are adjacent, owned or operated by same supplier of water, and together serve 15+ connections or 25+ people.
0309040	TAR HEEL WATER CORP	-	TAR HEEL	HWY 87 JUST NORTH OF SCHOOL	OFF HWY 87 IN TARHEEL	115	7.5	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326572	BAPTIST UNION MISSIONARY BAPTIST CHURCH	1483 SAND HILL RD	HOPE MILLS	REAR OF CHURCH IN BRICK WELLHOUSE	ON SR2238 SANDHILL RD APPX .5MI E OIW SR2239 SANDHILL RD	60	7.3	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0309523	CAPE FEAR SCOUT RESERVATION	13165 HWY 53 WEST	WHITE OAK	BEHIND RANGERS HOME	ON NC 53 APPROX 2 MILE N OF WHITE OAK	98	7.3	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	EAST OF PLANT	HWY 87 N OF TAR HEEL 1 M	410	7.1	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	AT REAR OF LAGOON BETWEEN W01 AND WO2	HWY 87 N OF TAR HEEL 1 M	400	7.0	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	SO OF PLANT BELOW LAGOON	HWY 87 N OF TAR HEEL 1 M	409	6.8	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	IN FRONT OF PLANT NEAR HWY 87	HWY 87 N OF TAR HEEL 1 M	-	6.8	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0326167	GRAY`S CREEK MHP	-	FAYETTEVILLE	BEHIND PUMMILL RESIDENCE	87 SOUTH 1MILE FROM SR 2238	70	6.5	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326167	GRAY`S CREEK MHP	-	FAYETTEVILLE	AT FRONT BESIDE PRESSURE TANK	87 SOUTH 1MILE FROM SR 2238	63	6.5	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326737	SHERWOOD PRESBYTERIAN CHURCH	4857 NC HWY 87 SOUTH	FAYETTEVILLE	FRONT OF CHURCH	NC87 0.3 MI S - SR2220 L - 4857 NC 87 S	-	6.4	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	BEHIND TRUCK SCALES, N SIDE OF PLANT	HWY 87 N OF TAR HEEL 1 M	410	6.4	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0378055	ROBESON COUNTY WATER SYSTEM	265 MCGIRT RD	MAXTON	HWY 20 0.5MI E OIW SR 1907	SR1308 OFF HWY 71 AT CAMPBELL SOUP PLANT	170	6.3	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	BEHIND CAROLINA COLD STORAGE ABOUT 300 FT W OF OLD W5A	HWY 87 N OF TAR HEEL 1 M	405	6.1	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0326445	TABOR UNITED METHODIST CHURCH	6112 TABOR CHURCH ROAD	FAYETTEVILLE	FRONT OF CHURCH, TOWARDS ROAD; BELOW GRADE	SR 2023 0.1 MI S OIW SR 2229	-	6.0	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326853	FIRST UNITED BAPT CH GRAYS CK	2002 CHICKEN FOOT RD	HOPE MILLS	FRONT LEFT OF CHURCH	HWY 59 1.5MI EAST OIW 301 SO ON RIGHT	-	6.0	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0309060	BLADEN CO WTR DIST-EAST BLADEN	-	WHITE LAKE	HWY 53 AT SR 1327	US 701 NTH SR 1796 OFFICE-AGRICULTURE RD ELIZTOWN	245	6.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	WEST SIDE OF HWY 87 N OF PLANT	HWY 87 N OF TAR HEEL 1 M	380	5.7	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0326973	MJ TAYLOR CATERING & PARADISE	1965 JOHN MCMILLIAN RD	HOPE MILLS	BEHIND HOME OFFICE @DRIVEWAY, IN OLD PASTURE AREA	3 MILES FROM I-95S JUST OFF CHICKEN FOOT RD ON SR 2242 JOHN MCMILLIAN RD	90	5.6	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5009012	BLADEN BLUFFS WATER SYSTEM	17014 HWY 87	TAR HEEL	INSIDE THE PERIMETER WHERE PLANT IS LOCATED	HWY 87S TO TAR HEEL. THE PLANT IS ON THE OPPOSITE SIDE OF SMITHFIELD PLANT	-	5.5	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0309527	SMITHFIELD FARMLAND CORP-TAR HEEL DIV	15855 NC 87 W - 9307	TAR HEEL	EAST SIDE OF HWY 87 NORTH OF PLANT	HWY 87 N OF TAR HEEL 1 M	410	5.5	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0326682	SAVANNAH BAPTIST CHURCH	-	FAYETTEVILLE	FRONT OF CHURCH NEXT TO OLD WELL	SR2023 1.3MIL S OIW SR2230 L	-	5.1	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326536	GRAYS CREEK BAPTIST CHURCH	4750 GRAYS CREEK CHURCH RD	HOPE MILLS	FRONT OF CHURCH, NEXT TO PARKING AREA	NC HWY 875, LEFT ON BLOSSOM RD, RIGHT ON GRAYS CREEK CHURCH RD.	-	4.8	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326733	CUMBERLAND UNION BAPTIST CH	6957 TABOR CHURCH RD	FAYETTEVILLE	FRONT OF CH BELOW GROUND	SR2023 0.1 MI S OIW SR2228 L - 7096 TABOR CHURCH RD	-	4.7	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0378055	ROBESON COUNTY WATER SYSTEM	265 MCGIRT RD	MAXTON	4379NC20HWY(ACROSS FOR ROCCO)	SR1308 OFF HWY 71 AT CAMPBELL SOUP PLANT	146	4.4	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0378055	ROBESON COUNTY WATER SYSTEM	265 MCGIRT RD	MAXTON	HWY 20 BY RAILROAD TRACK	SR1308 OFF HWY 71 AT CAMPBELL SOUP PLANT	113	4.2	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.

TABLE A 5-1
PUBLIC/ COMMUNITY WATER SUPPLY WELLS
Chemours Fayetteville Works, North Carolina

PWS ID	Location Name	Address	City	Location Description 1	Location Description 2	Depth (feet)	Distance from Site (miles)	Usage
5026008	GRAY`S CREEK CHURCH OF GOD	4018 CHICKEN FOOT ROAD	ST. PAULS	NORTH SIDE OF CHURCH	CHICKEN FOOT RD, APPX 5 MILES S. OF HOPE MILLS	-	4.1	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0378055	ROBESON COUNTY WATER SYSTEM	265 MCGIRT RD	MAXTON	NC 20 PECAN ORCHARD	SR1308 OFF HWY 71 AT CAMPBELL SOUP PLANT	106	4.1	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326860	SHORT TRIP	3634 CHICKENFOOT RD	HOPE MILLS	NEAR OLD WELL #2, BEHIND PINE TREES	ON CHICKEN FOOT ROAD	39	4.1	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326810	ALDERMAN ROAD ELEMENTARY	2860 ALDERMAN RD	FAYETTEVILLE	WEST SIDE OF SCHOOL	BETWEEN NC87 & SCHOOL RD	80	4.0	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
0378055	ROBESON COUNTY WATER SYSTEM	265 MCGIRT RD	MAXTON	NC 20 HAYFIELD	SR1308 OFF HWY 71 AT CAMPBELL SOUP PLANT	110	4.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
0326627	GRAYS CREEK ELEM SCHOOL	GRAY`S CREEK SCHOOL ROAD	HOPE MILLS	RIGHT OF BLDG	2964 SCHOOL RD	84	4.0	Serves at least 25 of the same persons 6+ months per year. ex. schools, daycares, industries.
5009010	MURPHY-BROWN SANITATION-TARHEEL	1023 PURDE HALL RD	TAR HEEL	BEHIND HYDRO TANK HOUSE	OFF PURDE HALL RD S OF IO NC 20 AND PURDE HALL	-	3.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
5009010	MURPHY-BROWN SANITATION-TARHEEL	1023 PURDE HALL RD	TAR HEEL	NORTH OF WELL HOUSE EDGE OF SITE	OFF PURDE HALL RD S OF IO NC 20 AND PURDE HALL	-	3.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326974	THE CREEK BAR & GRILL	4351 CHICKENFOOT RD	ST PAULS	REAR OF RESTAURANT NW CORNER	6.6 MILES OFF I95 ON SR 2252 CHICKEN FOOT RD - 4351 CHICKENFOOT RD	-	3.9	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326571	MARVIN UNITED METHODIST CHURCH	6740 NC 87 SOUTH	FAYETTEVILLE	E OF CHURCH NEXT TO DRIVEWAY TOWARDS HIGHWAY	INTER OF NC 87 AND SR 1500 NEAR BALDEN CO. LINE	-	3.6	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0309055	BLADEN CO WTR DIST-WEST BLADEN	-272 SMITH CIRCLE	ELIZABETHTOWN	SR 1300 1 MI NORTH NORTH OIW HWY 20	WESTERN PART OF BLADEN CO	98	3.0	Serves 15+ connections or regularly serves 25+ year-round residents. ex. cities, towns, subdivisions.
5026014	CHARITY BAPTIST CHURCH	5923 SHILOAH CHURCH DRIVE	FAYETTEVILLE	IN FRONT OF CHURCH	JUST OFF NC 87 SOUTH OF FAYETTEVILLE SHILOAH CH DR	60	2.5	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326569	MT VERNON BAPTIST CHURCH	3184 COUNTY LINE RD	FAYETTEVILLE	FRONT OF CHURCH	ON CO. LINE ROAD APPX 3 MILES FROM CHICKENFOOT ROAD - 3184 COUNTY LINE RD	-	2.2	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.
0326735	WILLIS CREEK AME ZION CHURCH	-	FAYETTEVILLE	WITHIN 3' OF WELL #1	NC 87 SOUTH 4MI. OIW SR 2232	-	1.8	Serves 25+ people at least 60 days per year. ex. restaurants, churches, DOT rest areas.

Notes
1. Information provided by North Carolina Corporate Geographic Database, retrieved from NC OneMap on September 24, 2019.
2. Wells listed here correspond to public supply wells identified in Figure 5-1.
'-' - No data available

TABLE A 6-1
SUMMARY OF FINDINGS OF GEOLOGIC MAPPING STUDY
Chemours Fayetteville Works, North Carolina

Map ID	Station ID	Latitude	Longitude	Estimated Elevation (ft NAVD 88)	Unit	Outcrop Type	Thickness (ft)	Major Lithology	Minor Lithology	Strike	Dip	Type	Notes
1	1.1*	34.85156	-78.82931	77	Black Creek Confining Unit	Ledge	4	gray/black clay	lignite chips	320	4	Bedding	Ledge of dark gray, moderately plastic clay with lignite chips. No other outcrops were observed downstream.
	1.2*									219	56	Joint	
2	2.1*	34.85152	-78.82936	77	Black Creek Confining Unit	Ledge	3	gray/black clay	NA	50	7	Bedding	Ledge of fat gray clay with local orange discoloration and trace mica. Bedding is locally massive. Contact of sand observed above clay across creek.
	2.2*									50	21	Bedding	
	2.3*									49	24	Bedding	
3	3.1*	34.85151	-78.82937	76	Black Creek Confining Unit	Ledge w/ Waterfall	7	gray/black clay	NA	24	10	Bedding	Ledge/waterfall outcrop of tan, thinly bedded sand observed above dark gray clay. Local surficial weathering.
	3.2*									25	11	Bedding	
	3.3*									128	71	Joint	
4	4.1	34.84989	-78.82850	86	Surficial Aquifer	Bench	1	gray blue sandstone	NA	351	20	Bedding	Bench of quartz-rich, poorly graded, angular clasts, medium- to coarse-grained sand.
5	5.1	34.85442	-78.84142	65	Black Creek Confining Unit	Creek bed	1	gray/black clay	NA	NM	NM	NM	Dark gray, massive clay in creek bed.
6	6.1	34.85444	-78.84168	73	Black Creek Confining Unit	Creek bed	1	gray/black clay	NA	NM	NM	NM	Dark gray, massive clay in creek bed.
7	7.1	34.85437	-78.84213	73	Black Creek Confining Unit	Tree Root Ball	~10	gray/black clay	NA	NM	NM	NM	Outcrop inaccessible but appears to be dark gray, massive clay in creek bed.
8.1	8.1	34.85494	-78.83748	59	Black Creek Confining Unit	Creek bed	1	gray/black clay	NA	NM	NM	NM	Dark gray, massive clay in creek bed.
8.2	8.2	34.85515	-78.83779	55	Black Creek Confining Unit	Creek bed		gray/black clay	NA	NM	NM	NM	Dark gray, massive clay in creek bed.
9	9.1	34.83764	-78.83535	120	Perched Aquifer	Stream Cut Wall	1	sand	clay	81	7	Bedding	Reddish tan, fine- to medium-grained sand with 1 foot thick interbedded dark gray clay layer.
10	10.1	34.83678	-78.83484	105	Perched Clay	Stream Cut Wall	4	clay	NA	52	5	Bedding	Dark gray, thinly bedded clay with trace mica. First clay exposure since last station.
11	11.1	34.83559	-78.83350	90	Perched Clay	Stream Cut Wall	1.5	clay	NA	42	7	Bedding	Light gray (top 6 inches) and dark gray, fat clay. Lithology is similar to station 10.1 and 11.1.

TABLE A 6-1
SUMMARY OF FINDINGS OF GEOLOGIC MAPPING STUDY
Chemours Fayetteville Works, North Carolina

Map ID	Station ID	Latitude	Longitude	Estimated Elevation (ft NAVD 88)	Unit	Outcrop Type	Thickness (ft)	Major Lithology	Minor Lithology	Strike	Dip	Type	Notes
12	12.1	34.83540	-78.83321	89	Perched Clay	Stream Cut Wall	3.25	clay	NA	8	8	Bedding	Light gray (top 6 inches) and dark gray, fat clay. Lithology is similar to station 10.1.
13	13.1	34.83465	-78.83266	98	Surficial Aquifer	Stream Cut Wall	6.5	silty clay	NA	0	0	Bedding	Dark gray clay with silt component. Top 6 inches of outcrop is highly oxidized. Burrows observed.
14	14.1**	34.83402	-78.83176	78	Surficial Aquifer	Stream Cut Wall	5	organic rich silt	NA	0	0	Bedding	Dark black, lignite-rich silt with trace clay.
	14.2**						1.5	claystone	NA	NM	NM	NM	Interlayered dark and light gray clay. Station was observed across stream from station 14.1, approximately 15 to 20 feet below elevation of 14.1.
15	15.1	34.83339	-78.83075	77	Surficial Aquifer	Stream Cut Wall	4	sand	clay	NM	NM	NM	White, poorly graded sand with cm- to mm-scale interlayers of black clay.
16	16.1	34.83320	-78.83058	81	Black Creek Confining Unit	Stream Cut Wall	7	clay	sand	19	7	Bedding	Fat dark gray clay with mm- to cm-scale interlayers of sand. First large exposure of clay since 12.1 and 13.1. Appears to begin approximately 30 feet upstream of this station.
17	17.1*	34.83308	-78.83014	82	Black Creek Confining Unit	Stream Cut Wall	17	clay	NA	0	0	Bedding	Dark gray, thinly bedded to massive clay with local oxidized surficial staining.
	17.2*									7	85	Joint	
18	18.1	34.83301	-78.82951	81	Black Creek Confining Unit	Stream Cut Wall	10	clay	NA	0	0	Bedding	Light and dark gray, thinly bedded clay with local surficial staining.
19	19.1	34.83316	-78.82911	81	Black Creek Confining Unit	Stream Cut Wall	2	clay	NA	0	0	Bedding	Dark gray, thinly bedded clay.
20	20.1	34.83264	-78.82603	67	Black Creek Confining Unit	Stream Cut Wall		gray clay	NA	NM	NM	NM	Unable to access outcrop but appears to be dark gray, fat clay.
21	21.1	34.83292	-78.82626	69	Black Creek Confining Unit	Stream Cut Wall		light gray clay	NA	0	0	Bedding	Gray, fat clay and interbedded sand with trace mica and lignite chips. Pieces of petrified wood observed upstream.
22	22.1	34.83335	-78.82749	73	Black Creek Confining Unit	Stream Cut Wall		light gray clay	NA	0	0	Bedding	Light gray clay and interbedded fine-grained, angular sand with abundant lignite chips.
23	23.1*	34.83355	-78.82854	73	Black Creek Confining Unit	Stream Cut Wall	15-20	light to dark gray clay	NA	0	0	Bedding	Light to dark gray clay. Appears to be continuous from station 23.1. Multiple joint sets observed that show surficial weathering and horizontal bedding.
	23.2*									37	82	Joint	
	23.3*									320	89	Joint	

TABLE A 6-1
SUMMARY OF FINDINGS OF GEOLOGIC MAPPING STUDY
Chemours Fayetteville Works, North Carolina

Map ID	Station ID	Latitude	Longitude	Estimated Elevation (ft NAVD 88)	Unit	Outcrop Type	Thickness (ft)	Major Lithology	Minor Lithology	Strike	Dip	Type	Notes
24	24.1	34.83299	-78.82963	82	Black Creek Confining Unit	Stream Cut Wall		dark gray clay	NA	0	0	Bedding	Dark clay and interbedded fine-grained sand.
25	25.1	34.83689	-78.82464	61	Black Creek Confining Unit	NR	2	clay	NA	239	11	Bedding	Dark gray, thinly bedded clay. Identified as Seep D-D1 in Seep Investigation.
26	26.1	34.84158	-78.82854	99	Perched Clay	Waterfall	2	clay	NA	210	10	Bedding	Dark gray with orange surficial staining, thinly bedded to massive clay. First observed outcrop of clay in seep B.
27	27.1	34.84175	-78.82720	81	Black Creek Confining Unit	Ledge	2.5	clay	NA	NM	NM	NM	Gray, massive, fat clay. Large petrified boulder observed.
28	28.1*	34.84184	-78.82665	75	Black Creek Confining Unit	Waterfall	10	clay	NA	238	19	Bedding	Waterfall outcrop of dark gray, thinly bedded clay and interbedded fine-grained sand.
	28.2*									115	23	Bedding	
	28.3*									265	87	Joint	
29	29.1	34.84415	-78.82675	67	Black Creek Confining Unit	NR	2	clay	NA	224	9	Bedding	Dark gray, massive, lean clay, with iron-oxide surficial staining and small 1cm-scale interbedded sand laminations. First exposure observed on seep A. Seep A-6, A-1
30	30.1	34.84442	-78.82971	147	Perched Aquifer	NR		unconsolidated sand	clay	NM	NM	NM	Tan brown, fine- to medium-grained, unconsolidated sand. Identified as Seep A-7-B1 in Seep Investigation.
31	31.1	34.84424	-78.82683	68	Black Creek Confining Unit	NR	1		NA	0	0	Bedding	Dark gray clay with horizontal bedding. Identified as Seep A8 in Seep Investigation.
32	32.1	34.84505	-78.82794	99	Surficial Aquifer	NR	1	clayey sand	NA	NM	NM	NM	Red-brown, massive clayey sand with nodules of claystone and siltstone in dry creek bed.
33	33.1	34.84519	-78.82806	103	Surficial Aquifer	NR	4	sand	NA	NM	NM	NM	Red-brown, moist, fine- to coarse-grained sand with gravel sized quartz grains. Identified as Seep A-10.
34	34.1	34.84543	-78.82876	125	Perched Clay	NR	2-3	clay	NA	87	8	Bedding	Red-brown and orange, moist clay with interlayers of medium-grained sand.
35	35.1	34.84575	-78.82959	136	Perched Clay	NR	1	clay	sand	269	8		Reddish gray, clay overlying orange, medium- to coarse grained, hematite-rich sand and interbedded clay.
36	36.1	34.84860	-78.82790	62	Black Creek Confining Unit	NR	4	petrified wood	NA	NM	NM	NM	4 foot in diameter, petrified tree trunk and dark red to gray, massive fat clay. Identified as Seep A-5.

TABLE A 6-1
SUMMARY OF FINDINGS OF GEOLOGIC MAPPING STUDY
Chemours Fayetteville Works, North Carolina

Map ID	Station ID	Latitude	Longitude	Estimated Elevation (ft NAVD 88)	Unit	Outcrop Type	Thickness (ft)	Major Lithology	Minor Lithology	Strike	Dip	Type	Notes
37	37.1	34.84860	-78.82799	65	Black Creek Confining Unit	NR	0.5	clay	NA	NM	NM	NM	Dark red to gray, massive, fat clay.
38	38.1	32.84858	-78.82819	72	Black Creek Confining Unit	NR	6-7	clay	NA	NM	NM	NM	Dark to light gray, intricately layer/interbedded clay and fine- to medium-grained sand.
39	39.1	34.85524	-78.83652	53	Black Creek Confining Unit	NR	10	clay	NA	352	46	Joint	Light to dark gray clay with cm-scale, fine-grained sand lenses throughout with local lignite layers. Outcrop is approximately 100 feet in length.
40	40.1	34.85582	-78.83624	54	Black Creek Confining Unit	NR	3.5	clay	NA	0	0	Bedding	Light to dark gray clay with cm-scale, fine-grained sand lenses throughout with local lignite layers. Outcrop is approximately 70 feet in length.
41	41.1	34.85572	-78.83624	53	Black Creek Confining Unit	NR	10	clay	NA	0	0		Light to dark gray clay with cm-scale, fine-grained sand lenses throughout with local lignite layers. Outcrop is approximately 50 feet in length.

Notes:
1. * indicates multiple station ID's at the same outcrop.
2. ** indicates station locations at different outcrops but within the same vicinity.
3. Latitude and longitude were measured by Parson's field staff using Arc Collector in conjuction with the Garmin Glow GPS.
4. Elevations were estimated from 2018 USGS topographic map.
5. ft above MSL - feet above mean sea level.
6. Strikes and dips were measured using a Brunton compass.
7. Seep ID's are referenced from Geosyntec 2019, *Seeps and Creeks Investigation Report*. Chemours Fayetteville Works. 26 August 2019.
8. Soil classification are based off of Unified Soil Classification System

ft - feet
NAVD 88 - North American Vertical Datum of 1988
NA - not applicable
NM - not measured
NR - not recorded

TABLE A 6-2
BLACK CREEK AQUIFER HPT/EC AND SITE BORING LOCATIONS
Chemours Fayetteville Works, North Carolina

Location	Northing (ft NAD83)	Easting (ft NAD83)	Ground Surface Elevation (ft NAVD88)	Total depth (ft bgs)	Location notes
HP-1	400,542.77	2,051,769.54	53	45	co-located with PIW-1 soil boring
HP-2	399,790.41	2,050,646.37	142	62	co-located with BCA-01
HP-3	399,855.35	2,052,002.66	51	36	
HP-4	399,557.56	2,052,156.19	49	33	co-located with LTW-01
HP-5	399,072.61	2,052,255.15	49	41	
HP-6	398,840.96	2,052,354.26	48	47	co-located with LTW-02
HP-7	398,622.53	2,051,900.10	76	13.5	
HP-8	398,122.18	2,052,551.75	49	39	co-located with LTW-03, PIW-6 soil boring
HP-9	397,291.74	2,052,580.52	48	47	co-located with LTW-04
HP-10	396,797.17	2,052,590.10	45	44	co-located with PIW-7 soil boring
HP-11	396,461.16	2,052,738.02	48	48	co-located with LTW-05
HP-12	396,160.77	2,052,239.55	77	55	co-located with PIW-9D
HP-13	395,108.74	2,052,293.91	74	52	co-located with PIW-10 soil boring
HP-14	397,002.02	2,052,566.93	46	45	
HP-15	396,640.14	2,052,695.99	45	48	
HP-16	395,745.63	2,052,301.19	70	50	
HP-17	398,518.90	2,051,952.48	72	38	co-located with PIW-5S and PW-10
HP-18	398,293.08	2,052,261.92	46	44	
HP-19	397,889.29	2,052,569.27	50	47	
HP-20	398,154.53	2,052,324.27	47	45	
HP-21	398,820.85	2,052,095.97	48	46	
HP-22	398,965.01	2,052,327.94	50	37	
HP-23	399,254.49	2,052,205.62	50	35	
HP-24	399,707.38	2,052,092.32	50	32	co-located with PIW-3 soil boring
HP-25	400,010.14	2,051,444.05	90	44	
HP-26	400,478.43	2,051,814.36	55	44	
HP-27	399,929.02	2,051,252.78	92	44	co-located with PIW-2 soil boring
HP-28	399,842.95	2,050,933.40	118	42	
HP-29	395,470.22	2,052,350.89	70	45	
HP-30	395,945.14	2,052,345.55	69	43	
HP-32	396,411.92	2,052,674.49	44	45	co-located with PIW-8 soil boring
PIW-1 Soil Boring	400,540.61	2,051,792.59	50.78	42.5	
PIW-2 Soil Boring	399,922.75	2,051,317.64	98.16	79	
PIW-3 Soil Boring	399,711.75	2,052,088.80	50.51	30	
PIW-4 Soil Boring	398,817.36	2,052,102.82	50.37	40	
PIW-5 Soil Boring	398,520.38	2,051,951.26	72.68	45	
PIW-6 Soil Boring	398,118.14	2,052,540.57	49.85	40	
PIW-7 Soil Boring	396,787.00	2,052,589.49	45.81	50	
PIW-8 Soil Boring	396,403.38	2,052,682.02	45.92	40	
PIW-9 Soil Boring	396,148.11	2,052,251.10	76.80	49	
PIW-10 Soil Boring	395,104.67	2,052,297.04	73.32	59	

Notes:

1. Locations for HPT borings (HP-1 through HP-32) were not surveyed and are approximate. PIW-soil boring locations reported correspond to surveyed co-ordinates for a shallow well location where a shallow and a deep well were co-located. PIW-well locations are provided in Table 5.
2. Ground surface elevations for HPT borings are estimated from LIDAR ground surface elevations. LIDAR ground surface elevation from 20-Foot DEM Elevation Service collected by NC Floodplain Mapping Program and processed by NC DOT - GIS Unit.Service URL:https://services.nconemap.gov/secure/rest/services/Elevation/DEM20ft_DEM/ImageServer last accessed 6-19-2019 23:24
3. Ground surface elevations for PIW-soil borings correspond to surveyed co-ordinates for a shallow well location where a shallow and a deep well were co-located. PIW-well ground surface elevations are provided in Table 6-3.
4. LIDAR estimated ground surface elevations underestimate surveyed ground surface elevations by 0.4 - 1.0 feet.

ft bgs - feet below ground surface
ft - feet
NAD 83 - North America Datum 1983
NAVD 88 - North American Vertical Datum of 1988

TABLE A 6-3
WELL CONSTRUCTION DETAILS
Chemours Fayetteville Works, North Carolina

Area	Well ID	Northing (ft, NAD83)	Easting (ft, NAD83)	Installation Date	Casing Construction	Casing Diameter (in)	Well Casing Depth (ft)	Screened Interval (ft)	Filter Pack Interval (ft)	Bentonite Seal Interval (ft)	Grout Interval (ft)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Aquifer	Sampled Between Jun 1, 2019 and Sept. 20, 2019?
Onsite	BCA-01	399,780.06	2,050,662.22	11/20/2017	PVC	2	101.0	91 to 101	88 to 101	83 to 88	0 to 83	143.26	146.3	Black Creek Aquifer	Yes
Onsite	BCA-02	396,242.32	2,051,062.21	11/16/2017	PVC	2	102.0	92 to 102	89 to 102	84 to 89	0 to 84	145.20	148.42	Black Creek Aquifer	Yes
Onsite	BCA-03R	398,582.23	2,049,522.22	11/7/2018	PVC	2	98.0	88 to 98	85.1 to 98	98to 108/82.5to85.1	0 to 82.5	148.15	150.82	Black Creek Aquifer	Yes
Onsite	BCA-04	395,877.67	2,047,823.11	11/28/2017	PVC	2	104.0	94 to 104	91 to 104	84 to 91	0 to 84	147.07	150.24	Black Creek Aquifer	Yes
Onsite	FTA-01	397,907.50	2,049,373.61	11/14/2002	PVC	2	22.0	12.0-22.0	10.0-22.0	8.0-10.0	0.0-8.0	147.20	150.63	Perched Zone	Yes
Onsite	FTA-02	397,786.43	2,049,206.27	11/13/2002	PVC	2	12.0-22.0	11.5-21.5	9.5-21.5	7.5-21.5	0.0-7.5	NM	150.28	Perched Zone	Yes
Onsite	FTA-03	397,767.09	2,049,313.86	11/13/2002	PVC	2	22.0	12.0-22.0	10.0-22.0	8.0-10.0	0.0-8.0	147.58	151.08	Perched Zone	Yes
Onsite	INSITU-01	401,658.20	2,046,077.31	12/13/2005	PVC	3/4	17.0	7.0-17.0	7.0-17.0	NA	0.0-7.0	115.99	118.2	Surficial Aquifer	Yes
Onsite	INSITU-02	401,863.46	2,049,136.62	12/13/2005	PVC	3/4	17.0	7.0-17.0	7.0-17.0	NA	0.0-7.0	110.71	113.12	Surficial Aquifer	--
Onsite	LTW-01	399,566.17	2,052,149.95	1/16/2006	PVC	2	26.0	11.0-26.0	9.0-26.0	6.0-9.0	0.0-6.0	51.22	53.83	Floodplain Deposits	Yes
Onsite	LTW-02	398,848.36	2,052,354.37	1/16/2006	PVC	2	38.0	28.0-38.0	25.8-38.0	23.5-25.8	0.0-23.5	50.03	52.48	Black Creek Aquifer	Yes
Onsite	LTW-03	398,115.15	2,052,557.52	1/5/2006	PVC	2	30.0	15.0-30.0	13.0-30.0	11.0-13.0	0.0-11.0	50.33	52.91	Floodplain Deposits	Yes
Onsite	LTW-04	397,280.24	2,052,583.60	12/22/2005	PVC	2	27.0	12.0-27.0	9.5-27.0	7.5-9.5	0.0-7.5	49.34	51.86	Floodplain Deposits	Yes
Onsite	LTW-05	396,430.68	2,052,738.06	12/21/2005	PVC	2	44.0	29.0-44.0	27.0-44.0	25.0-27.0	0.0-25.0	49.29	52.01	Black Creek Aquifer	Yes
Onsite	MW-1S	397,080.31	2,049,120.73	2/28/1972	Stainless Steel	4	32.3	21.0-24.0	NA	NA	NA	149.13	149.93	Perched Zone	Yes
Onsite	MW-2S	396,934.75	2,049,321.85	2/30/72	Stainless Steel	4	29.3	19.0-23.0	NA	NA	NA	149.70	149.91	Perched Zone	Yes
Onsite	MW-7S	397,444.52	2,049,809.73	7/21/1983	Stainless Steel	2	15.6	NA	NA	NA	NA	NM	147.47	Perched Zone	Yes
Onsite	MW-8S	397,096.48	2,049,867.77	7/23/1983	Stainless Steel	2	14.9	NA	NA	NA	NA	NM	146.48	Perched Zone	--
Onsite	MW-9S	396,760.16	2,049,734.30	11/3/1983	PVC	2	22.5	17.5-22.5	15.0-22.5	14.0-15.0	0.0-14.0	151.77	154.39	Perched Zone	Yes
Onsite	MW-11	396,544.40	2,049,051.06	5/31/2005	PVC	2	21.5	11.5-21.5	9.3-21.5	7.3-9.3	0.0-7.3	145.44	148.53	Perched Zone	--
Onsite	MW-12S	397,253.60	2,049,273.89	11/1/1983	PVC	2	22.5	17.5-22.5	15.5-22.5	14.5-15.5	0.0-14.5	149.89	152.06	Perched Zone	Yes
Onsite	MW-13D	397,119.02	2,049,821.12	3/20/2013	PVC	2	67.0	57 to 67	54 to 67	50 to 54	0 to 50	145.77	148.65	Surficial Aquifer	Yes
Onsite	MW-14D	396,974.49	2,049,074.56	3/21/2013	PVC	2	72.0	62 to 72	60 to 72	53.5 to 60	0 to 53.5	146.48	149.73	Surficial Aquifer	Yes
Onsite	MW-15DRR	398,580.71	2,049,511.75	11/8/2018	PVC	2	62.5	52.5 to 62.5	49 to 62.5	44 to 49	0 to 44	148.05	150.92	Surficial Aquifer	Yes
Onsite	MW-16D	398,493.70	2,048,402.84	4/2/2013	PVC	2	82.0	72 to 82	69 to 82	82 to 87 / 65 to 69	0 to 65	145.84	148.41	Surficial Aquifer	Yes
Onsite	MW-17D	398,401.74	2,047,366.50	4/3/2013	PVC	2	67.0	57 to 67	54 to 70	70 to 77 / 51 to 54	0 to 51	145.80	146.117	Surficial Aquifer	Yes
Onsite	MW-18D	400,947.38	2,046,574.72	11/17/2017	PVC	2	60.0	50 to 60	47 to 60	40 to 47	0 to 40	104.81	107.57	Surficial Aquifer	Yes
Onsite	MW-19D	401,151.33	2,048,272.99	11/18/2017	PVC	2	56.0	46 to 56	43 to 56	38 to 43	0 to 38	136.30	139.55	Surficial Aquifer	Yes
Onsite	MW-20D	400,791.28	2,048,733.91	11/18/2017	PVC	2	75.0	65 to 75	62 to 73	58 to 62	0 to 58	133.97	137.18	Surficial Aquifer	Yes
Onsite	MW-21D	399,501.70	2,047,074.96	11/22/2017	PVC	2	82.0	72 to 82	68 to 82	62 to 68	0 to 62	148.05	151.384	Surficial Aquifer	Yes
Onsite	MW-22D	398,518.18	2,048,362.68	12/1/2017	PVC	6	72.0	52 to 72	49 to 72	43 to 49	0 to 49	146.57	149.06	Surficial Aquifer	Yes
Onsite	MW-23	396,237.61	2,051,063.25	7/26/2018	PVC	2	14.5	9.5 to 14.5	7.5 14.5	4 to 7.5	0 to 4	145.17	148.34	Perched Zone	Yes
Onsite	MW-24	397,303.94	2,048,767.69	7/26/2018	PVC	2	23.8	18.8 to 23.8	16 to 23.8	14 to 16	0 to 14	147.11	150.31	Perched Zone	Yes
Onsite	MW-25	396,753.37	2,050,989.82	10/23/2018	PVC	2	17.0	12 to 17	9 to 20	7 to 9	0 to 7	145.00	147.59	Perched Zone	Yes
Onsite	MW-26	396,265.18	2,051,484.67	10/22/2018	PVC	2	10.0	5 to 10	4 to 15	2 to 4	0 to 2	144.90	147.7	Perched Zone	--
Onsite	MW-27	396,010.33	2,051,472.00	10/22/2018	PVC	2	15.0	10 to 15	8 to 20	6 to 8	0 to 6	144.39	146.83	Perched Zone	Yes
Onsite	MW-28	395,719.79	2,051,165.93	10/22/2018	PVC	2	14.0	9 to 14	7 to 15	5 to 7	0 to 5	141.52	144.7	Perched Zone	Yes
Onsite	MW-30	397,340.79	2,050,776.09	10/23/2018	PVC	2	15.0	10 to 15	8 to 20	6 to 8	0 to 6	144.95	147.67	Perched Zone	Yes
Onsite	MW-31	396,390.50	2,049,622.88	4/17/2019	PVC	2	22.0	17-22	14-17	12-14	0-12	145.48	147.699	Perched Zone	Yes
Onsite	MW-32	396,359.58	2,049,651.79	4/16/2019	PVC	2	18.5	13-18.5	10-18.5	8-10	0-8	144.63	147.106	Perched Zone	Yes
Onsite	MW-33	396,337.51	2,049,678.56	4/16/2019	PVC	2	17.0	12-17	10-17	8-10	0-8	144.28	146.82	Perched Zone	Yes
Onsite	MW-34	396,352.90	2,049,619.09	4/17/2019	PVC	2	22.0	17-22	14-22	12-14	0-12	145.17	147.972	Perched Zone	Yes
Onsite	MW-35	396,332.94	2,049,631.16	4/16/2019	PVC	2	19.0	14-19	12-19	10-12	0-10	145.03	147.541	Perched Zone	Yes
Onsite	MW-36	396,320.09	2,049,651.17	4/16/2019	PVC	2	17.0	12-17	10-17	8-10	0-8	144.68	147.889	Perched Zone	Yes
Onsite	NAF-01	398,349.77	2,050,338.81	12/5/2002	PVC	2	15.0	5.0-15.0	4.0-15.0	2.0-4.0	0.0-2.0	146.61	149.66	Perched Zone	Yes
Onsite	NAF-02	398,662.80	2,050,640.86	12/4/2002	Stainless Steel	2	15.0	5.0-15.0	4.0-15.0	2.0-4.0	0.0-2.0	147.05	150.31	Perched Zone	Yes

TABLE A 6-3
WELL CONSTRUCTION DETAILS
Chemours Fayetteville Works, North Carolina

Area	Well ID	Northing (ft, NAD83)	Easting (ft, NAD83)	Installation Date	Casing Construction	Casing Diameter (in)	Well Casing Depth (ft)	Screened Interval (ft)	Filter Pack Interval (ft)	Bentonite Seal Interval (ft)	Grout Interval (ft)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Aquifer	Sampled Between Jun 1, 2019 and Sept. 20, 2019?
Onsite	NAF-03	398,580.65	2,050,755.43	12/4/2002	Stainless Steel	2	15.0	5.0-15.0	4.0-15.0	2.0-4.0	0.0-2.0	147.38	150.44	Perched Zone	Yes
Onsite	NAF-04	398,447.00	2,050,718.95	12/4/2002	Stainless Steel	2	15.0	5.0-15.0	4.0-15.0	2.0-4.0	0.0-2.0	147.90	148.1	Perched Zone	Yes
Onsite	NAF-05A	398,641.22	2,051,024.85	10/10/2005	Stainless Steel	2	NA	NA	NA	NA	NA	NA	NA	Perched Zone	--
Onsite	NAF-05B	398,660.23	2,051,021.81	10/12/2005	Stainless Steel	2	NA	NA	NA	NA	NA	NA	NA	Surficial Aquifer	--
Onsite	NAF-06	398,809.66	2,050,911.91	5/26/2005	Stainless Steel	2	12.75	2.75-12.75	2.0-12.75	0.25-2.0	0.0-0.25	143.17	146.43	Perched Zone	Yes
Onsite	NAF-07	398,899.33	2,050,616.50	5/20/2005	Stainless Steel	2	15.5	5.5-15.5	3.0-15.5	1.0-3.0	0.0-1.0	146.73	149.69	Perched Zone	Yes
Onsite	NAF-08A	398,097.99	2,050,886.62	6/1/2005	Stainless Steel	2	15.0	5.0-15.0	3.0-15.0	1.0-3.0	0.0-1.0	145.54	148.82	Perched Zone	Yes
Onsite	NAF-08B	398,095.64	2,050,879.94	6/1/2005	Stainless Steel	2	53.5	43.5-53.5	41.5-53.5	39.5-41.5	0.0-39.5	145.62	148.86	Surficial Aquifer	--
Onsite	NAF-09	397,711.09	2,050,806.52	5/19/2005	PVC	2	17.0	7.0-17.0	5.0-17.0	3.0-5.0	0.0-3.0	146.52	149.29	Perched Zone	Yes
Onsite	NAF-10	397,612.57	2,050,423.15	5/19/2005	PVC	2	18.25	8.25-18.25	6.25-18.25	4.25-6.25	0.0-4.25	146.94	150	Perched Zone	Yes
Onsite	NAF-11A	398,909.29	2,050,999.92	6/3/2005	PVC	2	7.5	2.5-7.5	2.0-7.5	0.5-2.0	0.0-0.5	137.55	140.59	Perched Zone	--
Onsite	NAF-11B	398,911.13	2,050,995.88	6/5/2005	PVC	2	43.5	33.5-43.5	31.5-43.5	26.5-31.5	0.0-26.5	137.55	140.74	Surficial Aquifer	--
Onsite	NAF-12	398,270.56	2,050,777.49	3/28/2013	PVC	2	23	18 to 23	16.2 to 23	13.1 to 16.2	0 to 13.1	NA	145.932	Perched Zone	Yes
Onsite	NAF-13	398,370.49	2,051,260.72	10/16/2018	PVC	2	16	11 to 16	8.5 to 20	5 to 8.5	0 to 5	149.64	152.29	Perched Zone	--
Onsite	PIW-1D	400,547.77	2,051,801.42	7/2/2019	PVC	2	29.5	24.5 to 29.5	23 - 30	20 - 23	0 - 20	49.53	52.33	Surficial Aquifer	Yes
Onsite	PIW-1S	400,540.61	2,051,792.59	6/28/2019	PVC	2	17.8	7.8 - 17.8	6 - 18	2 - 6	0 - 2	50.78	54.198	Floodplain Deposits	--
Onsite	PIW-2D	399,922.75	2,051,317.64	8/15/2019	PVC	2	50	40 - 50	38 - 50	36 - 38	0 - 36	98.16	100.85	Black Creek Aquifer	Yes
Onsite	PIW-3D	399,711.75	2,052,088.80	7/2/2019	PVC	2	24	19 - 24	17 - 24.8	15 - 17	0 - 15	50.51	53.315	Black Creek Aquifer	Yes
Onsite	PIW-4D	398,817.36	2,052,102.82	7/1/2019	PVC	2	37.3	32.3 - 37.3	30 - 38	28 - 30	0 - 28	50.37	53.041	Black Creek Aquifer	Yes
Onsite	PIW-5S	398,520.38	2,051,951.26	7/9/2019	PVC	2	19.8	9.8 - 19.8	8 - 20.2	6 - 8	0 - 6	72.68	75.188	Surficial Aquifer	Yes
Onsite	PIW-6S	398,118.14	2,052,540.57	6/28/2019	PVC	2	28	18 - 28	16 - 28.2	14 - 16	0 - 14	49.85	53.359	Floodplain Deposits	Yes
Onsite	PIW-7D	396,787.69	2,052,595.37	6/26/2019	PVC	2	34	29 - 34	26 - 34.2	22 - 26	0 - 22	45.78	48.597	Black Creek Aquifer	Yes
Onsite	PIW-7S	396,787.00	2,052,589.49	6/25/2019	PVC	2	17	7 - 17	5.2 - 18	2.2 - 5.2	0 - 2.2	45.81	48.392	Floodplain Deposits	Yes
Onsite	PIW-8D	396,403.38	2,052,682.02	6/26/2019	PVC	2	40.5	35.5 - 45.5	32 - 40.5	29 - 32	0 - 29	45.92	48.518	Black Creek Aquifer	Yes
Onsite	PIW-9D	396,155.97	2,052,250.91	7/2/2019	PVC	2	45	40 - 45	38.1 - 49	35.5 - 38.1	0 - 35.5	76.75	79.529	Black Creek Aquifer	Yes
Onsite	PIW-9S	396,148.11	2,052,251.10	6/26/2019	PVC	2	29.8	24.8 - 29.8	23 - 30	19 - 23	0 - 19	76.80	79.532	Surficial Aquifer	Yes
Onsite	PIW-10DR	395,093.99	2,052,297.30	8/16/2019	PVC	2	60.5	53 - 58	50.7 - 60.5	48 - 50.7	0 - 48	73.29	75.91	Black Creek Aquifer	Yes
Onsite	PIW-10S	395,104.67	2,052,297.04	6/25/2019	PVC	2	17	7 - 17	5.3 - 17.3	3 - 5.3	0 - 3	73.30	76.451	Surficial Aquifer	Yes
Onsite	PW-01	399,064.80	2,049,654.30	7/30/2019	PVC	2	21	11 - 21	9 - 21	7 - 9	0 - 7	146.63	149.547	Perched Zone	Yes
Onsite	PW-02	399,779.06	2,050,649.47	7/30/2019	PVC	2	60	50 - 60	47.5 - 60	45.5 - 47.5	0 - 45.5	143.76	146.431	Surficial Aquifer	Yes
Onsite	PW-03	397,339.81	2,050,765.32	7/23/2019	PVC	2	45	35 - 45	33 - 45	31 - 33	0 - 31	144.97	147.967	Surficial Aquifer	Yes
Onsite	PW-04	394,659.55	2,050,940.66	7/24/2019	PVC	2	27	17 - 27	15 - 27	13 - 15	0 - 13	94.74	97.751	Surficial Aquifer	Yes
Onsite	PW-05	395,873.10	2,047,812.93	7/26/2019	PVC	2	75	65 - 75	63 - 75	60.5 - 63	0 - 60.5	147.16	150.336	Surficial Aquifer	Yes
Onsite	PW-06	392,868.00	2,045,288.77	7/29/2019	PVC	2	29	19 - 29	17 - 29	15 - 17	0 - 15	144.76	147.691	Surficial Aquifer	Yes
Onsite	PW-07	390,847.71	2,049,258.26	7/24/2019	PVC	2	38	28 - 38	26 - 38	23.5 - 26	0 - 23.5	144.90	148.16	Surficial Aquifer	Yes
Onsite	PW-09	401,997.39	2,048,980.54	8/12/2019	PVC	2	54	44 - 54	42 - 54	40 - 42	0 - 40	74.76	72.03	Black Creek Aquifer	Yes
Onsite	PW-10R	398,516.12	2,051,936.59	8/9/2019	PVC	2	67	57 - 67	55 - 67	52 - 55	0 - 52	73.28	75.9	Black Creek Aquifer	Yes
Onsite	PW-11	394,354.36	2,052,226.72	7/25/2019	PVC	2	64	53 - 63	51 - 64	49 - 51	0 - 49	70.19	73.263	Black Creek Aquifer	Yes
Onsite	PW-12	399,500.45	2,047,063.51	8/1/2019	PVC	2	119	109 - 119	106 - 119	103 - 106	0 - 103	148.05	150.61	Black Creek Aquifer	Yes
Onsite	PW-13	397,584.26	2,048,029.18	8/23/2019	PVC	2	130	120 - 130	118 - 130	115 - 118	0 - 115	146.52	149.36	Black Creek Aquifer	Yes
Onsite	PW-14	397,325.65	2,050,766.36	8/27/2019	PVC	2	146	136 - 146	134 - 146	131 - 134	0 - 131	145.13	147.97	Black Creek Aquifer	Yes
Onsite	PW-15R	398,900.88	2,051,011.75	8/14/2019	PVC	2	120	110 - 120	108 - 120	105 - 108	0 - 105	133.33	136.14	Black Creek Aquifer	Yes
Onsite	PZ-11	398,646.25	2,049,820.94	3/12/2004	PVC	3/4	20	15-20	15-20	12-15	NA	148.48	151.03	Perched Zone	Yes
Onsite	PZ-12	399,094.96	2,048,981.78	3/12/2004	PVC	3/4	20.1	15.1-20.1	15.1-20.1	12.1-15.1	NA	148.31	150.91	Perched Zone	Yes
Onsite	PZ-13	397,708.07	2,050,991.73	3/17/2004	PVC	3/4	12.1	7.1-12.1	7.1-12.1	4.1-7.1	NA	146.69	149.2	Perched Zone	Yes
Onsite	PZ-14	397,589.92	2,050,618.27	3/11/2004	PVC	3/4	14	9.0-14.0	9.0-14.0	6.0-9.0	NA	146.75	148.38	Perched Zone	Yes

TABLE A 6-3
WELL CONSTRUCTION DETAILS
Chemours Fayetteville Works, North Carolina

Area	Well ID	Northing (ft, NAD83)	Easting (ft, NAD83)	Installation Date	Casing Construction	Casing Diameter (in)	Well Casing Depth (ft)	Screened Interval (ft)	Filter Pack Interval (ft)	Bentonite Seal Interval (ft)	Grout Interval (ft)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Aquifer	Sampled Between Jun 1, 2019 and Sept. 20, 2019?
Onsite	PZ-15	396,805.09	2,050,112.02	3/11/2004	PVC	3/4	15.2	10.2-15.2	10.2-15.2	7.2-10.2	NA	146.50	148.79	Perched Zone	Yes
Onsite	PZ-17	396,614.82	2,048,872.69	3/10/2004	PVC	3/4	26.1	21.1-26.1	21.1-26.1	18.1-21.1	NA	145.00	150.08	Perched Zone	--
Onsite	PZ-19R	397,998.66	2,049,919.52	4/25/2019	PVC	2	21	16-21	14-21	10-14	0-10	147.62	150.046	Perched Zone	Yes
Onsite	PZ-20R	398,185.81	2,049,784.60	4/25/2019	PVC	2	20	15-20	12-20	8.5-12	0-8.5	148.15	151.29	Perched Zone	Yes
Onsite	PZ-21R	398,445.16	2,049,883.13	4/29/2019	PVC	2	22	17-22	13-22	9-13	0-9	147.77	150.674	Perched Zone	Yes
Onsite	PZ-22	397,272.80	2,052,584.04	1/11/2006	PVC	3/4	46	36.0-46.0	34.0-46.0	32.0-34.0	0.0-32.0	49.03	51.81	Black Creek Aquifer	Yes
Onsite	PZ-24	396,117.94	2,050,744.07	10/18/2018	PVC	1	16	11 to 16	10 to 20	8 to 10	0 to 8	144.76	147.53	Perched Zone	Yes
Onsite	PZ-25	396,753.94	2,050,991.05	10/18/2018	PVC	1	19	14 to 19	12.5 to 40	8 to 12.5	0 to 8	145.00	147.59	Perched Zone	--
Onsite	PZ-26	396,059.78	2,050,382.35	10/18/2018	PVC	1	16	11 to 16	10 to 20	7 to 10	0 to 7	144.90	147.7	Perched Zone	Yes
Onsite	PZ-27	395,922.11	2,050,376.76	10/19/2018	PVC	1	17	12 to 17	11 to 20	8 to 11	0 to 8	145.02	147.17	Perched Zone	Yes
Onsite	PZ-28	396,304.55	2,049,933.79	10/18/2018	PVC	1	18	13 to 18	11 to 20	9 to 11	0 to 9	145.60	148.64	Perched Zone	Yes
Onsite	PZ-29	396,371.49	2,049,768.94	10/18/2018	PVC	1	18	13 to 18	10.5 to 20	8.5 to 10.5	0 to 8.5	145.07	147.74	Perched Zone	Yes
Onsite	PZ-31	396,428.73	2,049,594.36	4/23/2019	PVC	2	19	14-19	12-19	8.5-12	0-8.5	144.91	147.999	Perched Zone	Yes
Onsite	PZ-32	396,418.47	2,049,713.79	4/23/2019	PVC	2	18	13-18	12.5-18	10-12.5	0-10	145.36	148.471	Perched Zone	Yes
Onsite	PZ-33	396,308.92	2,049,707.66	4/15/2019	PVC	2	17.5	12.5-17.5	10-17.5	8-10	0-8	143.94	146.715	Perched Zone	Yes
Onsite	PZ-34	396,292.05	2,049,595.04	4/15/2019	PVC	2	13.5	13.5-18.5	11-18.5	9-11	0-9	144.94	147.695	Perched Zone	Yes
Onsite	PZ-35	398,232.64	2,050,020.49	4/29/2019	PVC	2	18	13-18	11-18	8-11	0-8	147.91	150.43	Perched Zone	Yes
Onsite	SMW-01	395,295.75	2,043,679.19	1/23/2003	PVC	2	15	5.0-15.0	4.0-15.0	2.0-4.0	0.0-2.0	NA	136.81	Surficial Aquifer	Yes
Onsite	SMW-02	399,983.75	2,050,654.77	1/23/2003	PVC	2	20	5.0-20.0	4.0-20.0	2.0-4.0	0.0-2.0	144.74	147.93	Perched Zone	Yes
Onsite	SMW-02B	399,983.48	2,050,660.48	10/6/2005	PVC	2	53	43.0-53.0	40.0-53.0	35.0-40.0	0.0-35.0	142.28	145.211	Surficial Aquifer	--
Onsite	SMW-03	399,778.25	2,049,445.96	6/4/2005	Stainless Steel	2	20	10.0-20.0	8.0-20.0	6.0-8.0	0.0-6.0	148.43	151.094	Perched Zone	--
Onsite	SMW-03B	399,785.75	2,049,421.54	4/4/2013	PVC	2	82	72 to 82	69 to 82	65.5 to 69	0 to 65.5	147.00	150.43	Black Creek Aquifer	Yes
Onsite	SMW-04A	399,668.71	2,048,387.57	6/4/2005	Stainless Steel	2	34.5	19.5-34.5	17.5-34.5	15.5-17.5	0.0-15.5	145.46	148.09	Perched Zone	--
Onsite	SMW-04B	399,667.12	2,048,390.30	10/5/2005	PVC	2	53	43.0-53.0	41.0-53.0	34.0-41.0	0.0-34.0	145.18	148.372	Surficial Aquifer	Yes
Onsite	SMW-05	399,334.07	2,048,557.33	10/10/2005	PVC	2	20	10.0-20.0	8.0-20.0	6.0-8.0	0.0-6.0	144.17	148.099	Perched Zone	--
Onsite	SMW-05P	399,338.61	2,048,559.26	2/21/2006	PVC	3/4	60	45.0-60.0	43.0-60.0	41.0-43.0	0.0-41.0	146.06	149.32	Surficial Aquifer	Yes
Onsite	SMW-06	399,172.35	2,048,759.48	10/10/2005	PVC	2	22	12.0-22.0	10.0-22.0	8.0-10.0	0.0-8.0	147.92	150.97	Perched Zone	--
Onsite	SMW-06B	399,144.74	2,048,764.94	4/3/2013	PVC	2	68	58 to 68	54.5 to 68	68 to 72 / 51 to 54.5	0 to 51	146.86	150.32	Surficial Aquifer	--
Onsite	SMW-07	398,932.91	2,048,611.16	10/10/2005	PVC	2	23	13.0-23.0	11.0-23.0	8.5-11.0	0.0-8.5	147.74	147.64	Perched Zone	Yes
Onsite	SMW-08	399,064.97	2,048,468.78	10/11/2005	PVC	2	31	21.0-31.0	18.5-21.0	14.5-18.5	0.0-14.5	147.93	151.017	Perched Zone	--
Onsite	SMW-08B	399,058.33	2,048,478.84	3/28/2013	PVC	2	68	58 to 68	56 to 68	52.5 to 56	0 to 52.5	146.75	148.81	Surficial Aquifer	Yes
Onsite	SMW-09	401,076.89	2,050,017.41	4/8/2013	PVC	2	62	52 to 62	49.5 to 62	62 to 67 / 45 to 49.5	0 to 45	138.16	141.43	Surficial Aquifer	Yes
Onsite	SMW-10	402,307.31	2,047,923.84	3/25/2013	PVC	2	49	39 to 49	36.5 to 49	33 to 36.5	0 to 33	73.09	76.26	Surficial Aquifer	Yes
Onsite	SMW-11	401,996.15	2,048,975.38	3/26/2013	PVC	2	23	13 to 23	11 to 23	8 to 11	0 to 8	69.04	71.95	Surficial Aquifer	Yes
Onsite	SMW-12	401,314.20	2,051,007.22	3/27/2013	PVC	2	98	88 to 98	86 to 98	83 to 86	0 to 83	113.723	118.22	Black Creek Aquifer	Yes
Offsite	Bladen-1S	387,516.28	2,050,234.78	8/14/2019	PVC	2	10.25	5 - 10	3 - 10.25	1 - 3	0 - 1	81.57	81.31	Surficial Aquifer	--
Offsite	Bladen-1D	387,519.56	2,050,248.83	8/13/2019	PVC	2	47.25	37 - 47	34 - 47.25	32 - 34	0 - 32	81.72	81.52	Black Creek Aquifer	Yes
Offsite	Bladen-2S	368,818.78	2,042,884.35	8/16/2019	PVC	2	20.6	10 - 20	8 - 20.6	43,624	0 - 6	143.01	142.62	Surficial Aquifer	Yes
Offsite	Bladen-2D	368,824.41	2,042,879.78	8/15/2019	PVC	2	75.25	70 - 75	67 - 75.25	66 - 67	0 - 66	143.11	142.85	Black Creek Aquifer	Yes
Offsite	Bladen-3S	396,859.62	2,059,014.36	8/20/2019	PVC	2	15.25	5 - 15	3 - 15.25	1 - 3	0 - 1	79.40	78.84	Surficial Aquifer	Yes
Offsite	Bladen-3D	396,854.29	2,059,007.99	8/19/2019	PVC	2	44	33.75 - 43.75	32 - 44	29 - 32	0 - 29	79.59	79.09	Black Creek Aquifer	Yes
Offsite	Bladen-4S	363,260.51	2,087,638.88	8/21/2019	PVC	2	15	4.75 - 14.75	43,539.00	1.5 - 3	0 - 1.5	64.65	64.26	Surficial Aquifer	Yes
Offsite	Bladen-4D	363,252.43	2,087,638.29	8/21/2019	PVC	2	52	46.75 - 51.75	44.5 - 51.75	41.5 - 44.5	0 - 41.5	64.67	64.23	Black Creek Aquifer	Yes
Offsite	Cumberland-1S	431,464.38	2,011,074.92	9/13/2019	PVC	2	25	15 - 25	13 - 25	11 - 13	0 - 13	179.70	179.41	Surficial Aquifer	Yes
Offsite	Cumberland-1D	431,457.26	2,011,072.83	9/12/2019	PVC	2	50	40 - 50	38 - 50	36 - 38	0 - 36	179.58	179.18	Black Creek Aquifer	Yes
Offsite	Cumberland-2S	449,976.40	2,074,022.29	9/12/2019	PVC	2	17	7 - 17	5 - 17	3 - 5	0 - 3	133.87	133.61	Surficial Aquifer	Yes

TABLE A 6-3
WELL CONSTRUCTION DETAILS
Chemours Fayetteville Works, North Carolina

Area	Well ID	Northing (ft, NAD83)	Easting (ft, NAD83)	Installation Date	Casing Construction	Casing Diameter (in)	Well Casing Depth (ft)	Screened Interval (ft)	Filter Pack Interval (ft)	Bentonite Seal Interval (ft)	Grout Interval (ft)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Aquifer	Sampled Between Jun 1, 2019 and Sept. 20, 2019?
Offsite	Cumberland-2D	449,984.84	2,074,020.57	9/12/2019	PVC	2	57	47 - 57	43 - 57	43 - 45	0 - 43	134.06	133.79	Black Creek Aquifer	Yes
Offsite	Cumberland-3S	423,251.95	2,060,414.73	9/12/2019	PVC	2	14	9 - 14	7 - 14	5 - 7	0 - 5	83.87	83.62	Surficial Aquifer	Yes
Offsite	Cumberland-3D	423,245.42	2,060,410.59	9/11/2019	PVC	2	27	22 - 27	20 - 27	18 - 20	0 - 18	83.59	83.34	Black Creek Aquifer	Yes
Offsite	Cumberland-4S	413,083.94	2,078,256.96	9/11/2019	PVC	2	20	10 - 20	8 - 20	6 - 8	0 - 6	124.15	123.93	Surficial Aquifer	Yes
Offsite	Cumberland-4D	413,093.08	2,078,251.38	9/10/2019	PVC	2	67	57 - 67	55 - 67	53 - 55	0 - 53	124.09	123.79	Black Creek Aquifer	Yes
Offsite	Cumberland-5S	405,623.27	2,138,233.37	9/11/2019	PVC	2	24	14 - 24	12 - 24	10 - 12	0 - 10	107.00	106.65	Surficial Aquifer	Yes
Offsite	Cumberland-5D	405,619.17	2,138,238.59	9/11/2019	PVC	2	57	52 - 57	49 - 57	47 - 49	0 - 49	107.02	106.67	Black Creek Aquifer	Yes
Offsite	Robeson-1S	381,405.51	2,020,158.29	9/9/2019	PVC	2	27	17 - 27	15 - 27	13 - 15	0 - 13	161.51	161.22	Surficial Aquifer	Yes
Offsite	Robeson-1D	381,413.60	2,020,160.37	9/4/2019	PVC	2	53	42.75 - 52.75	41 - 53	39 - 41	0 - 39	161.23	160.93	Black Creek Aquifer	Yes

Notes:
1. Survey completed by Freeland-Clinkscales & Associates of NC.
2. Northing and Easting provided in feet, State Plane Coordinates for North Carolina (zone 3200) in North American Datum of 1983.
3. Ground surface and top of casing elevation reported in North American Vertical Datum of 1988.

ft NAD83 - feet, State Plane Coordinate System North American Datum 1983
ft NAVD88 - feet, North American Vertical Datum of 1988
in - inches
ft - feet
ft bgs - feet below ground surface
NA - not available
NM - not measured

TABLE A 6-4
SUMMARY OF ESTIMATED HYDRAULIC CONDUCTIVITY
Chemours Fayetteville Works, North Carolina

Hydrogeologic Zone	Geometric Mean Hydraulic Conductivity, K		
	K (cm/s)	K (ft/d)	Wells Included
Floodplain Deposits	3.23×10^{-4}	0.9	LTW-01 [4], LTW-03 [4]
Black Creek Aquifer	9.89×10^{-3}	28.0	SMW-12, LTW-02, BCA-02, BCA-04, BCA-01
Partially Screened across Floodplain and Black Creek Aquifer	1.86×10^{-3}	5.3	LTW-05

Notes:

1. Detailed slug test results, AQTESOLV inputs, displacement time curves and AQTESOLV outputs used to summarize results are included in Appendix E.

2. Geometric means calculated from both pneumatic and manual slug test results. No method bias was observed. Pneumatic slug tests were performed only at locations where well screen was fully saturated. Manual slug tests were performed at all other well locations.

3. LTW-04 results not included in calculating geometric mean because initial displacement for all tests at this well suspected to display oscillatory response likely due to inertial effects from water table across well screen.

4. Initial displacement response curve suspected to display double-straight line effect due to drainage from filter pack. Analytical solutions are fit to the second-straight line displacement curve representing post-filter drainage, aquifer response.

cm/s - centimeters per second

ft/d - indicates feet per day

K - hydraulic conductivity

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
Chemours Fayetteville Works, North Carolina

Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
1	8/7/2019	854	2051927.95	400688.81	24	28.48	28.5	28.54	0.06	25.25
2	8/6/2019	1633	2051867.71	400672.67	2.23	29.29	29.27	29.35	0.06	NM
3	8/9/2019	1508	2051864.40	400648.92	2.9	27.86	27.89	28	0.14	NM
4	8/6/2019	1626	2051869.61	400603.98	3.86	29.14	29.05	29.16	0.02	NM
5	8/7/2019	905	2051941.74	400569.49	22.73	28.49	28.45	28.54	0.05	25.25
6	8/6/2019	1620	2051902.25	400479.86	3.17	29.11	29.07	29.14	0.03	NM
7	8/7/2019	913	2051981.06	400450.18	20.92	28.62	28.48	28.58	0.04	21.65
8	8/6/2019	1612	2051926.53	400382.75	5.39	29.28	29.21	29.38	0.1	NM
9	8/7/2019	934	2052053.27	400327.71	24.25	28.51	28.47	28.56	0.05	24.35
10	8/6/2019	1605	2051943.54	400270.55	1.72	29.47	29.44	29.53	0.06	NM
11	8/7/2019	957	2052010.65	400241.65	22.3	28.56	28.53	28.62	0.06	NM
12	8/5/2019	1510	2052011.79	400163.91	8.5	28.78	28.73	28.82	0.04	NM
13	8/7/2019	1018	2052131.34	400119.72	24.5	28.63	28.56	28.6	0.03	NM
14	8/5/2019	1522	2052069.26	400062.48	11.5	28.86	28.8	28.89	0.03	NM
15	8/7/2019	1139	2052126.57	399998.68	23	28.81	28.63	28.79	0.02	27.35
16	8/5/2019	1531	2052117.71	399938.94	9.1	29.25	29.2	29.27	0.02	NM
17	8/7/2019	1154	2052179.91	399886.97	21.4	28.68	28.61	28.72	0.04	26.35
18	8/5/2019	1548	2052170.35	399811.83	2.4	29.26	29.24	29.41	0.15	NM
19	8/7/2019	1204	2052214.08	399811.78	22.1	28.7	28.63	28.74	0.04	26.35
20	8/5/2019	1646	2052225.50	399737.20	19.6	28.8	28.71	28.77	0.03	NM
21	8/7/2019	1211	2052256.29	399658.05	22.9	28.8	28.74	28.81	0.01	25.35
22	8/5/2019	1653	2052243.48	399624.04	9.13	29.08	29.1	29.17	0.09	NM

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
Chemours Fayetteville Works, North Carolina

Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
23	8/7/2019	1222	2052276.72	399585.31	20.4	28.77	28.72	28.78	0.01	22.35
24	8/6/2019	821	2052276.14	399534.91	13.78	28.89	28.68	28.75	0.14	22.35
25	8/7/2019	1240	2052346.66	399454.93	24.22	28.76	28.68	28.77	0.01	25.35
26	8/6/2019	828	2052334.43	399409.60	12.13	28.73	28.7	28.8	0.07	NM
27	8/7/2019	1251	2052379.34	399359.14	20.15	28.81	28.75	28.82	0.01	25.95
28	8/6/2019	835	2052381.06	399286.39	5.57	28.74	28.72	28.78	0.04	NM
29	8/7/2019	1309	2052414.92	399258.49	20.86	28.76	28.72	28.81	0.05	25.85
30	8/6/2019	841	2052405.69	399207.92	8.53	28.81	28.76	28.84	0.03	NM
31	8/7/2019	1349	2052453.15	399143.02	20.3	28.94	29.04	29.07	0.13	25.35
32	8/6/2019	847	2052470.92	399026.46	9.19	28.73	28.7	28.79	0.06	NM
33	8/7/2019	1400	2052508.45	399016.99	20.1	28.96	28.92	28.98	0.02	22.95
34	8/6/2019	855	2052504.53	398929.07	11.2	28.83	28.76	28.79	0.04	NM
35	8/7/2019	1421	2052532.25	398900.49	20.2	28.93	28.89	28.97	0.04	24.5
36	8/6/2019	901	2052523.62	398840.41	6.42	28.65	28.61	28.75	0.1	23.35
37	8/7/2019	1421	2052555.07	398784.04	17.5	28.96	28.92	28.99	0.03	23.35
38	8/6/219	910	2052558.47	398724.32	6.8	28.88	28.94	28.82	0.06	NM
39	8/8/2019	920	2052599.58	398716.13	22.5	28.95	28.94	29.01	0.06	21.75
40	8/7/2019	1430	2052600.19	398696.34	22	28.78	28.9	28.98	0.2	21.65
41	8/8/2019	913	2052638.07	398694.60	20.7	28.94	28.94	29.01	0.07	22.5
42	8/8/2019	901	2052574.46	398657.64	11.42	28.98	29.04	29.05	0.07	24.15
43	8/8/2019	907	2052625.36	398651.56	21.7	28.9	28.95	29.01	0.11	24.15
44	8/6/2019	923	2052576.31	398616.16	1.95	27.9	25.88	24.45	3.45	NM

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
Chemours Fayetteville Works, North Carolina

Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
45	8/6/2019	933	2052565.83	398609.02	0.82	24.27	20.5	20.62	3.65	NM
46	8/8/2019	925	2052634.22	398591.59	20.1	28.96	28.95	29.02	0.06	23.5
47	8/7/2019	1740	2052675.76	398528.44	19.6	29.23	29.34	29.38	0.15	23.35
48	8/8/2019	932	2052616.72	398516.34	15.7	28.97	28.97	29.02	0.05	22.75
49	8/6/2019	943	2052618.96	398477.23	11.66	28.55	28.29	28.24	0.31	NM
50	8/8/2019	943	2052643.92	398455.50	18.1	28.97	28.97	29.02	0.05	NM
51	8/8/2019	950	2052789.66	398448.77	19.3	28.95	28.93	29	0.05	23.55
52	8/7/2109	1735	2052718.88	398401.65	19.2	29.32	29.31	29.37	0.05	22.45
53	8/6/2019	949	2052605.12	398373.59	1.83	28.89	28.85	28.82	0.07	NM
54	8/8/2019	957	2052795.08	398347.82	20.8	28.93	28.94	29	0.07	21.65
55	8/7/2019	1728	2052737.13	398280.66	19.6	29.28	29.34	29.39	0.11	21.85
56	8/6/2019	956	2052638.10	398253.94	1.78	29.1	29.01	29.04	0.06	NM
57	8/8/2019	1004	2052837.14	398217.07	20.12	28.93	28.93	29.01	0.08	22.35
58	8/7/2019	1723	2052696.54	398176.49	18.6	29.28	29.28	29.32	0.04	21.45
59	8/6/2019	1004	2052654.44	398152.47	2.23	29.21	29.06	29.11	0.1	NM
60	8/8/2019	1010	2052815.45	398097.21	19.32	28.84	28.91	28.98	0.14	21.15
61	8/7/2019	1717	2052760.08	398064.46	18	29.26	29.19	29.29	0.03	21.45
62	8/6/2019	1016	2052680.39	397995.58	1.37	29.23	29.07	29.19	0.04	NM
63	8/8/2019	1017	2052854.15	397975.47	20.8	28.91	28.94	29	0.09	22.15
64	8/7/2019	1708	2052741.75	397951.82	20.2	29.17	29.24	29.27	0.1	20.65
65	8/6/2019	1030	2052705.78	397868.41	2.31	29	28.92	29.11	0.11	NM
66	8/7/219	1700	2052743.54	397845.88	20.1	29.29	29.31	29.31	0.02	21.85

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
Chemours Fayetteville Works, North Carolina

Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
67	8/8/2019	1026	2052812.81	397827.23	18.22	28.89	28.99	29.05	0.16	22.65
68	8/6/2019	1039	2052729.84	397753.40	2.16	28.94	28.98	29.07	0.13	NM
69	8/7/2019	1657	2052779.36	397700.72	19.7	29.22	29.22	29.26	0.04	21.15
70	8-Aug	1035	2052721.38	397674.71	0.96	29.29	29.26	29.35	0.06	21.15
71	8/6/2019	1047	2052732.24	397632.42	1.17	28.96	29.07	29.18	0.22	NM
72	8/8/2019	1114	2052787.90	397628.95	21	29.02	28.99	29.04	0.02	22.65
73	8/8/2019	1132	2052727.29	397588.40	0.8	27.87	24.41	22.62	5.25	NM
74	8-Aug	1148	2052728.34	397586.32	0.9	29.61	29.46	29.39	0.22	NM
75	8/7/2019	1644	2052783.78	397572.91	20.9	29.08	29.21	29.12	0.04	23.5
76	8/8/2019	1119	2052773.98	397546.72	11.53	28.99	28.99	29.08	0.09	NM
77	8/6/2019	1332	2052754.05	397515.07	1.67	29.94	29.86	29.92	0.02	NM
78	8/7/2019	1633	2052789.22	397426.72	19.1	29.1	29.1	29.16	0.06	22.85
79	8/6/2019	1551	2052783.81	397365.65	7.84	29.26	29.18	29.3	0.04	NM
80	8/7/2019	1624	2052809.44	397289.03	22.6	29.18	29.16	29.17	0.01	23.95
81	8/6/2019	1444	2052780.80	397242.45	2.8	29.52	29.51	29.5	0.02	NM
82	8/7/2019	1616	2052817.47	397160.43	19	29.11	29.07	29.14	0.03	23.35
83	8/6/2019	1436	2052794.61	397107.69	1.32	29.53	29.54	29.6	0.07	NM
84	8/7/2019	1610	2052819.35	397061.10	13.1	29.1	29.08	29.13	0.03	22.35
85	8/6/2019	1429	2052815.50	396971.19	2.56	29.51	29.49	29.58	0.07	NM
86	8/7/2019	1603	2052836.75	396947.33	13.1	29.1	29.05	29.11	0.01	23.35
87	8/6/2019	1417	2052835.73	396883.71	4.7	29.17	29.07	29.28	0.11	NM
88	8/7/2019	1557	2052861.87	396840.00	20.79	28.98	28.94	29.02	0.04	24.5

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
Chemours Fayetteville Works, North Carolina

Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
89	8/6/2019	1410	2052842.43	396784.31	5.71	29.27	29.16	29.28	0.01	NM
90	8/7/2019	1546	2052877.37	396741.11	23.27	28.96	28.92	29	0.04	23.95
91	8/6/2019	1403	2052853.13	396695.94	2.93	29.45	29.37	29.32	0.13	NM
92	8/7/2019	1535	2052880.52	396668.16	18.22	28.94	28.88	28.96	0.02	23.15
93	8/8/2019	1222	2052851.42	396630.08	1.34	29.72	29.7	29.75	0.03	NM
94	8/6/2019	1353	2052864.10	396606.77	4.42	29.68	29.48	29.37	0.31	NM
95	8/8/2019	1226	2052878.64	396604.32	12.42	29.21	29.22	29.22	0.01	NM
96	8/8/2019	1233	2052866.77	396581.15	1.22	29.61	29.59	29.65	0.04	NM
97	8/9/2019	14.57	2052891.16	396543.37	11.1	29.7	29.77	29.6	0.1	NM
98	8/8/2019	1245	2052916.85	396487.21	20.2	29.13	29.12	29.17	0.04	22.35
99	8/6/2019	1135	2052873.66	396478.63	1.8	30.08	29.83	29.47	0.61	NM
100	8/9/2019	1444	2052904.82	396390.59	14.75	29.53	29.66	29.69	0.16	22.45
101	8/6/2019	1144	2052892.59	396301.20	1.72	30.07	30.05	30.08	0.01	NM
102	8/9/2019	1431	2052917.29	396277.98	13.2	29.64	29.54	29.71	0.07	23.95
103	8/6/2019	1154	2052897.30	396173.56	1.68	29.8	29.74	29.66	0.14	NM
104	8/9/2019	1418	2052914.55	396158.69	6.05	29.63	29.62	29.35	0.28	23.35
105	8/8/2019	1328	2052902.18	396070.43	0.84	29.52	26.4	25.63	3.89	NM
106	8/8/2019	1346	2052906.18	396065.65	1.15	30	29.89	29.68	0.32	22.85
107	8/6/2019	1201	2052914.75	396065.35	3.78	29.3	29.25	29.29	0.01	NM
108	8/9/2019	1358	2052930.71	396018.09	11.94	29.38	29.5	29.51	0.13	21.85

TABLE A 6-5
SURVEY OF TEMPERATURE DIFFERENTIALS IN CAPE FEAR RIVER
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Location	Date	Time of Readings	X-coordinate (ft)	Y-coordinate (ft)	Water Depth (ft)	6 Inches Above Sediment Surface (ºC)	3 inches Above Sediment Surface (ºC)	1 inch into Sediment Surface (ºC)	Temperature Difference between Porewater and 6 inches Above Sediment Surface (ºC)	Depth of Thalweg along Transect (ft)
109	8/6/2019	1210	2052918.36	395957.91	3.88	29.28	29.19	29.3	0.02	NM
110	8/9/2019	1344	2052944.33	395923.99	12.69	29.63	29.57	29.46	0.17	22.35
111	8/6/2019	1220	2052926.60	395820.42	2	29.79	29.75	29.63	0.16	NM
112	8/9/2019	1336	2052947.62	395791.01	12.16	29.57	29.46	29.6	0.03	21.65
113	8/9/2019	1324	2052954.26	395729.04	13.55	29.31	29.29	29.33	0.02	21.95
114	8/6/2019	1229	2052927.99	395721.82	1.95	29.71	29.62	29.63	0.08	NM
115	8/9/2019	1305	2052920.02	395663.84	0.72	23.96	22.97	22.75	1.21	NM
116	8/8/2019	1410	2052925.27	395656.87	0.7	22.16	22.13	22.2	0.04	NM
117	8/9/2019	1240	2052961.84	395617.96	14.61	29.16	29.24	29.19	0.03	21.65
118	8/6/2019	1240	2052932.01	395590.98	4.84	29.23	29.11	29.15	0.08	NM
119	8/6/2019	1247	2052938.48	395491.44	2.5	29.42	29.3	29.37	0.05	NM

Notes:
ºC - celsius
ft - feet
NM - not measured
Green shading Indicates temperature differential > 0.5 ºC

TABLE A 7-1
ONSITE SOIL CHARACTERISTICS
Chemours Fayetteville Works, North Carolina

Sample ID	Well ID	Top (ft bgs)	Bottom (ft bgs)	Visual Description	USCS Classification	pH (s.u.)	Fraction Organic Carbon (g/g)	Specific Gravity	Liquid Limit of Soils	Plastic Limit of Soils	Plasticity Index (PI)	Percent Moisture (%)	Grain Size Distribution (%)				Porosity Calculation (%)	In Place Density (g/cc)	Void Ratio
													Clay	Silt	Sand	Gravel			
PIW-1-24-25-20190627	PIW-1	24	25	Fine to medium grained sand	SP-SC	4.6	0.0021	2.66	--	--	NP	17	9	2	89	0	35.6	1.7	0.6
PIW-1-41.5-42.5-20190627	PIW-1	41.5	42.5	Clay	CH	--	0.0053	2.66	57	27	30	17	67	16	17	0	47.9	1.4	0.9
PIW-2D-Soil-24-25-20190815	PIW-2D	24	25	Clay	CH	4.2	0.0220	2.68	92	35	57	39	45	27	28	0	59	1.1	1.4
PIW-2D-Soil-46-47-20190815	PIW-2D	46	47	Silty sand	SP-SM	4	0.0034	2.66	--	--	NP	27	4	7	89	0	41.5	1.6	0.7
PIW-3-14-15-20190702	PIW-3	14	15	Sand with fine to medium gravel	GP	--	0.0012	2.65	--	--	NP	14	3	2	46	49	18.7	2.2	0.2
PIW-3-24-25-20190702	PIW-3	24	25	Gravelly sand with clay	SP-SC	--	0.0100	2.63	--	--	NP	17	5	1	93	0	37	1.7	0.6
PIW-4-13-14-20190701	PIW-4	13	14	Sandy clay	CH	--	0.0120	2.66	102	43	59	27	48	30	22	0	54.1	1.2	1.2
PIW-4-33-34.2-20190701	PIW-4	33	34.2	Fine to medium grained sand	SP-SM	3.9	0.0024	2.67	--	--	NP	13	2	5	93	0	26.1	2.0	0.4
PIW-6-19-20-20190628	PIW-6	19	20	Clay with silt	CL	--	0.0011	2.69	48	29	19	23	38	39	24	0	40.5	1.6	0.7
PIW-7-24-25-20190625	PIW-7	24	25	Fine to medium grained sand	SP-SC	4.6	0.0013	2.64	39	18	21	20	12	5	83	0	39.6	1.6	0.7
PIW-7-37-38-20190625	PIW-7	37	38	Fine grained sand and silt	SP-SM	--	0.0016	2.65	--	--	NP	14	3	2	95	0	32	1.8	0.5
PIW-7-44-45-20190625	PIW-7	44	45	Clay	CH	--	0.0015	2.67	61	25	36	20	58	19	23	0	35.9	1.7	0.6
PIW-9-19-20-20190626	PIW-9	19	20	Sand	SP-SC	5.5	0.0006	2.66	--	--	NP	8	5	2	93	0	31.3	1.8	0.5
PIW-10-42-43-20190624	PIW-10	42	43	Clay	CH	--	0.0220	2.67	104	38	66	33	71	18	12	0	52.5	1.3	1.1
PW-01-SOIL-14-15-20190730	PW-01	14	15	Sand with silt	SP	5.6	0.0013	2.68	--	--	NP	24	2	3	95	0	44.7	1.5	0.8
PW-02-SOIL-14-15-20190729	PW-02	14	15	Clayey sand medium grained	SC	5.2	0.0012	2.68	--	--	NP	19	10	4	87	0	--	1.5	--
PW-02-SOIL-16-17-20190729	PW-02	16	17	Silty clay	CH	4.9	0.0012	2.69	89	31	58	20	58	28	14	0	--	1.3	--
PW-02-SOIL-35-36-20190729	PW-02	35	36	Clayey sand	SC	4.7	0.0008	2.71	--	--	NP	13	4	13	83	0	--	1.5	--
PW-03-SOIL-6.5-7-20190723	PW-03	6.5	7	Clayey sand	SC	5.7	0.0031	2.66	29	18	11	9	18	9	73	0	--	1.4	--
PW-03-SOIL-16-17-20190723	PW-03	16	17	Clay	CH	4.7	0.0020	2.71	80	33	47	27	64	14	22	0	--	1.1	--
PW-03-SOIL-43-44-20190723	PW-03	43	44	Silty sand	SM	4.1	0.0033	2.68	--	--	NP	33	10	7	83	0	--	1.4	--
PW-04-SOIL-23-24-20190724	PW-04	23	24	Silty sand	SM	3.1	0.0069	2.69	--	--	NP	16	10	12	78	0	--	1.4	--
PW-04-SOIL-29-29.5-20190724	PW-04	29	29.5	Clay	CH	3.7	0.0360	2.72	67	32	35	23	50	23	28	0	--	1.2	--
PW-05-Soil-12-13-20190726	PW-05	12	13	Clayey sand	SC	6.3	0.0011	2.67	38	23	15	9	18	14	69	0	--	1.5	--
PW-05-Soil-51-52-20190726	PW-05	51	52	Silty clay	CH	4.4	0.0650	2.62	60	31	29	36	54	27	18	0	--	1.2	--
PW-05-Soil-76-77-20190726	PW-05	76	77	Clay	CH	4.7	0.1000	2.66	90	37	53	56	51	42	7	0	--	1.0	--
PW-06-SOIL-16-17-20190726	PW-06	16	17	Sand with silt	SP	5.3	0.0012	2.65	--	--	NP	13	4	4	92	0	--	1.5	--
PW-07-SOIL-14-15-20190724	PW-07	14	15	Sand	SP-SC	5.2 J	<0.0011	2.65	--	--	--	9	5.3	3.2	91.5	0	--	1.6	--
PW-07-SOIL-44-45-20190724	PW-07	44	45	Clay with sand	CH	4.1 J	0.12	2.58	90	42	48	41.8	54.2	20.3	25.5	0	--	1.22	--
PW-09-SOIL-23-24-20190812	PW-09	23	24	Silty sand	CH	4.3	0.025	2.63	75	37	38	32.7	50	35.9	14.1	0	56.1	1.16	1.3
PW-09-SOIL-52-53-20190812	PW-09	52	53	Clayey sand with silt	SP-SM	6.1	0.0034	2.68	--	--	--	24.4	3.2	10.2	85.5	1.1	41.5	1.56	0.7
PW-10-SOIL-59-60-20190808	PW-10*	59	60	Silty clay	SC	5.4	0.0170	2.67	--	--	--	26	27	18	55	0	43.6	1.5	0.8
PW-11-SOIL-16-17-20190725	PW-11	16	17	Sand with silt	SW-SC	4.9	0.0007	2.68	--	--	NP	10	11	6	83	0	--	1.5	--
PW-11-SOIL-61-62-20190725	PW-11	61	62	Sand with silt	SC	4.1	0.0190	2.67	40	19	21	26	13	6	81	0	--	1.5	--
PW-12-SOIL-83-84-20190731	PW-12	83	84	Clay	CH	4.3	0.0370	2.67	93	40	53	27	61	30	9	0	58.2	1.1	1.4
PW-12-SOIL-110-111-20190731	PW-12	110	111	Sand with silt	SP-SC	4.8	0.0110	2.67	--	--	NP	25	6	4	90	0	43.4	1.5	0.8
PW-13-SOIL-25-26-20190821	PW-13	25	26	Sand	SP	5.2	0.0012	2.67	--	--	NP	14	3	4	93	0	45.6	1.5	0.8
PW-13-SOIL-73-74-20190821	PW-13	73	74	Clay	CH	4.5	0.0520	2.66	91	38	53	30	54	38	8	0	58.1	1.1	1.4
PW-13-SOIL-124-125-20190822	PW-13	124	125	Silty Sand	SM	6.8	0.0014	2.66	--	--	NP	18	7	8	85	0	45.3	1.5	0.8
PW-14-SOIL-144-145-20190826	PW-14	144	145	Clayey sand	SC	5.7	0.0028	2.66	--	--	NP	21	3	14	83	0	42.9	1.5	0.8
PW-15-SOIL-17.5-18-20190813	PW-15	17.5	18	Clay	CH	4.0	0.0290	2.63	100	52	48	37	49	48	3	0	65.1	0.9	1.9
PW-15-SOIL-38-39-20190813	PW-15	38	39	Silty sand	SM	4.1	0.0007	2.7	--	--	--	3	7	33	60	0	38.5	1.7	0.6
PW-15-SOIL-55-56-20190813	PW-15	55	56	Clay	CH	4.1	0.0530	2.67	68	33	35	35	54	33	14	0	53.2	1.3	1.1
PW-15-SOIL-112-113-20190813	PW-15	112	113	Silty sand	SM	4.1	0.0051	2.67	--	--	NP	18	7	12	81	0	36.2	1.7	0.6

TABLE A 7-1
ONSITE SOIL CHARACTERISTICS
Chemours Fayetteville Works, North Carolina

Sample ID	Well ID	Top (ft bgs)	Bottom (ft bgs)	Visual Description	USCS Classification	Coefficient of Uniformity (C_u)	Coefficient of Curvature (C_c)	K from Grain Size Geometric Mean (ft/d)	Lithologic Unit
PIW-1-24-25-20190627	PIW-1	24	25	Fine to medium grained sand	SP-SC	8.8	3.2	13.4	Surficial Aquifer
PIW-1-41.5-42.5-20190627	PIW-1	41.5	42.5	Clay	CH	4.1	0.7	0.8	Upper Cape Fear Confining Unit
PIW-2D-Soil-24-25-20190815	PIW-2D	24	25	Clay	CH	5.0	0.8	0.9	Black Creek Confining Unit
PIW-2D-Soil-46-47-20190815	PIW-2D	46	47	Silty sand	SP-SM	8.7	3.1	13.9	Black Creek Aquifer
PIW-3-14-15-20190702	PIW-3	14	15	Sand with fine to medium gravel	GP	52.3	0.2	46.4	Floodplain Deposit
PIW-3-24-25-20190702	PIW-3	24	25	Gravelly sand with clay	SP-SC	2.6	1.5	46.6	Black Creek Aquifer
PIW-4-13-14-20190701	PIW-4	13	14	Sandy clay	CH	4.4	0.7	0.9	Black Creek Confining Unit
PIW-4-33-34.2-20190701	PIW-4	33	34.2	Fine to medium grained sand	SP-SM	4.0	1.4	54.7	Black Creek Aquifer
PIW-6-19-20-20190628	PIW-6	19	20	Clay with silt	CL	4.6	0.8	0.9	Floodplain Deposit
PIW-7-24-25-20190625	PIW-7	24	25	Fine to medium grained sand	SP-SC	8.9	3.5	4.0	Floodplain Deposit
PIW-7-37-38-20190625	PIW-7	37	38	Fine grained sand and silt	SP-SM	3.1	1.2	69.4	Black Creek Aquifer
PIW-7-44-45-20190625	PIW-7	44	45	Clay	CH	4.5	0.8	0.9	Upper Cape Fear Confining Unit
PIW-9-19-20-20190626	PIW-9	19	20	Sand	SP-SC	3.2	1.1	43.5	Surficial Aquifer
PIW-10-42-43-20190624	PIW-10	42	43	Clay	CH	3.7	0.7	0.8	Black Creek Confining Unit
PW-01-SOIL-14-15-20190730	PW-01	14	15	Sand with silt	SP	2.1	1.2	27.4	Perched Zone
PW-02-SOIL-14-15-20190729	PW-02	14	15	Clayey sand medium grained	SC	13.3	5.8	12.0	Perched Zone
PW-02-SOIL-16-17-20190729	PW-02	16	17	Silty clay	CH	3.9	0.7	0.8	Perched Clay
PW-02-SOIL-35-36-20190729	PW-02	35	36	Clayey sand	SC	21.7	7.7	6.1	Surficial Aquifer
PW-03-SOIL-6.5-7-20190723	PW-03	6.5	7	Clayey sand	SC	16.5	1.6	2.7	Perched Zone
PW-03-SOIL-16-17-20190723	PW-03	16	17	Clay	CH	4.4	0.7	0.9	Perched Clay
PW-03-SOIL-43-44-20190723	PW-03	43	44	Silty sand	SM	3.9	1.9	6.6	Surficial Aquifer
PW-04-SOIL-23-24-20190724	PW-04	23	24	Silty sand	SM	6.5	2.6	3.1	Surficial Aquifer
PW-04-SOIL-29-29.5-20190724	PW-04	29	29.5	Clay	CH	4.9	0.8	0.9	Black Creek Confining Unit
PW-05-Soil-12-13-20190726	PW-05	12	13	Clayey sand	SC	25.8	0.6	2.2	Surficial Aquifer
PW-05-Soil-51-52-20190726	PW-05	51	52	Silty clay	CH	4.2	0.7	0.8	Clay Lens in Surficial Aquifer
PW-05-Soil-76-77-20190726	PW-05	76	77	Clay	CH	3.5	0.1	0.8	Black Creek Confining Unit
PW-06-SOIL-16-17-20190726	PW-06	16	17	Sand with silt	SP	4.5	1.7	36.7	Surficial Aquifer
PW-07-SOIL-14-15-20190724	PW-07	14	15	Sand	SP-SC	4.5	1.8	33.6	Surficial Aquifer
PW-07-SOIL-44-45-20190724	PW-07	44	45	Clay with sand	CH	4.7	0.8	0.9	Clay Lens in Surficial Aquifer
PW-09-SOIL-23-24-20190812	PW-09	23	24	Silty sand	CH	3.89	0.73	0.79	Black Creek Confining Unit
PW-09-SOIL-52-53-20190812	PW-09	52	53	Clayey sand with silt	SP-SM	13.7	5.36	12.76	Black Creek Aquifer
PW-10-SOIL-59-60-20190808	PW-10*	59	60	Silty clay	SC	28.9	0.3	1.0	Clay Lens in Black Creek Aquifer
PW-11-SOIL-16-17-20190725	PW-11	16	17	Sand with silt	SW-SC	8.5	2.8	2.7	Surficial Aquifer
PW-11-SOIL-61-62-20190725	PW-11	61	62	Sand with silt	SC	22.1	5.1	5.0	Black Creek Aquifer
PW-12-SOIL-83-84-20190731	PW-12	83	84	Clay	CH	3.6	0.7	0.8	Clay Lens in Black Creek Aquifer
PW-12-SOIL-110-111-20190731	PW-12	110	111	Sand with silt	SP-SC	3.9	1.9	16.7	Black Creek Aquifer
PW-13-SOIL-25-26-20190821	PW-13	25	26	Sand	SP	2.3	1.2	94.9	Surficial Aquifer
PW-13-SOIL-73-74-20190821	PW-13	73	74	Clay	CH	3.5	0.7	0.8	Black Creek Confining Unit
PW-13-SOIL-124-125-20190822	PW-13	124	125	Silty Sand	SM	9.1	3.6	8.6	Black Creek Aquifer
PW-14-SOIL-144-145-20190826	PW-14	144	145	Clayey sand	SC	23.8	4.8	6.0	Black Creek Aquifer
PW-15-SOIL-17.5-18-20190813	PW-15	17.5	18	Clay	CH	3.3	0.7	0.7	Perched Clay
PW-15-SOIL-38-39-20190813	PW-15	38	39	Silty sand	SM	23.8	0.5	1.0	Surficial Aquifer
PW-15-SOIL-55-56-20190813	PW-15	55	56	Clay	CH	3.8	0.7	0.8	Black Creek Confining Unit
PW-15-SOIL-112-113-20190813	PW-15	112	113	Silty sand	SM	20.3	2.9	4.7	Black Creek Aquifer

Notes:

1. * PW-10 was properly abandoned and replaced with PW-10R.
2."USCS Classification" is the Unified Soil Classification System from the standard practice outlined in ASTM D2487-17.
3. Coefficient of Uniformity (C_u) = D_{60} / D_{10}
4. Coefficient of Curvature (C_c) = $(D_{30})^2$ / (D_{60} * D_{10})
5. Hydraulic Conductivity (K) from grain size calculated using HydrogeoSieveXL (Devlin, 2015).
6. Atterberg limits (Liquid Limit and Plastic Limit) are only tested for fine-grained materials.
7. Visual descriptions are transcribed from field logs.
8. USCS classifications are derived from laboratory data.

-- not measured
% - percent
cc - cubic centimeter
CH - fat clay
CL - lean clay
ft bgs - feet below ground surface
ft/d - feet per day
g - gram
NP - no plasticity
SC - clayey sand
SM - silty sand
SP - poorly graded sand
GP - poorly graded gravel
SW - well graded sand
USCS - Unified Soil Classification System

TABLE A 7-2
ONSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	**PW-01**	**PW-01**	**PW-02**	**PW-03**
Field Sample ID	**PW-01-SOIL-14-15-20190730**	**PW-01-SOIL-11-12-20190731**	**PW-02-SOIL-14-15-20190729**	**PW-03-SOIL-6.5-7-20190723**
Sample Date	**7/30/2019**	**7/31/2019**	**7/29/2019**	**7/23/2019**
QA/QC	**--**	**--**	**--**	**--**
Vadose Zome Sample*	**Y**	**Y**	**Y**	**Y**
Depth (ft)	**14-15**	**11-12**	**14-15**	**6.5-7**
SDG	**200-49879-2**	**200-49879-2**	**200-49846-2**	**200-49745-3**
Lab Sample ID	**200-49879-1**	**200-49879-3**	**200-49846-2**	**200-49745-1**
Table 3+ Lab SOP (ng/kg)				
HFPO-DA (EPA Method 537 Mod)	**1,800**	**1,200**	**1,500**	**1,700**
PFMOAA	**1,300**	<1,000	<1,000 UJ	<1,000
PFO2HxA	**1,300**	<1,000	<1,000 UJ	1,290 U
PFO3OA	<1,000	<1,000	<1,000 UJ	<1,000
PFO4DA	<1,000	<1,000	<1,000 UJ	<1,000
PFO5DA	<1,000	<1,000	<1,000	1,160 U
PMPA	<1,000	<1,000	<1,000	2,460 U
PEPA	<1,000	<1,000	<1,000	<1,000
PFESA-BP1	<1,000	<1,000	<1,000	<1,000
PFESA-BP2	<1,000	<1,000	<1,000	<1,000
Byproduct 4	<1,000 UJ	<1,000 R	<1,000 R	<1,000 R
Byproduct 5	<1,000 UJ	<1,000 R	<1,000 R	<1,000 R
Byproduct 6	<1,000	<1,000	<1,000	<1,000
NVHOS	<1,000	<1,000	<1,000	<1,000
EVE Acid	<1,000	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000	<1,000	<1,000 UJ	<1,000
R-EVE	<1,000 UJ	<1,000 R	<1,000 R	<1,000 R
PES	<1,000	<1,000	<1,000	<1,000
PFECA B	<1,000	<1,000	<1,000 UJ	<1,000
PFECA-G	<1,000	<1,000	<1,000 UJ	<1,000
Other PFAS (ng/kg)				
10:2 Fluorotelomer sulfonate	<200	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000	<2,000
ADONA	<210	<210	<210	<210
F-53B Major	<200	<200	<200	<200
F-53B Minor	<200	<200	<200	<200
NaDONA	<210	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200	<200
PFOA	<200	<200	<200	<200
PFOS	<500	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
N-ethylperfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000
N-methyl perfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000

Notes:
1. Associated equipment blank and field blank results reported in Table 7-3.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
J - Analyte detected. Reported value may not be accurate or precise
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-2
ONSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	**PW-05**	**PW-06**	**PW-07**	**PW-07**
Field Sample ID	**PW-05 Soil-12-13-20190726**	**PW-06-SOIL-16-17-20190729**	**DUP1-072419**	**PW-07SOIL-14-15-20190724**
Sample Date	**7/26/2019**	**7/29/2019**	**7/24/2019**	**7/24/2019**
QA/QC	**--**	**--**	**Field Duplicate**	**--**
Vadose Zome Sample*	**Y**	**Y**	**Y**	**Y**
Depth (ft)	**12-13**	**16-17**	**14-15**	**14-15**
SDG	**200-49809-2**	**200-49846-2**	**200-49770-2**	**200-49770-2**
Lab Sample ID	**200-49809-1**	**200-49846-1**	**200-49770-5**	**200-49770-3**
Table 3+ Lab SOP (ng/kg)				
HFPO-DA (EPA Method 537 Mod)	**850**	<250	<250	<250
PFMOAA	<1,000 R	<1,000	<1,000	<1,000
PFO2HxA	<1,000 UJ	<1,000	<1,000	<1,000
PFO3OA	<1,000 UJ	<1,000	<1,000	<1,000
PFO4DA	<1,000 UJ	<1,000	<1,000	<1,000
PFO5DA	<1,000 UJ	<1,000	<1,000	<1,000
PMPA	<1,000 UJ	<1,000	<1,000	<1,000
PEPA	<1,000 UJ	<1,000	<1,000	<1,000
PFESA-BP1	<1,000 UJ	<1,000	<1,000	<1,000
PFESA-BP2	<1,000 UJ	<1,000	<1,000	<1,000
Byproduct 4	<1,000 R	<1,000 R	<1,000 R	<1,000 R
Byproduct 5	<1,000 R	<1,000 R	<1,000 R	<1,000 R
Byproduct 6	<1,000 UJ	<1,000	<1,000	<1,000
NVHOS	<1,000 UJ	<1,000	<1,000	<1,000
EVE Acid	<1,000 UJ	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000 UJ	<1,000	<1,000	<1,000
R-EVE	<1,000 R	<1,000 R	<1,000 R	<1,000 R
PES	<1,000 UJ	<1,000	<1,000	<1,000
PFECA B	<1,000 UJ	<1,000	<1,000	<1,000
PFECA-G	<1,000 UJ	<1,000	<1,000	<1,000
Other PFAS (ng/kg)				
10:2 Fluorotelomer sulfonate	<200 UJ	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000 UJ	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000 UJ	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000 UJ	<2,000	<2,000	<2,000
ADONA	<210	<210	<210	<210
F-53B Major	<200	<200	<200	<200
F-53B Minor	<200	<200	<200	<200
NaDONA	<210	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000 UJ	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000 UJ	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200	<200
PFOA	<200	<200	<200	<200
PFOS	<500 UJ	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
N-ethylperfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000
N-methyl perfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000

Notes:
1. Associated equipment blank and field blank results reported in Table 7-3.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
J - Analyte detected. Reported value may not be accurate or precise
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-2
ONSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	**PW-09**	**PW-09**	**PW-10**	**PW-10**
Field Sample ID	**PW-09-SOIL-10-11-20190812**	**PW-09-SOIL-8.5-9-20190812**	**PW-10-SOIL-3.5-4-20190808**	**PW-10-SOIL-8-8.5-20190808**
Sample Date	**8/12/2019**	**8/12/2019**	**8/8/2019**	**8/8/2019**
QA/QC	**--**	**--**	**--**	**--**
Vadose Zome Sample*	**Y**	**Y**	**Y**	**Y**
Depth (ft)	**10-11**	**8.5-9**	**3.5-4**	**8-8.5**
SDG	**200-50062-2**	**200-50062-2**	**200-50014-2**	**200-50014-2**
Lab Sample ID	**200-50062-1**	**200-50062-2**	**200-50014-1**	**200-50014-2**
Table 3+ Lab SOP (ng/kg)				
HFPO-DA (EPA Method 537 Mod)	<250	<250	**570**	**28,000**
PFMOAA	<1,000 UJ	<1,000 UJ	<1,000	**7,300**
PFO2HxA	<1,000 UJ	<1,000 UJ	<1,000	10,000 J
PFO3OA	<1,000 UJ	<1,000 UJ	<1,000	**4,000**
PFO4DA	<1,000 UJ	<1,000 UJ	<1,000	**4,700**
PFO5DA	<1,000 UJ	<1,000 UJ	1,260 U	**5,200**
PMPA	<1,000 UJ	<1,000 UJ	<1,000	27,000 J
PEPA	<1,000 UJ	<1,000 UJ	<1,000	13,000 J
PFESA-BP1	<1,000 UJ	<1,000 UJ	<1,000	<1,000
PFESA-BP2	<1,000 UJ	<1,000 UJ	<1,000	**1,400**
Byproduct 4	<1,000 R	<1,000 R	<1,000 R	<1,000 R
Byproduct 5	<1,000 R	<1,000 R	<1,000 R	<1,000 R
Byproduct 6	<1,000 UJ	<1,000 UJ	<1,000	<1,000
NVHOS	<1,000 UJ	<1,000 UJ	<1,000	<1,000
EVE Acid	<1,000 UJ	<1,000 UJ	<1,000	<1,000
Hydro-EVE Acid	<1,000 UJ	<1,000 UJ	<1,000	**1,500**
R-EVE	<1,000 R	<1,000 R	<1,000 R	<1,000 R
PES	<1,000 UJ	<1,000 UJ	<1,000	<1,000
PFECA B	<1,000 UJ	<1,000 UJ	<1,000	<1,000
PFECA-G	<1,000 UJ	<1,000 UJ	<1,000	<1,000
Other PFAS (ng/kg)				
10:2 Fluorotelomer sulfonate	<200	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000	<2,000
ADONA	<210	<210	<210	<210
F-53B Major	<200	<200	<200	<200
F-53B Minor	<200	<200	<200	<200
NaDONA	<210	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200	**310**
Perfluorotetradecanoic Acid	<200	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200	<200
PFOA	<200	<200	<200	<200
PFOS	<500	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<1,000	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<1,000	<1,000
N-ethylperfluoro-1-octanesulfonamide	--	--	<1,000	<1,000
N-methyl perfluoro-1-octanesulfonamide	--	--	<1,000	<1,000

Notes:
1. Associated equipment blank and field blank results reported in Table 7-3.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
J - Analyte detected. Reported value may not be accurate or precise
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-2
ONSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	**PW-11**	**PW-12**	**PW-12**	**PW-13**
Field Sample ID	**PW-11-SOIL-16-17-20190725**	**PW-12-SOIL-36-37-20190731**	**PW-12-SOIL-45-46-20190731**	**PW-13-Soil-25-26-20190821**
Sample Date	**7/25/2019**	**7/31/2019**	**7/31/2019**	**8/21/2019**
QA/QC	**--**	**--**	**--**	**--**
Vadose Zome Sample*	**Y**	**N**	**N**	**Y**
Depth (ft)	**16-17**	**36-37**	**45-46**	**25-26**
SDG	**200-49801-2**	**200-49879-2**	**200-49879-2**	**200-50221-2**
Lab Sample ID	**200-49801-1**	**200-49879-4**	**200-49879-5**	**200-50221-1**
Table 3+ Lab SOP (ng/kg)				
HFPO-DA (EPA Method 537 Mod)	**620**	**830**	<250	<250
PFMOAA	<1,000	<1,000	<1,000	<1,000
PFO2HxA	<1,000	<1,000	<1,000	<1,000
PFO3OA	<1,000	<1,000	<1,000	<1,000
PFO4DA	<1,000	<1,000	<1,000	<1,000
PFO5DA	<1,000	<1,000	<1,000	<1,000
PMPA	<1,000	<1,000	<1,000	<1,000
PEPA	<1,000	<1,000	<1,000	<1,000
PFESA-BP1	<1,000	<1,000	<1,000	<1,000
PFESA-BP2	<1,000	<1,000	<1,000	<1,000
Byproduct 4	<1,000 R	<1,000 R	<1,000 UJ	<1,000
Byproduct 5	<1,000 R	<1,000 R	<1,000 UJ	<1,000
Byproduct 6	<1,000	<1,000	<1,000	<1,000
NVHOS	<1,000	<1,000	<1,000	<1,000
EVE Acid	<1,000	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000	<1,000	<1,000	<1,000
R-EVE	<1,000 R	<1,000 R	<1,000 R	<1,000
PES	<1,000	<1,000	<1,000	<1,000
PFECA B	<1,000	<1,000	<1,000	<1,000
PFECA-G	<1,000	<1,000	<1,000	<1,000
Other PFAS (ng/kg)				
10:2 Fluorotelomer sulfonate	<200	<200	<200 UJ	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000	<2,000
ADONA	<210	<210	<210	<210
F-53B Major	<200	<200	<200	<200
F-53B Minor	<200	<200	<200	<200
NaDONA	<210	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200 UJ	<200
Perfluorododecanoic Acid	<200	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200	<200
PFOA	<200	<200	<200	<200
PFOS	<500	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<1,000	<1,000	<1,000	<1,000
N-ethylperfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000
N-methyl perfluoro-1-octanesulfonamide	<1,000	<1,000	<1,000	<1,000

Notes:
1. Associated equipment blank and field blank results reported in Table 7-3.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
J - Analyte detected. Reported value may not be accurate or precise
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-2
ONSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	**PW-15**
Field Sample ID	**PW-15-SOIL-38-39-20190813**
Sample Date	**8/13/2019**
QA/QC	**--**
Vadose Zome Sample*	**N**
Depth (ft)	**38-39**
SDG	**200-50083-2**
Lab Sample ID	**200-50083-2**
Table 3+ Lab SOP (ng/kg)	
HFPO-DA (EPA Method 537 Mod)	<250
PFMOAA	<1,000
PFO2HxA	<1,000
PFO3OA	<1,000
PFO4DA	<1,000
PFO5DA	<1,000
PMPA	<1,000
PEPA	<1,000
PFESA-BP1	<1,000
PFESA-BP2	<1,000
Byproduct 4	<1,000
Byproduct 5	<1,000
Byproduct 6	<1,000
NVHOS	<1,000
EVE Acid	<1,000
Hydro-EVE Acid	<1,000
R-EVE	<1,000
PES	<1,000
PFECA B	<1,000
PFECA-G	<1,000
Other PFAS (ng/kg)	
10:2 Fluorotelomer sulfonate	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000
6:2 Fluorotelomer sulfonate	<2,000
ADONA	<210
F-53B Major	<200
F-53B Minor	<200
NaDONA	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000
Perfluorobutane Sulfonic Acid	<200
Perfluorobutanoic Acid	<200
Perfluorodecane Sulfonic Acid	<200
Perfluorodecanoic Acid	<200
Perfluorododecane sulfonic acid (PFDoS)	<200
Perfluorododecanoic Acid	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200
Perfluoroheptanoic Acid	<200
Perfluorohexadecanoic acid (PFHxDA)	<200
Perfluorohexane Sulfonic Acid	<200
Perfluorohexanoic Acid	<200
Perfluorononanesulfonic acid	<200
Perfluorononanoic Acid	<200
Perfluorooctadecanoic acid	<200
Perfluorooctane Sulfonamide	<200
Perfluoropentane sulfonic acid (PFPeS)	<200
Perfluoropentanoic Acid	<200
Perfluorotetradecanoic Acid	<200
Perfluorotridecanoic Acid	<200
Perfluoroundecanoic Acid	<200
PFOA	<200
PFOS	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<1,000
N-ethylperfluoro-1-octanesulfonamide	<1,000
N-methyl perfluoro-1-octanesulfonamide	<1,000

Notes:
1. Associated equipment blank and field blank results reported in Table 7-3.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
J - Analyte detected. Reported value may not be accurate or precise
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-3
ONSITE SOIL ANALYTICAL RESULTS - QUALITY CONTROL SAMPLES
Chemours Fayetteville Works, North Carolina

Location	DRILL WATER*	EB	EB	EB
Field Sample ID	DRILL WATER-20190731	PW-EQBLK-1-20190725	PW-EQBLK-2-20190726	PW-EQBLK-3
Sample Date	7/31/2019	7/25/2019	7/26/2019	7/30/2019
QA/QC	--	Equipment Blank	Equipment Blank	Equipment Blank
Depth (ft)	-	-	-	-
SDG	200-49879-2	200-49801-2	200-49809-2	200-49879-2
Lab Sample ID	200-49879-8	200-49801-3	200-49809-4	200-49879-2
Table 3+ Lab SOP (ng/L)				
HFPO-DA (EPA Method 537 Mod)	**17**	<4	<3.6	<4
PFMOAA	<5	--	<5	<5
PFO2HxA	**10**	--	<2	<2
PFO3OA	<2	--	<2	<2
PFO4DA	<2	--	<2	<2
PFO5DA	<2	--	<2	<2
PMPA	**130**	--	<10	<10
PEPA	<20	--	<20	<20
PFESA-BP1	<2	--	<2	<2
PFESA-BP2	**6.7**	--	<2	<2
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
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	<1.8	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<18	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<18	<20
6:2 Fluorotelomer sulfonate	<20	<20	<18	<20
ADONA	<2.1	<2.1	<1.9	<2.1
F-53B Major	<2	<2	<1.8	<2
F-53B Minor	<2	<2	<1.8	<2
NaDONA	<2.1	<2.1	<1.9	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<18	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<18	<20
Perfluorobutane Sulfonic Acid	**2.2**	<2	<1.8	<2
Perfluorobutanoic Acid	<2	<2	**0.32**	<2
Perfluorodecane Sulfonic Acid	<2	<2	<1.8	<2
Perfluorodecanoic Acid	<2	<2	<1.8	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<1.8	<2
Perfluorododecanoic Acid	<2	<2	<1.8	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<1.8	<2
Perfluoroheptanoic Acid	<2	<2	<1.8	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<1.8	<2
Perfluorohexane Sulfonic Acid	<2	<2	**0.24**	<2
Perfluorohexanoic Acid	<2	<2	**0.92**	<2
Perfluorononanesulfonic acid	<2	<2	<1.8	<2
Perfluorononanoic Acid	<2	<2	<1.8	<2
Perfluorooctadecanoic acid	<2	<2	<1.8	<2
Perfluorooctane Sulfonamide	<2	<2	<1.8	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<1.8	<2
Perfluoropentanoic Acid	<2	<2	<1.8	<2
Perfluorotetradecanoic Acid	<2	<2	<1.8	<2
Perfluorotridecanoic Acid	<2	<2	<1.8	<2
Perfluoroundecanoic Acid	<2	<2	<1.8	<2
PFOA	<2	<2	<1.8	<2
PFOS	<2	<2	<1.8	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	<2	<2
N-ethylperfluoro-1-octanesulfonamide	<2	--	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2	--	<2	<2

Notes:

1. Associated soil analytical results reported in Table 7-2.

2. * Drill Water was sourced from offsite fire hydrant. Water is from Bladen County Water System.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SDG - Sample Delivery Group
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
-- - No data reported

TABLE A 7-4
OFFSITE SOIL CHARACTERISTICS
Chemours Fayetteville Works, North Carolina

Sample ID	Well ID	Top (ft bgs)	Bottom (ft bgs)	Visual Description	USCS Classification	pH (s.u.)	Fraction Organic Carbon (g/g)	Specific Gravity	Liquid Limit of Soils	Plastic Limit of Soils	Plasticity Index (PI)	Percent Moisture (%)
BLADEN-1S-081419	Bladen-1S	6	7	Fine to medium grained Silty Sand	SC	4.0	0.0025	2.67	0	0	NP	20.3
BLADEN-2D-081519-72-73	Bladen-2D	72	73	Medium grained sand trace mica	SP-SM	4.2	0.0023	4.66	0	0	NP	33.8
BLADEN-3D-Soil-081919-42-43	Bladen-3D	42	43	Sand with clay	SC	6.0	0.0086	2.69	0	0	NP	22.6
Bladen-3S-Soil-082019-5-6	Bladen-3S	5	6	Coarse grained sand	SW	--	--	--	--	--	--	8.7
Bladen-4S-Soil-082119-5-6	Bladen-4S	5	6	Medium to coarse sand with gravel	SP-SM	7.8	0.0005	2.65	0	0	NP	20.1
CUMBERLAND-1D-46-47-20190912	Cumberland-1D	46	47	Fine Grained Sand	SP	4.4 J	0.0077	2.67	--	--	--	27.5
CUMBERLAND-1S-6-7-20190913	Cumberland-1S	6	7	Medium grained sand with silt	SP	5.2 J	0.0021	2.66	--	--	--	7.1
Cumberland-2D-soil-49-50-0912	Cumberland-2D	49	50	Fine to medium grained sand	SP	5.6	0.0068	2.69	--	--	--	23.9
Cumberland-2S-soil-5-6-0912	Cumberland-2S	5	6	Fine grained clayey sand	SP-SM	5.3	0.0080	2.65	--	--	--	19.3
Cumberland-3D-24-25-20190911	Cumberland-3D	24	25	Medium to coarse grained sand	SP-SM	5.0	0.0028	2.66	--	--	--	11.7
Cumberland-4S-soil-5-6-0911	Cumberland-4S	5	6	Fine to medium grained sand	SP-SC	4.7	0.0018	2.68	--	--	--	14.3
Cumberland-5D-54-55-20190911	Cumberland-5D	54	55	Fine grained sand	SP-SM	4.9	0.0160	2.63	--	--	--	17.8
Robeson-1S-soil-15-16-20190909	Robeson-1S	15	16	Fine grained silty sand	SP-SM	8.2	0.0012	2.67	0	0	NP	18.4

Notes:

1. Laboratory results available as of 09/24/2019 are reported. Additional data will be presented in an addendum to this report.
2."USCS Classification" is the Unified Soil Classification System from the standard practice outlined in ASTM D2487-17.
3. Coefficient of Uniformity (C_u) = D_{60} / D_{10}
4. Coefficient of Curvature (C_c) = $(D_{30})^2$ / (D_{60} * D_{10})
5. Hydraulic Conductivity (K) from grain size calculated using HydrogeoSieveXL (Devlin, 2015).
6. Atterberg limits (Liquid Limit and Plastic Limit) are only tested for fine-grained materials.
7. Visual descriptions are transcribed from field logs.
8. USCS classifications are derived from laboratory data.

-- not measured
% - percent
cc - cubic centimeter
NP - no plasticity
ft/d - feet per day
g - gram
USCS - Unified Soil Classification System
ft bgs - feet below ground surface
CH - fat clay
CL - lean clay
SC - clayey sand
SM - silty sand
SP - poorly graded sand
SW - well graded sand

TABLE A 7-4
OFFSITE SOIL CHARACTERISTICS
Chemours Fayetteville Works, North Carolina

Sample ID	Well ID	Top (ft bgs)	Bottom (ft bgs)	Visual Description	USCS Classification	Grain Size Distribution (%)				Porosity Calculation (%)	In Place Density (g/cc)	Void Ratio	Coefficient of Uniformity (C_u)
						Clay	Silt	Sand	Gravel				
BLADEN-1S-081419	Bladen-1S	6	7	Fine to medium grained Silty Sand	SC	9.2	8.6	81.7	0.5	39.6	1.61	0.7	10.18
BLADEN-2D-081519-72-73	Bladen-2D	72	73	Medium grained sand trace mica	SP-SM	2.9	9.1	88	0	39.1	1.62	0.6	9.17
BLADEN-3D-Soil-081919-42-43	Bladen-3D	42	43	Sand with clay	SC	10.6	7.3	82.1	0	46.2	1.44	0.9	5.89
Bladen-3S-Soil-082019-5-6	Bladen-3S	5	6	Coarse grained sand	SW	--	--	--	--	--	--	--	--
Bladen-4S-Soil-082119-5-6	Bladen-4S	5	6	Medium to coarse sand with gravel	SP-SM	2.6	8.8	88.6	0	42	1.54	0.7	4.71
CUMBERLAND-1D-46-47-20190912	Cumberland-1D	46	47	Fine Grained Sand	SP	6.2	3.2	90.6	0	42.9	1.52	0.8	3.52
CUMBERLAND-1S-6-7-20190913	Cumberland-1S	6	7	Medium grained sand with silt	SP	3.3	16.1	80.6	0	36.6	1.69	0.6	17.48
Cumberland-2D-soil-49-50-0912	Cumberland-2D	49	50	Fine to medium grained sand	SP	1.3	-0.03	94.6	4.1	44.7	1.48	0.8	1.61
Cumberland-2S-soil-5-6-0912	Cumberland-2S	5	6	Fine grained clayey sand	SP-SM	7.8	14.8	77.4	0	40.7	1.57	0.7	19.12
Cumberland-3D-24-25-20190911	Cumberland-3D	24	25	Medium to coarse grained sand	SP-SM	1.2	6.7	91.2	1	47.3	1.4	0.9	2.43
Cumberland-4S-soil-5-6-0911	Cumberland-4S	5	6	Fine to medium grained sand	SP-SC	7.9	3.3	88.8	0	39	1.63	0.6	6.34
Cumberland-5D-54-55-20190911	Cumberland-5D	54	55	Fine grained sand	SP-SM	5.5	10.7	83.8	0	54.9	1.19	1.2	5.3
Robeson-1S-soil-15-16-20190909	Robeson-1S	15	16	Fine grained silty sand	SP-SM	2.6	7.1	90.3	0	41.9	1.55	0.7	2.53

Notes:

1. Laboratory results available as of 09/24/2019 are reported. Additional data will be presented in an addendum to this report.
2."USCS Classification" is the Unified Soil Classification System from the standard practice outlined in ASTM D2487-17.
3. Coefficient of Uniformity (C_u) = D_{60} / D_{10}
4. Coefficient of Curvature (C_c) = $(D_{30})^2$ / (D_{60} * D_{10})
5. Hydraulic Conductivity (K) from grain size calculated using HydrogeoSieveXL (Devlin, 2015).
6. Atterberg limits (Liquid Limit and Plastic Limit) are only tested for fine-grained materials.
7. Visual descriptions are transcribed from field logs.
8. USCS classifications are derived from laboratory data.

-- not measured
% - percent
cc - cubic centimeter
NP - no plasticity
ft/d - feet per day
g - gram
USCS - Unified Soil Classification System
ft bgs - feet below ground surface
CH - fat clay
CL - lean clay
SC - clayey sand
SM - silty sand
SP - poorly graded sand
SW - well graded sand

TABLE A 7-4
OFFSITE SOIL CHARACTERISTICS
Chemours Fayetteville Works, North Carolina

Sample ID	Well ID	Top (ft bgs)	Bottom (ft bgs)	Visual Description	USCS Classification	Coefficient of Curvature (C_c)	K from Grain Size Geometric Mean (ft/d)	Lithologic Unit
BLADEN-1S-081419	Bladen-1S	6	7	Fine to medium grained Silty Sand	SC	3.26	4.24	Surficial Aquifer
BLADEN-2D-081519-72-73	Bladen-2D	72	73	Medium grained sand trace mica	SP-SM	3.03	13.33	Black Creek Aquifer
BLADEN-3D-Soil-081919-42-43	Bladen-3D	42	43	Sand with clay	SC	3.49	4.4	Black Creek Aquifer
Bladen-3S-Soil-082019-5-6	Bladen-3S	5	6	Coarse grained sand	SW	--	--	Surficial Aquifer
Bladen-4S-Soil-082119-5-6	Bladen-4S	5	6	Medium to coarse sand with gravel	SP-SM	2.22	12.8	Surficial Aquifer
CUMBERLAND-1D-46-47-20190912	Cumberland-1D	46	47	Fine Grained Sand	SP	1.8	26.35	Black Creek Aquifer
CUMBERLAND-1S-6-7-20190913	Cumberland-1S	6	7	Medium grained sand with silt	SP	5.57	5.96	Surficial Aquifer
Cumberland-2D-soil-49-50-0912	Cumberland-2D	49	50	Fine to medium grained sand	SP	1.06	128.36	Black Creek Aquifer
Cumberland-2S-soil-5-6-0912	Cumberland-2S	5	6	Fine grained clayey sand	SP-SM	6.85	4.42	Surficial Aquifer
Cumberland-3D-24-25-20190911	Cumberland-3D	24	25	Medium to coarse grained sand	SP-SM	1.19	88.21	Black Creek Aquifer
Cumberland-4S-soil-5-6-0911	Cumberland-4S	5	6	Fine to medium grained sand	SP-SC	3.38	7.81	Surficial Aquifer
Cumberland-5D-54-55-20190911	Cumberland-5D	54	55	Fine grained sand	SP-SM	2.69	5.5	Black Creek Aquifer
Robeson-1S-soil-15-16-20190909	Robeson-1S	15	16	Fine grained silty sand	SP-SM	1.56	18.18	Surficial Aquifer

Notes:

1. Laboratory results available as of 09/24/2019 are reported. Additional data will be presented in an addendum to this report.
2."USCS Classification" is the Unified Soil Classification System from the standard practice outlined in ASTM D2487-17.
3. Coefficient of Uniformity (C_u) = D_{60} / D_{10}
4. Coefficient of Curvature (C_c) = $(D_{30})^2$ / (D_{60} * D_{10})
5. Hydraulic Conductivity (K) from grain size calculated using HydrogeoSieveXL (Devlin, 2015).
6. Atterberg limits (Liquid Limit and Plastic Limit) are only tested for fine-grained materials.
7. Visual descriptions are transcribed from field logs.
8. USCS classifications are derived from laboratory data.

-- not measured
% - percent
cc - cubic centimeter
NP - no plasticity
ft/d - feet per day
g - gram
USCS - Unified Soil Classification System
ft bgs - feet below ground surface
CH - fat clay
CL - lean clay
SC - clayey sand
SM - silty sand
SP - poorly graded sand
SW - well graded sand

TABLE A 7-5
OFFSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	BLADEN-1S	BLADEN-1S	BLADEN-2S	BLADEN-3S
Field Sample ID	**BLADEN-1S-081419**	**DUP-1-081419**	**BLADEN-2S-081619-9.5-10.5**	**Bladen-3S-Soil-082019-5-6**
Sample Date	**8/14/2019**	**8/14/2019**	**8/16/2019**	**8/20/2019**
QA/QC	**--**	**Field Duplicate**	**--**	**--**
Vadose Zone Sample*	**N**	**N**	**N**	**N**
Depth (ft)	**6-7**	**6-7**	**9.5-10.5**	**5-6**
SDG	**200-50099-2**	**200-50099-2**	**200-50148-2**	**200-50185-2**
Lab Sample ID	**200-50099-1**	**200-50099-2**	**200-50148-2**	**200-50185-2**
Table 3+ Lab SOP (ng/kg)				
HFPO-DA (EPA Method 537 Mod)	<250	<250	<250	<250 UJ
PFMOAA	<1,000	<1,000	<1,000 UJ	<1,000
PFO2HxA	<1,000	<1,000	<1,000 UJ	<1,000
PFO3OA	<1,000	<1,000	<1,000 UJ	<1,000
PFO4DA	<1,000	<1,000	<1,000	<1,000
PFO5DA	<1,000	<1,000	<1,000	<1,000
PMPA	<1,000	<1,000	<1,000	<1,000
PEPA	<1,000	<1,000	<1,000	<1,000
PFESA-BP1	<1,000	<1,000	<1,000	<1,000
PFESA-BP2	<1,000	<1,000	<1,000	<1,000
Byproduct 4	<1,000 UJ	<1,000 UJ	<1,000 R	<1,000 R
Byproduct 5	<1,000 UJ	<1,000 UJ	<1,000 R	<1,000 R
Byproduct 6	<1,000	<1,000	<1,000	<1,000
NVHOS	<1,000	<1,000	<1,000	<1,000
EVE Acid	<1,000	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000	<1,000	<1,000 UJ	<1,000
R-EVE	<1,000 R	<1,000 R	<1,000 R	<1,000 R
PES	<1,000	<1,000	<1,000	<1,000
PFECA B	<1,000	<1,000	<1,000 UJ	<1,000
PFECA-G	<1,000	<1,000	<1,000 UJ	<1,000
Other PFAS (ng/kg)				
10:2 Fluorotelomer sulfonate	<200 UJ	<200	<200	<200 UJ
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000	<2,000 UJ
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000	<2,000 UJ
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000	<2,000 UJ
ADONA	<210	<210	<210	<210 UJ
F-53B Major	<200	<200	<200	<200 UJ
F-53B Minor	<200 UJ	<200	<200	<200 UJ
NaDONA	<210	<210	<210	<210 UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000	<2,000 UJ
Perfluorobutane Sulfonic Acid	<420	**340**	<200 UJ	<200 UJ
Perfluorobutanoic Acid	<200	<200	<200	<200 UJ
Perfluorodecane Sulfonic Acid	<200	<200	<200	<200 UJ
Perfluorodecanoic Acid	<200	<200	<200	<200 UJ
Perfluorododecane sulfonic acid (PFDoS)	<200 UJ	<200	<200	<200 UJ
Perfluorododecanoic Acid	<200	<200	<200	<200 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200	<200 UJ
Perfluoroheptanoic Acid	<200	<200	<200	<200 UJ
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200	<200 UJ
Perfluorohexane Sulfonic Acid	<200	<200	<200	<200 UJ
Perfluorohexanoic Acid	<200	<200	<200	<200 UJ
Perfluorononanesulfonic acid	<200	<200	<200	<200 UJ
Perfluorononanoic Acid	<200	<200	<200	<200 UJ
Perfluorooctadecanoic acid	<200	<200	<200	<200 UJ
Perfluorooctane Sulfonamide	<200	<200	<200	<200 UJ
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200	<200 UJ
Perfluoropentanoic Acid	<200	<200	<200	<200 UJ
Perfluorotetradecanoic Acid	<200	<200	<200	<200 UJ
Perfluorotridecanoic Acid	<200	<200	<200	<200 UJ
Perfluoroundecanoic Acid	<200	<200	<200	<200 UJ
PFOA	<200	<200	<200	<200 UJ
PFOS	<500	<500	<500	<500 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200 UJ	<200 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200 UJ	<200 UJ
N-ethylperfluoro-1-octanesulfonamide	<200	<200	<200	<200 UJ
N-methyl perfluoro-1-octanesulfonamide	<200	<200	<200	<200 UJ
Other				
Percent Moisture	20.3	11.3	12.2	8.7
Percent Solids	--	88.7	87.8	91.3

Notes:
1. Associated equipment blank and field blank results reported in Table 7-6.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-5
OFFSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	BLADEN-4S	CUMBERLAND-1S	CUMBERLAND-2S
Field Sample ID	Bladen-4S-Soil-082119-5-6	CUMBERLAND-1S-6-7-20190913	Cumberland-2S-soil-5-6-0912
Sample Date	8/21/2019	9/13/2019	9/12/2019
QA/QC	--	--	--
Vadose Zone Sample*	N	N	N
Depth (ft)	5-6	6-7	5-6
SDG	200-50202-2	200-50567-2	200-50537-2
Lab Sample ID	200-50202-1	200-50567-2	200-50537-2
Table 3+ Lab SOP (ng/kg)			
HFPO-DA (EPA Method 537 Mod)	<250	<250	<250
PFMOAA	<1,000	<1,000	<1,000 UJ
PFO2HxA	<1,000	<1,000	<1,000 UJ
PFO3OA	<1,000	<1,000	<1,000 UJ
PFO4DA	<1,000	<1,000	<1,000 UJ
PFO5DA	<1,000	<1,000	<1,000 UJ
PMPA	<1,000	<1,000	<1,000 UJ
PEPA	<1,000	<1,000	<1,000 UJ
PFESA-BP1	<1,000	<1,000	<1,000 UJ
PFESA-BP2	<1,000	<1,000	<1,000 UJ
Byproduct 4	<1,000	<1,000	<1,000 R
Byproduct 5	<1,000	<1,000	<1,000 UJ
Byproduct 6	<1,000	<1,000	<1,000 UJ
NVHOS	<1,000	<1,000	<1,000 UJ
EVE Acid	<1,000	<1,000	<1,000 UJ
Hydro-EVE Acid	<1,000	<1,000	<1,000 UJ
R-EVE	<1,000	<1,000	<1,000 UJ
PES	<1,000	<1,000	<1,000 UJ
PFECA B	<1,000	<1,000	<1,000 UJ
PFECA-G	<1,000	<1,000	<1,000 UJ
Other PFAS (ng/kg)			
10:2 Fluorotelomer sulfonate	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000
ADONA	<210	<210	<210
F-53B Major	<200	<200	<200
F-53B Minor	<200	<200	<200
NaDONA	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200
PFOA	<200	<200	<200
PFOS	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200
N-ethylperfluoro-1-octanesulfonamide	<200	<200	<200
N-methyl perfluoro-1-octanesulfonamide	<200	<200	<200
Other			
Percent Moisture	20.1	7.1	19.3
Percent Solids	--	--	--

Notes:
1. Associated equipment blank and field blank results reported in Table 7-6.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
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ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
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SDG - Sample Delivery Group
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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-- - No data reported

TABLE A 7-5
OFFSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	CUMBERLAND-3S	CUMBERLAND-4S	CUMBERLAND-4S
Field Sample ID	**Cumberland-3S-soil-6-7-0912**	**Cumberland-4S-soil-5-6-0911**	**Dup1-20190911**
Sample Date	**9/12/2019**	**9/11/2019**	**9/11/2019**
QA/QC	**--**	**--**	**Field Duplicate**
Vadose Zone Sample*	**N**	**N**	**N**
Depth (ft)	**6-7**	**5-6**	**5-6**
SDG	**200-50537-2**	**200-50518-2**	**200-50518-2**
Lab Sample ID	**200-50537-4**	**200-50518-1**	**200-50518-2**
Table 3+ Lab SOP (ng/kg)			
HFPO-DA (EPA Method 537 Mod)	<320	**320**	**390**
PFMOAA	<1,000	<1,000	<1,000
PFO2HxA	<1,000	<1,000	<1,000
PFO3OA	<1,000	<1,000	<1,000
PFO4DA	<1,000	<1,000	<1,000
PFO5DA	<1,000	<1,000	<1,000
PMPA	<1,000	<1,000	<1,000
PEPA	<1,000	<1,000	<1,000
PFESA-BP1	<1,000	<1,000	<1,000
PFESA-BP2	<1,000	<1,000	<1,000
Byproduct 4	<1,000	<1,000 R	<1,000 R
Byproduct 5	<1,000	<1,000 R	<1,000 R
Byproduct 6	<1,000	<1,000	<1,000
NVHOS	<1,000	<1,000	<1,000
EVE Acid	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000	<1,000	<1,000
R-EVE	<1,000	<1,000 R	<1,000 R
PES	<1,000	<1,000	<1,000
PFECA B	<1,000	<1,000	<1,000
PFECA-G	<1,000	<1,000	<1,000
Other PFAS (ng/kg)			
10:2 Fluorotelomer sulfonate	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000
ADONA	<210	<210	<210
F-53B Major	<200	<200	<200
F-53B Minor	<200	<200	<200
NaDONA	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200
PFOA	<200	<200	<200
PFOS	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<200	<200	<200
N-ethylperfluoro-1-octanesulfonamide	<200	<200	<200
N-methyl perfluoro-1-octanesulfonamide	<200	<200	<200
Other			
Percent Moisture	3.7	14.3	16.1
Percent Solids	96.3	--	83.9

Notes:
1. Associated equipment blank and field blank results reported in Table 7-6.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-5
OFFSITE SOIL ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Location	CUMBERLAND-5S	ROBESON-1S	ROBESON-1S
Field Sample ID	Cumberland-5S-3-4-20190911	Robeson-1S-soil-15-16-20190909	Robeson-1S-soil-5-6-20190909
Sample Date	9/11/2019	9/9/2019	9/9/2019
QA/QC	--	--	--
Vadose Zone Sample*	N	N	N
Depth (ft)	3-4	15-16	5-6
SDG	200-50518-2	200-50460-2	200-50460-2
Lab Sample ID	200-50518-4	200-50460-1	200-50460-2
Table 3+ Lab SOP (ng/kg)			
HFPO-DA (EPA Method 537 Mod)	<250	<250	<250
PFMOAA	<1,000	<1,000	<1,000 UJ
PFO2HxA	<1,000	<1,000	<1,000 UJ
PFO3OA	<1,000 UJ	<1,000	<1,000 UJ
PFO4DA	<1,000	<1,000	<1,000 UJ
PFO5DA	<1,000	<1,000	<1,000
PMPA	<1,000	<1,000	<1,000
PEPA	<1,000	<1,000	<1,000
PFESA-BP1	<1,000	<1,000	<1,000
PFESA-BP2	<1,000	<1,000	<1,000
Byproduct 4	<1,000	<1,000 R	<1,000 R
Byproduct 5	<1,000	<1,000 R	<1,000 R
Byproduct 6	<1,000	<1,000	<1,000
NVHOS	<1,000	<1,000	<1,000
EVE Acid	<1,000	<1,000	<1,000
Hydro-EVE Acid	<1,000	<1,000	<1,000
R-EVE	<1,000 UJ	<1,000 R	<1,000 R
PES	<1,000	<1,000	<1,000
PFECA B	<1,000	<1,000	<1,000 UJ
PFECA-G	<1,000	<1,000	<1,000 UJ
Other PFAS (ng/kg)			
10:2 Fluorotelomer sulfonate	<200	<200	<200
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2,000	<2,000	<2,000
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2,000	<2,000	<2,000
6:2 Fluorotelomer sulfonate	<2,000	<2,000	<2,000
ADONA	<210	<210	<210
F-53B Major	<200	<200	<200
F-53B Minor	<200	<200	<200
NaDONA	<210	<210	<210
N-ethyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
N-methyl perfluorooctane sulfonamidoacetic acid	<2,000	<2,000	<2,000
Perfluorobutane Sulfonic Acid	<200	<200	<200
Perfluorobutanoic Acid	<200	<200	<200
Perfluorodecane Sulfonic Acid	<200	<200	<200
Perfluorodecanoic Acid	<200	<200	<200
Perfluorododecane sulfonic acid (PFDoS)	<200	<200	<200
Perfluorododecanoic Acid	<200	<200	<200
Perfluoroheptane sulfonic acid (PFHpS)	<200	<200	<200
Perfluoroheptanoic Acid	<200	<200	<200
Perfluorohexadecanoic acid (PFHxDA)	<200	<200	<200
Perfluorohexane Sulfonic Acid	<200	<200	<200
Perfluorohexanoic Acid	<200	<200	<200
Perfluorononanesulfonic acid	<200	<200	<200
Perfluorononanoic Acid	<200	<200	<200
Perfluorooctadecanoic acid	<200	<200	<200
Perfluorooctane Sulfonamide	<200	<200	<200
Perfluoropentane sulfonic acid (PFPeS)	<200	<200	<200
Perfluoropentanoic Acid	<200	<200	<200
Perfluorotetradecanoic Acid	<200	<200	<200
Perfluorotridecanoic Acid	<200	<200	<200
Perfluoroundecanoic Acid	<200	<200	<200
PFOA	<200	<200	<200
PFOS	<500	<500	<500
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<200	<1,000	<1,000
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<200	<1,000	<1,000
N-ethylperfluoro-1-octanesulfonamide	<200	<1,000	<1,000
N-methyl perfluoro-1-octanesulfonamide	<200	<1,000	<1,000
Other			
Percent Moisture	18.2	18.4 J	12.3
Percent Solids	81.8	--	87.7

Notes:
1. Associated equipment blank and field blank results reported in Table 7-6.
2. * Select soil samples collected from saturated zone for soil physical parameters were also inadvertently analyzed for PFAS.

Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
ng/kg - nanograms per kilogram
QA/QC - Quality assurance/ quality control
R - Result rejected based on QA/QC criteria
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.
-- - No data reported

TABLE A 7-6
OFFSITE SOIL ANALYTICAL RESULTS - QUALITY CONTROL SAMPLES
Chemours Fayetteville Works, North Carolina

Location	EB	EQBLK	FBLK	FBLK
Field Sample ID	BLADEN-2S-SOIL-EQBLK-RINSATE	BLADEN-SOIL-EQBLK-1-RINSATE	BLADEN-SOIL-EQBLK-1-FIELD	BLADEN-2S-SOIL-EQBLK-FIELD BLA
Sample Date	8/16/2019	8/14/2019	8/14/2019	8/16/2019
QA/QC	Equipment Blank	Equipment Blank	Field Blank	Field Blank
Depth (ft)	--	--	--	--
SDG	200-50148-2	200-50099-2	200-50099-2	200-50148-2
Lab Sample ID	200-50148-4	200-50099-3	200-50099-4	200-50148-3
Table 3+ Lab SOP (ng/L)				
HFPO-DA (EPA Method 537 Mod)	<4	<4	<4	<4
PFMOAA	<5	<5	<5	<5
PFO2HxA	<2	<2	<2	<2
PFO3OA	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2
PFESA-BP2	<2	<2	<2	<2
Byproduct 4	<2	<2	<2	<2
Byproduct 5	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	<4	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
ADONA	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2	<2	<2	<2
F-53B Minor	<2	<2	<2	<2
NaDONA	<2.1	<2.1	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	**2.5**
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--

Notes:
1. Associated soil analytical results reported in Table 7-5.
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
ft - feet
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SDG - Sample Delivery Group
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
-- - No data reported

TABLE A 9-1
GROUNDWATER ELEVATIONS
Chemours Fayetteville Works, North Carolina

Area	Aquifer	Well ID	Gauging Date	Northing (ft, SPCS NAD83)	Easting (ft, SPCS NAD83)	Screened Interval (ft bgs)	TOC Elevation (ft NAVD 88)	Depth to Water (ft, from TOC)	Groundwater Elevation (ft NAVD88)
Onsite	Black Creek Aquifer	BCA-01	15-Oct-19	399,780.06	2,050,662.22	91 - 101	146.30	58.92	87.38
Onsite	Black Creek Aquifer	BCA-02	15-Oct-19	396,242.32	2,051,062.21	92 - 102	148.42	73.87	74.55
Onsite	Black Creek Aquifer	BCA-03R	15-Oct-19	398,582.23	2,049,522.22	88 - 98	150.82	49.55	101.27
Onsite	Black Creek Aquifer	BCA-04	15-Oct-19	395,877.67	2,047,823.11	94 - 104	150.24	28.69	121.55
Onsite	Perched Zone	FTA-01	15-Oct-19	397,907.50	2,049,373.61	12.0 - 22.0	150.63	17.02	133.61
Onsite	Perched Zone	FTA-02	15-Oct-19	397,786.43	2,049,206.27	11.5 - 21.5	150.28	18.00	132.28
Onsite	Perched Zone	FTA-03	15-Oct-19	397,767.09	2,049,313.86	12.0 - 22.0	151.08	18.18	132.90
Onsite	Surficial Aquifer	INSITU-01	15-Oct-19	401,658.20	2,046,077.31	7.0 - 17.0	118.20	6.46	111.74
Onsite	Surficial Aquifer	INSITU-02	15-Oct-19	401,863.46	2,049,136.62	7.0 - 17.0	113.12	DRY	--
Onsite	Floodplain Deposits	LTW-01	15-Oct-19	399,566.17	2,052,149.95	11.0 - 26.0	53.83	16.53	37.30
Onsite	Black Creek Aquifer	LTW-02	15-Oct-19	398,848.36	2,052,354.37	28.0 - 38.0	52.48	10.29	42.19
Onsite	Floodplain Deposits	LTW-03	15-Oct-19	398,115.15	2,052,557.52	15.0 - 30.0	52.91	13.20	39.71
Onsite	Floodplain Deposits	LTW-04	15-Oct-19	397,280.24	2,052,583.60	12.0 - 27.0	51.86	9.31	42.55
Onsite	Black Creek Aquifer	LTW-05	15-Oct-19	396,430.68	2,052,738.06	29.0 - 44.0	52.01	9.66	42.35
Onsite	Perched Zone	MW-11	15-Oct-19	396,544.40	2,049,051.06	11.5 - 21.5	148.53	23.40	125.13
Onsite	Perched Zone	MW-12S	15-Oct-19	397,253.60	2,049,273.89	17.5 - 22.5	152.06	20.45	131.61
Onsite	Surficial Aquifer	MW-13D	15-Oct-19	397,119.02	2,049,821.12	57 - 67	148.65	44.32	104.33
Onsite	Surficial Aquifer	MW-14D	15-Oct-19	396,974.49	2,049,074.56	62 - 72	149.73	40.06	109.67
Onsite	Surficial Aquifer	MW-15DRR	15-Oct-19	398,580.71	2,049,511.75	52.5 - 62.5	150.92	47.55	103.37
Onsite	Surficial Aquifer	MW-16D	15-Oct-19	398,493.70	2,048,402.84	72 - 82	148.41	35.39	113.02
Onsite	Surficial Aquifer	MW-17D	15-Oct-19	398,401.74	2,047,366.50	57 - 67	146.12	29.03	117.09
Onsite	Surficial Aquifer	MW-18D	15-Oct-19	400,947.38	2,046,574.72	50 - 60	107.57	20.29	87.28
Onsite	Surficial Aquifer	MW-19D	15-Oct-19	401,151.33	2,048,272.99	46 - 56	139.55	51.31	88.24
Onsite	Perched Zone	MW-1S	15-Oct-19	397,080.31	2,049,120.73	21.0-24.0	149.93	19.24	130.69
Onsite	Surficial Aquifer	MW-20D	15-Oct-19	400,791.28	2,048,733.91	65 - 75	137.18	47.67	89.51
Onsite	Surficial Aquifer	MW-21D	15-Oct-19	399,501.70	2,047,074.96	72 - 82	151.38	45.67	105.71
Onsite	Surficial Aquifer	MW-22D	15-Oct-19	398,518.18	2,048,362.68	52 - 72	149.06	35.24	113.82
Onsite	Perched Zone	MW-23	15-Oct-19	396,237.61	2,051,063.25	9.5 - 14.5	148.34	14.41	133.93
Onsite	Perched Zone	MW-24	15-Oct-19	397,303.94	2,048,767.69	18.8 - 23.8	150.31	NM	--
Onsite	Perched Zone	MW-25	15-Oct-19	396,753.37	2,050,989.82	12 - 17	147.59	14.30	133.29
Onsite	Perched Zone	MW-26	15-Oct-19	396,265.18	2,051,484.67	5 - 10	147.70	11.71	135.99
Onsite	Perched Zone	MW-27	15-Oct-19	396,010.33	2,051,472.00	10 - 15	146.83	14.84	131.99
Onsite	Perched Zone	MW-28	15-Oct-19	395,719.79	2,051,165.93	9 - 14	144.70	14.50	130.20
Onsite	Perched Zone	MW-2S	15-Oct-19	396,934.75	2,049,321.85	19.0 - 23.0	149.91	19.55	130.36
Onsite	Perched Zone	MW-30	15-Oct-19	397,340.79	2,050,776.09	10 - 15	147.67	14.66	133.01
Onsite	Perched Zone	MW-31	15-Oct-19	396,390.50	2,049,622.88	17-22	147.70	15.72	131.98
Onsite	Perched Zone	MW-32	15-Oct-19	396,359.58	2,049,651.79	13-18.5	147.11	14.75	132.36
Onsite	Perched Zone	MW-33	15-Oct-19	396,337.51	2,049,678.56	12-17	146.82	14.26	132.56
Onsite	Perched Zone	MW-34	15-Oct-19	396,352.90	2,049,619.09	17-22	147.97	15.78	132.19
Onsite	Perched Zone	MW-35	15-Oct-19	396,332.94	2,049,631.16	14-19	147.54	15.25	132.29
Onsite	Perched Zone	MW-36	15-Oct-19	396,320.09	2,049,651.17	12-17	147.89	15.81	132.08
Onsite	Perched Zone	MW-7S	15-Oct-19	397,444.52	2,049,809.73	NA	147.47	11.36	136.11
Onsite	Perched Zone	MW-8S	15-Oct-19	397,096.48	2,049,867.77	NA	146.48	DRY	--
Onsite	Perched Zone	MW-9S	15-Oct-19	396,760.16	2,049,734.30	17.5-22.5	154.39	21.58	132.81
Onsite	Perched Zone	NAF-01	15-Oct-19	398,349.77	2,050,338.81	5.0-15.0	149.66	10.25	139.41
Onsite	Perched Zone	NAF-02	15-Oct-19	398,662.80	2,050,640.86	5.0-15.0	150.31	10.88	139.43
Onsite	Perched Zone	NAF-03	15-Oct-19	398,580.65	2,050,755.43	5.0-15.0	150.44	NM	--
Onsite	Perched Zone	NAF-04	15-Oct-19	398,447.00	2,050,718.95	5.0-15.0	148.10	8.11	139.99
Onsite	Perched Zone	NAF-05A	15-Oct-19	398,641.22	2,051,024.85	NA	NA	exclusion zone	--
Onsite	Surficial Aquifer	NAF-05B	15-Oct-19	398,660.23	2,051,021.81	NA	NA	exclusion zone	--
Onsite	Perched Zone	NAF-06	15-Oct-19	398,809.66	2,050,911.91	2.75 - 12.75	146.43	11.95	134.48
Onsite	Perched Zone	NAF-07	15-Oct-19	398,899.33	2,050,616.50	5.5 - 15.5	149.69	10.77	138.92
Onsite	Perched Zone	NAF-08A	15-Oct-19	398,097.99	2,050,886.62	5.0 - 15.0	148.82	10.28	138.54
Onsite	Surficial Aquifer	NAF-08B	15-Oct-19	398,095.64	2,050,879.94	43.5 - 53.5	148.86	52.87	95.99
Onsite	Perched Zone	NAF-09	15-Oct-19	397,711.09	2,050,806.52	7.0 - 17.0	149.29	12.91	136.38
Onsite	Perched Zone	NAF-10	15-Oct-19	397,612.57	2,050,423.15	8.25 - 18.25	150.00	14.24	135.76
Onsite	Perched Zone	NAF-11A	15-Oct-19	398,909.29	2,050,999.92	2.5 - 7.5	140.59	10.01	130.58
Onsite	Surficial Aquifer	NAF-11B	15-Oct-19	398,911.13	2,050,995.88	33.5 - 43.5	140.74	46.50	94.24
Onsite	Perched Zone	NAF-12	15-Oct-19	398,270.56	2,050,777.49	18 - 23	145.93	NM	--
Onsite	Perched Zone	NAF-13	15-Oct-19	398,370.49	2,051,260.72	11 - 16	152.29	17.35	134.94
Onsite	Black Creek Aquifer	PIW-10DR	15-Oct-19	395,093.99	2,052,297.30	53 - 58	75.91	14.63	61.28
Onsite	Surficial Aquifer	PIW-10S	15-Oct-19	395,104.67	2,052,297.04	7 - 17	76.45	18.79	57.66
Onsite	Surficial Aquifer	PIW-1D	15-Oct-19	400,547.77	2,051,801.42	24.5 - 29.5	52.33	19.52	32.81
Onsite	Floodplain Deposits	PIW-1S	15-Oct-19	400,540.61	2,051,792.59	7.8 - 17.8	54.20	21.61	32.59
Onsite	Black Creek Aquifer	PIW-2D	15-Oct-19	399,922.75	2,051,317.64	40 - 50	100.85	36.30	64.55
Onsite	Black Creek Aquifer	PIW-3D	15-Oct-19	399,711.75	2,052,088.80	19 - 24	53.32	17.51	35.80
Onsite	Black Creek Aquifer	PIW-4D	15-Oct-19	398,817.36	2,052,102.82	32.3 - 37.3	53.04	11.36	41.68
Onsite	Surficial Aquifer	PIW-5S	15-Oct-19	398,520.38	2,051,951.26	9.8 - 19.8	75.19	14.73	60.46
Onsite	Floodplain Deposits	PIW-6S	15-Oct-19	398,118.14	2,052,540.57	18 - 28	53.36	14.76	38.60
Onsite	Black Creek Aquifer	PIW-7D	15-Oct-19	396,787.69	2,052,595.37	29 - 34	48.60	5.91	42.69
Onsite	Floodplain Deposits	PIW-7S	15-Oct-19	396,787.00	2,052,589.49	7 - 17	48.39	5.88	42.51
Onsite	Black Creek Aquifer	PIW-8D	15-Oct-19	396,403.38	2,052,682.02	35.5 - 45.5	48.52	7.41	41.11
Onsite	Black Creek Aquifer	PIW-9D	15-Oct-19	396,155.97	2,052,250.91	40 - 45	79.53	37.45	42.08
Onsite	Surficial Aquifer	PIW-9S	15-Oct-19	396,148.11	2,052,251.10	24.8 - 29.8	79.53	30.47	49.06
Onsite	Perched Zone	PW-01	15-Oct-19	399,064.80	2,049,654.30	11 - 21	149.55	16.00	133.55
Onsite	Surficial Aquifer	PW-02	15-Oct-19	399,779.06	2,050,649.47	50 - 60	146.43	56.38	90.05
Onsite	Surficial Aquifer	PW-03	15-Oct-19	397,339.81	2,050,765.32	35 - 45	147.97	42.40	105.57
Onsite	Surficial Aquifer	PW-04	15-Oct-19	394,659.55	2,050,940.66	17 - 27	97.75	27.85	69.90
Onsite	Surficial Aquifer	PW-05	15-Oct-19	395,873.10	2,047,812.93	65 - 75	150.34	29.09	121.25
Onsite	Surficial Aquifer	PW-06	15-Oct-19	392,868.00	2,045,288.77	19 - 29	147.69	19.50	128.19
Onsite	Surficial Aquifer	PW-07	15-Oct-19	390,847.71	2,049,258.26	28 - 38	148.16	39.49	108.67
Onsite	Black Creek Aquifer	PW-09	15-Oct-19	401,997.39	2,048,980.54	44 - 54	77.49	25.25	52.24
Onsite	Black Creek Aquifer	PW-10R	15-Oct-19	398,516.12	2,051,936.59	57 - 67	75.90	27.76	48.15
Onsite	Black Creek Aquifer	PW-11	15-Oct-19	394,354.36	2,052,226.72	53 - 63	73.26	33.66	39.60
Onsite	Black Creek Aquifer	PW-12	15-Oct-19	399,500.45	2,047,063.51	109 - 119	150.61	57.96	92.65
Onsite	Black Creek Aquifer	PW-13	15-Oct-19	397,584.26	2,048,029.18	120 - 130	149.36	29.57	119.79
Onsite	Black Creek Aquifer	PW-14	15-Oct-19	397,325.65	2,050,766.36	136 - 146	147.97	61.11	86.86
Onsite	Black Creek Aquifer	PW-15R	15-Oct-19	398,900.88	2,051,011.75	110 - 120	136.14	59.18	76.96
Onsite	Perched Zone	PZ-11	15-Oct-19	398,646.25	2,049,820.94	15 - 20	151.03	14.01	137.02
Onsite	Perched Zone	PZ-12	15-Oct-19	399,094.96	2,048,981.78	15.1 - 20.1	150.91	20.17	130.74
Onsite	Perched Zone	PZ-13	15-Oct-19	397,708.07	2,050,991.73	7.1 - 12.1	149.20	12.47	136.73
Onsite	Perched Zone	PZ-14	15-Oct-19	397,589.92	2,050,618.27	9.0 - 14.0	148.38	16.26	132.12
Onsite	Perched Zone	PZ-15	15-Oct-19	396,805.09	2,050,112.02	10.2 - 15.2	148.79	13.67	135.12
Onsite	Perched Zone	PZ-17	15-Oct-19	396,614.82	2,048,872.69	21.1 - 26.1	150.08	28.27	121.81
Onsite	Perched Zone	PZ-19R	15-Oct-19	397,998.66	2,049,919.52	16 - 21	150.05	14.51	135.54
Onsite	Perched Zone	PZ-20R	15-Oct-19	398,185.81	2,049,784.60	15 - 20	151.29	15.82	135.47
Onsite	Perched Zone	PZ-21R	15-Oct-19	398,445.16	2,049,883.13	17 - 22	150.67	14.45	136.22
Onsite	Black Creek Aquifer	PZ-22	15-Oct-19	397,272.80	2,052,584.04	36.0 - 46.0	51.81	7.75	44.06

TABLE A 9-1
GROUNDWATER ELEVATIONS
Chemours Fayetteville Works, North Carolina

Area	Aquifer	Well ID	Gauging Date	Northing (ft, SPCS NAD83)	Easting (ft, SPCS NAD83)	Screened Interval (ft bgs)	TOC Elevation (ft NAVD 88)	Depth to Water (ft, from TOC)	Groundwater Elevation (ft NAVD88)
Onsite	Perched Zone	PZ-24	15-Oct-19	396,117.94	2,050,744.07	11 - 16	147.53	14.17	133.36
Onsite	Perched Zone	PZ-25	15-Oct-19	396,753.94	2,050,991.05	14 - 19	147.59	21.35	126.24
Onsite	Perched Zone	PZ-26	15-Oct-19	396,059.78	2,050,382.35	11 - 16	147.70	12.90	134.80
Onsite	Perched Zone	PZ-27	15-Oct-19	395,922.11	2,050,376.76	12 - 17	147.17	13.20	133.97
Onsite	Perched Zone	PZ-28	15-Oct-19	396,304.55	2,049,933.79	13 - 18	148.64	13.50	135.14
Onsite	Perched Zone	PZ-29	15-Oct-19	396,371.49	2,049,768.94	13 - 18	147.74	14.45	133.29
Onsite	Perched Zone	PZ-31	15-Oct-19	396,428.73	2,049,594.36	14 - 19	148.00	17.30	130.70
Onsite	Perched Zone	PZ-32	15-Oct-19	396,418.47	2,049,713.79	13 - 18	148.47	15.31	133.16
Onsite	Perched Zone	PZ-33	15-Oct-19	396,308.92	2,049,707.66	12.5 - 17.5	146.72	14.00	132.72
Onsite	Perched Zone	PZ-34	15-Oct-19	396,292.05	2,049,595.04	13.5 - 18.5	147.70	15.81	131.88
Onsite	Perched Zone	PZ-35	15-Oct-19	398,232.64	2,050,020.49	13 - 18	150.43	14.11	136.32
Onsite	Surficial Aquifer	SMW-01	15-Oct-19	395,295.75	2,043,679.19	5.0 - 15.0	136.81	13.30	123.51
Onsite	Perched Zone	SMW-02	15-Oct-19	399,983.75	2,050,654.77	5.0 - 20.0	147.93	15.98	131.95
Onsite	Surficial Aquifer	SMW-02B	15-Oct-19	399,983.48	2,050,660.48	43.0 - 53.0	145.21	DRY	--
Onsite	Perched Zone	SMW-03	15-Oct-19	399,778.25	2,049,445.96	10.0 - 20.0	151.09	DRY	--
Onsite	Black Creek Aquifer	SMW-03B	15-Oct-19	399,785.75	2,049,421.54	72 - 82	150.43	57.03	93.40
Onsite	Perched Zone	SMW-04A	15-Oct-19	399,668.71	2,048,387.57	19.5 - 34.5	148.09	37.11	110.98
Onsite	Surficial Aquifer	SMW-04B	15-Oct-19	399,667.12	2,048,390.30	43.0 - 53.0	148.37	45.43	102.94
Onsite	Perched Zone	SMW-05	15-Oct-19	399,334.07	2,048,557.33	10.0 - 20.0	148.10	23.05	125.05
Onsite	Surficial Aquifer	SMW-05P	15-Oct-19	399,338.61	2,048,559.26	45.0 - 60.0	149.32	44.01	105.31
Onsite	Perched Zone	SMW-06	15-Oct-19	399,172.35	2,048,759.48	12.0 - 22.0	150.97	24.93	126.04
Onsite	Surficial Aquifer	SMW-06B	15-Oct-19	399,144.74	2,048,764.94	58 - 68	150.32	47.17	103.15
Onsite	Perched Zone	SMW-07	15-Oct-19	398,932.91	2,048,611.16	13.0 - 23.0	147.64	19.66	127.98
Onsite	Perched Zone	SMW-08	15-Oct-19	399,064.97	2,048,468.78	21.0 - 31.0	151.02	DRY	--
Onsite	Surficial Aquifer	SMW-08B	15-Oct-19	399,058.33	2,048,478.84	58 - 68	148.81	40.52	108.29
Onsite	Surficial Aquifer	SMW-09	15-Oct-19	401,076.89	2,050,017.41	52 - 62	141.43	56.23	85.20
Onsite	Black Creek Aquifer	SMW-10	15-Oct-19	402,307.31	2,047,923.84	39 - 49	76.26	29.57	46.69
Onsite	Surficial Aquifer	SMW-11	15-Oct-19	401,996.15	2,048,975.38	13 - 23	71.95	14.08	57.87
Onsite	Black Creek Aquifer	SMW-12	15-Oct-19	401,314.20	2,051,007.22	88 - 98	118.22	84.78	33.44
Offsite	Black Creek Aquifer	Bladen-1D	15-Oct-19	387,519.56	2,050,248.83	37 - 47	81.52	19.72	61.80
Offsite	Surficial Aquifer	Bladen-1S	15-Oct-19	387,516.28	2,050,234.78	5 - 10	81.31	10.14	71.17
Offsite	Black Creek Aquifer	Bladen-2D	15-Oct-19	368,824.41	2,042,879.78	70 - 75	142.85	20.50	122.35
Offsite	Surficial Aquifer	Bladen-2S	15-Oct-19	368,818.78	2,042,884.35	10 - 20	142.62	6.99	135.63
Offsite	Black Creek Aquifer	Bladen-3D	15-Oct-19	396,854.29	2,059,007.99	33.75 - 43.75	79.09	10.32	68.77
Offsite	Surficial Aquifer	Bladen-3S	15-Oct-19	396,859.62	2,059,014.36	5 - 15	78.84	9.51	69.33
Offsite	Black Creek Aquifer	Bladen-4D	15-Oct-19	363,252.43	2,087,638.29	46.75 - 51.75	64.23	1.43	62.80
Offsite	Surficial Aquifer	Bladen-4S	15-Oct-19	363,260.51	2,087,638.88	4.75 - 14.75	64.26	5.84	58.42
Offsite	Black Creek Aquifer	Cumberland-1D	15-Oct-19	431,477.66	2,011,002.07	40 - 50	179.18	7.27	171.91
Offsite	Surficial Aquifer	Cumberland-1S	15-Oct-19	431,477.66	2,011,002.07	15 - 25	179.41	7.16	172.25
Offsite	Black Creek Aquifer	Cumberland-2D	15-Oct-19	450,054.48	2,074,001.35	47 - 57	133.79	5.68	128.11
Offsite	Surficial Aquifer	Cumberland-2S	15-Oct-19	450,054.48	2,074,001.35	7 - 17	133.61	5.91	127.70
Offsite	Black Creek Aquifer	Cumberland-3D	15-Oct-19	423,131.53	2,060,380.35	22 - 27	83.34	8.17	75.17
Offsite	Surficial Aquifer	Cumberland-3S	15-Oct-19	423,131.53	2,060,380.35	9 - 14	83.62	8.73	74.89
Offsite	Black Creek Aquifer	Cumberland-4D	15-Oct-19	413,160.26	2,078,233.75	57 - 67	123.79	13.82	109.97
Offsite	Surficial Aquifer	Cumberland-4S	15-Oct-19	413,160.26	2,078,233.75	10 - 20	123.93	7.51	116.42
Offsite	Black Creek Aquifer	Cumberland-5D	15-Oct-19	405,673.82	2,138,069.54	52 - 57	106.67	8.38	98.29
Offsite	Surficial Aquifer	Cumberland-5S	15-Oct-19	405,673.82	2,138,069.54	14 - 24	106.65	4.77	101.88
Offsite	Black Creek Aquifer	Robeson-1D	15-Oct-19	381,338.72	2,020,239.81	42.75 - 52.75	160.93	13.74	147.19
Offsite	Surficial Aquifer	Robeson-1S	15-Oct-19	381,338.72	2,020,239.81	17 - 27	161.22	18.15	143.07

Notes:

1. Area - refers to location of well within site property boundary (“Onsite”) and outside property boundary (“Offsite”)
2. Aquifer - refers to primary aquifer unit well screen is estimated to be screened within
3. DRY - Water levels could not be calculated because well was dry.
4. NM - Not Measured. Water levels were not measured because well location was not accessible at the time of measurement due to well located within the "blast zone" or well was pumping (NAF-03, NAF-12 and M
5. -- - Groundwater elevation data not available because well was either dry, not accessible or was pumping at the time of measurement
6. NAF-05A and NAF-05B located in exclusion zone - Well location not safely accessible at the time of measurement.
7. Water levels were measured during a single synoptic event over a continuous 24-hour period.
8. Survey completed by Freeland-Clinkscales & Associates of NC.
9. Northing and Easting provided in North Carolina State Plane System (zone 3200), North American Datum 1983.
10. Vertical datum is North American Vertical Datum of 1988.

ft bgs - feet below ground surface
NAVD88 - North American Vertical Datum of 1988
TOC - Top of Casing
ft SPCS NAD83 - feet State Plane Coordinate System, North American Datum of 1983

TABLE A 9-2
VERTICAL GRADIENTS
Chemours Fayetteville Works, North Carolina

	Aquifer	Well Pair ID	Well ID	Gauging Date	Northing (NAD 83)	Easting (NAD 83)	Screened Interval (ft bgs)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Shallow/Deep	Groundwater Elevation (ft-NAVD88)	Vertical Gradient (feet/feet)	Direction
Perched / Surficial	Perched Zone	WP1	NAF-11A	10/15/2019	398,909.29	2,050,999.92	2.5 - 7.5	137.55	140.59	s	130.58	36.34	Downward (NAF-11A to NAF-11B)
	Surficial Aquifer		NAF-11B	10/15/2019	398,911.13	2,050,995.88	33.5 - 43.5	137.55	140.74	d	94.24		
	Perched Zone	WP2	SMW-06	10/15/2019	399,172.35	2,048,759.48	12.0 - 22.0	147.92	150.97	s	126.04	22.89	Downward (SMW-06 to SMW-06B)
	Surficial Aquifer		SMW-06B	10/15/2019	399,144.74	2,048,764.94	58.0 - 68.0	NA	150.32	d	103.15		
	Perched Zone	WP3	SMW-04A	10/15/2019	399,668.71	2,048,387.57	19.5 - 34.5	145.46	148.09	s	110.98	8.04	Downward (SMW-04A to SMW-04B)
	Surficial Aquifer		SMW-04B	10/15/2019	399,667.12	2,048,390.30	43.0 - 53.0	145.18	148.37	d	102.94		
	Perched Zone	WP4	SMW-05	10/15/2019	399,334.07	2,048,557.33	10.0 - 20.0	144.17	148.10	s	125.05	19.74	Downward (SMW-05 to SMW-05P)
	Surficial Aquifer		SMW-05P	10/15/2019	399,338.61	2,048,559.26	45.0 - 60.0	146.06	149.32	d	105.31		
	Perched Zone	WP5	MW-30	10/15/2019	397,340.79	2,050,776.09	10 - 15	144.95	147.67	s	133.01	27.44	Downward (MW-30 to PW-03)
	Surficial Aquifer		PW-03	10/15/2019	397,339.81	2,050,765.32	35 - 45	144.97	147.97	d	105.57		
	Perched Zone	WP6	NAF-08A	10/15/2019	398,097.99	2,050,886.62	5.0 - 15.0	145.54	148.82	s	138.54	42.55	Downward (NAF-08A to NAF-08B)
	Surficial Aquifer		NAF-08B	10/15/2019	398,095.64	2,050,879.94	43.5 - 53.5	145.62	148.86	d	95.99		
Perched / Black Creek	Perched Zone	WP7	MW-23	10/15/2019	396,233.43	2,051,061.52	9.5 - 14.5	145.17	148.34	s	133.93	59.38	Downward (MW-23 to BCA-02)
	Black Creek Aquifer		BCA-02	10/15/2019	396,242.32	2,051,062.21	92.0 - 102.0	145.20	148.42	d	74.55		
Surficial / Black Creek	Surficial Aquifer	WP8	PIW-9S	10/15/2019	396,148.11	2,052,251.10	24.75 - 29.75	76.80	79.53	s	49.06	6.98	Downward (PIW-9S to PIW-9D)
	Black Creek Aquifer		PIW-9D	10/15/2019	396,155.97	2,052,250.91	40.0 - 45.0	76.75	79.53	d	42.08		
	Surficial Aquifer	WP9	PIW-10S	10/15/2019	395,104.67	2,052,297.04	7.0 - 17.0	73.30	76.45	s	57.66	-3.62	Upward (PIW-10S to PIW-10DR)
	Black Creek Aquifer		PIW-10DR	10/15/2019	395,098.79	2,052,293.84	53.0 - 58.0	73.34	75.91	d	61.28		
	Surficial Aquifer	WP10	PIW-5S	10/15/2019	398,520.38	2,051,951.26	9.8 - 19.8	72.68	75.19	s	60.46	12.31	Downward (PIW-5S to PW-10R)
	Black Creek Aquifer		PW-10R	10/15/2019	398,516.12	2,051,936.59	57 - 67	73.28	75.90	d	48.15		
	Surficial Aquifer	WP11	PW-02	10/15/2019	399,779.06	2,050,649.47	50 - 60	143.76	146.43	s	90.05	2.67	Downward (PW-02 to BCA-01)
	Black Creek Aquifer		BCA-01	10/15/2019	399,780.06	2,050,662.22	91 - 101	143.26	146.30	d	87.38		
	Surficial Aquifer	WP12	SMW-11	10/15/2019	401,996.15	2,048,975.38	13 - 23	69.04	71.95	s	57.87	5.63	Downward (SMW-11 to PW-09)
	Black Creek Aquifer		PW-09	10/15/2019	401,997.39	2,048,980.54	44 - 54	74.76	77.49	d	52.24		
	Surficial Aquifer	WP13	MW-21D	10/15/2019	399,501.70	2,047,074.96	72 - 82	148.05	151.38	s	105.71	13.06	Downward (MW-21D to PW-12)
	Black Creek Aquifer		PW-12	10/15/2019	399,500.45	2,047,063.51	109 - 119	148.31	150.61	d	92.65		
	Surficial Aquifer	WP14	PW-05	10/15/2019	395,873.10	2,047,812.93	65 - 75	147.16	150.34	s	121.25	-0.30	Upward (BCA-04 to PW-05)
	Black Creek Aquifer		BCA-04	10/15/2019	395,877.67	2,047,823.11	94 - 104	147.07	150.24	d	121.55		
	Surficial Aquifer	WP15	PW-03	10/15/2019	397,339.81	2,050,765.32	35 - 45	144.97	147.97	s	105.57	18.71	Downward (PW-03 to PW-14)
	Black Creek Aquifer		PW-14	10/15/2019	397,325.65	2,050,766.36	136 - 146	145.13	147.97	d	86.86		
Floodplain / Surficial	Floodplain	WP16	PIW-1S	10/15/2019	400,540.61	2,051,792.59	7.8 - 17.8	50.78	54.20	s	32.59	-0.22	Upward (PIW-1S to PIW-1D)
	Surficial Aquifer		PIW-1D	10/15/2019	400,547.77	2,051,801.42	24.5 - 29.5	49.53	52.33	d	32.81		
Floodplain/ Black Creek	Floodplain	WP17	PIW-7S	10/15/2019	396,787.00	2,052,589.49	7.0 - 17.0	45.81	48.39	s	42.51	-0.18	Upward (PIW-7S to PIW-7D)
	Black Creek Aquifer		PIW-7D	10/15/2019	396,787.69	2,052,595.37	29.0 - 34.0	45.78	48.60	d	42.69		
	Floodplain	WP18	LTW-04	10/15/2019	397,280.24	2,052,583.60	12.0 - 27.0	49.34	51.86	s	42.55	-1.51	Upward (LTW-04 to PZ-22)
	Black Creek Aquifer		PZ-22	10/15/2019	397,272.80	2,052,584.04	36.0 - 46.0	49.03	51.81	d	44.06		
Other	Perched Zone	WP19	MW-25	10/15/2019	396,753.37	2,050,989.82	12.0 - 17.0	145.00	147.59	s	133.29	7.05	Downward (MW-25 to PZ-25)
	Perched Zone		PZ-25	10/15/2019	396,753.94	2,050,991.05	14.0 - 19.0	145.00	147.59	s	126.24		
	Old Outfall 002	WP20	Old Outfall 002	6/7/2019	--	--	--	40.25	--	s	40.63	1.03	Downward (Old Outfall 002 to PW-11)
	Black Creek Aquifer		PW-11	10/15/2019	394,354.00	2,052,227.00	53.0 - 63.0	70.19	73.26	d	39.60		

TABLE A 9-2
VERTICAL GRADIENTS
Chemours Fayetteville Works, North Carolina

	Aquifer	Well Pair ID	Well ID	Gauging Date	Northing (NAD 83)	Easting (NAD 83)	Screened Interval (ft bgs)	Ground Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Shallow/Deep	Groundwater Elevation (ft-NAVD88)	Vertical Gradient (feet/feet)	Direction
Offsite	Surficial Aquifer	WP21	Bladen-1S	10/15/2019	387,516.28	2,050,234.78	5 - 10	81.57	81.31	s	71.17	9.37	Downward (Bladen-1S to Bladen-1D)
	Black Creek Aquifer		Bladen-1D	10/15/2019	387,519.56	2,050,248.83	37 - 47	81.72	81.52	d	61.80		
	Surficial Aquifer	WP22	Bladen-2S	10/15/2019	368,818.78	2,042,884.35	10 - 20	143.01	142.62	s	135.63	13.28	Downward (Bladen-2S to Bladen-2D)
	Black Creek Aquifer		Bladen-2D	10/15/2019	368,824.41	2,042,879.78	70 - 75	143.11	142.85	d	122.35		
	Surficial Aquifer	WP23	Bladen-3S	10/15/2019	396,859.62	2,059,014.36	5 - 15	79.40	78.84	s	69.33	0.56	Downward (Bladen-3S to Bladen-3D)
	Black Creek Aquifer		Bladen-3D	10/15/2019	396,854.29	2,059,007.99	33.75 - 43.75	79.59	79.09	d	68.77		
	Surficial Aquifer	WP24	Bladen-4S	10/15/2019	363,260.51	2,087,638.88	4.75 - 14.75	64.65	64.26	s	58.42	-4.38	Upward (Bladen-4D to Bladen-4S)
	Black Creek Aquifer		Bladen-4D	10/15/2019	363,252.43	2,087,638.29	46.75 - 51.75	64.67	64.23	d	62.80		
	Surficial Aquifer	WP25	Cumberland-1S	10/15/2019	431,477.66	2,011,002.07	15 - 25	179.70	179.41	s	172.25	0.34	Downward (Cumberland-1S to Cumberland-1D)
	Black Creek Aquifer		Cumberland-1D	10/15/2019	431,477.66	2,011,002.07	40 - 50	179.58	179.18	d	171.91		
	Surficial Aquifer	WP26	Cumberland-2S	10/15/2019	450,054.48	2,074,001.35	7 - 17	133.87	133.61	s	127.70	-0.41	Upward (Cumberland-2D to Cumberland-2S)
	Black Creek Aquifer		Cumberland-2D	10/15/2019	450,054.48	2,074,001.35	47 - 57	134.06	133.79	d	128.11		
	Surficial Aquifer	WP27	Cumberland-3S	10/15/2019	423,131.53	2,060,380.35	9 - 14	83.87	83.62	s	74.89	-0.28	Upward (Cumberland-3D to Cumberland-3S)
	Black Creek Aquifer		Cumberland-3D	10/15/2019	423,131.53	2,060,380.35	22 - 27	83.59	83.34	d	75.17		
	Surficial Aquifer	WP28	Cumberland-4S	10/15/2019	413,160.26	2,078,233.75	10 - 20	124.15	123.93	s	116.42	6.45	Downward (Cumberland-4S to Cumberland-4D)
	Black Creek Aquifer		Cumberland-4D	10/15/2019	413,160.26	2,078,233.75	57 - 67	124.09	123.79	d	109.97		
	Surficial Aquifer	WP29	Cumberland-5S	10/15/2019	405,673.82	2,138,069.54	14 - 24	107.00	106.65	s	101.88	3.59	Downward (Cumberland-5S to Cumberland-5D)
	Black Creek Aquifer		Cumberland-5D	10/15/2019	405,673.82	2,138,069.54	52 - 57	107.02	106.67	d	98.29		
	Surficial Aquifer	WP30	Robeson-1S	10/15/2019	381,338.72	2,020,239.81	17 - 27	161.51	161.22	s	143.07	-4.12	Upward (Robeson-1D to Robeson-1S)
	Black Creek Aquifer		Robeson-1D	10/15/2019	381,338.72	2,020,239.81	42.75 - 52.75	161.23	160.93	d	147.19		

Notes:
1. Well pairs only include locations where depth to water level in both wells were synoptically measured in October 2019.
2. Calculated negative vertical gradient values represent potential for upward flow and positive vertical gradient values represent potential for downward flows.
3. "s" and "d" represent shallower and deeper well screens between the wells in each pair.
4. Direction indicates potential for upward or downward groundwater flow in each well pair.
5. Water column depth from Old Outfall 002 channel bottom presented. Measurements collected during volumetric flow measurements presented in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019).

NAD83 - North American Datum of 1983; horizontal control datum
NAVD88 - North American Vertical Datum of 1988; vertical control datum established in 1991
ft bgs - feet below ground surface
TOC - top of casing
-- data not available

TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**BCA-01**	**BCA-02**	**BCA-02**	**BCA-03R**
Field Sample ID	**GW0619-BCA-01**	**GW0619-BCA-02-D**	**GW0619-BCA-02**	**BCA-03R-091219**
Sample Date	**7/8/2019**	**7/9/2019**	**7/9/2019**	**9/12/2019**
QA/QC	**--**	**Field Duplicate**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**Liquid**
SDG	**320-52171-1**	**320-52149-1**	**320-52149-1**	**320-54314-1**
Lab Sample ID	**320-52171-4**	**320-52149-6**	**320-52149-5**	**320-54314-1**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**9,700**	**12,000 J**	**18,000 J**	**12,000**
PFMOAA	**70,000**	**110,000**	**120,000**	**330,000**
PFO2HxA	**22,000**	**26,000**	**29,000**	**69,000**
PFO3OA	**3,000**	**8,600**	**8,600**	**15,000**
PFO4DA	**79**	**3,300**	**4,000**	**1,200**
PFO5DA	<34	**610**	**590**	<170
PMPA	**5,900**	**6,700**	**7,300**	**29,000**
PEPA	**1,400**	**2,300**	**2,500**	**7,100**
PFESA-BP1	<27	**60**	**80**	**200**
PFESA-BP2	<30	**420**	**520**	**160**
Byproduct 4	**300**	**720**	**810**	**2,000**
Byproduct 5	**1,100**	**2,000**	**2,100**	**19,000**
Byproduct 6	<15	**18**	**19**	<77
NVHOS	**570**	**1,000**	**1,100**	**2,400**
EVE Acid	<24	**24**	**27**	<120
Hydro-EVE Acid	<28	**1,400**	**1,600**	**200**
R-EVE	**230**	**500**	**560**	**730**
PES	<46	<46	<46	<230
PFECA B	<60	<60	<60	<300
PFECA-G	<41	<41	<41	<200
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	<2
11Cl-PF3OUdS	--	--	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	<2
ADONA	--	--	--	<2.1
NaDONA	--	--	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	**2.9**	**2.8**	<2
Perfluorobutanoic Acid	**70**	**120**	**120**	**160**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	**3.8**	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**8.7**	**46**	**46**	**72**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	<2
Perfluorohexane Sulfonic Acid	<2	**5.2**	**5**	<2
Perfluorohexanoic Acid	**7.9**	**24**	**25**	**24**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	**11**	**10**	<2
Perfluorooctadecanoic acid	<2	<2	<2 UJ	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	**280**	**170**	**170**	**600**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	**2**	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	**32**	**30**	**5.8**
PFOS	<2	**4.2**	**3.4**	<2

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Perched Zone	Perched Zone	Perched Zone	Surficial Aquifer
Location ID	BCA-04	FTA-01	FTA-02	FTA-03	INSITU-01
Field Sample ID	GW0619-BCA-04	GW0619-FTA-01	GW0619-FTA-02	GW0619-FTA-03	GW0619-INSITU-01
Sample Date	7/9/2019	6/27/2019	6/27/2019	6/27/2019	6/20/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52149-1	320-51903-1	320-51903-1	320-51903-1	320-51662-1
Lab Sample ID	320-52149-4	320-51903-3	320-51903-1	320-51903-2	320-51662-3
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**6.9**	**520**	**22,000**	**13,000**	**580**
PFMOAA	<5	<210 UJ	**11,000 J**	**3,200 J**	**210 J**
PFO2HxA	<2	**390 J**	**8,800 J**	**6,500 J**	**460 J**
PFO3OA	<2	**58 J**	**2,000 J**	**780 J**	**36 J**
PFO4DA	<2	<79 UJ	**1,700 J**	**820 J**	**5.1 J**
PFO5DA	<2	**77 J**	**2,400 J**	**1,200 J**	<5 UJ
PMPA	**20**	**1,500 J**	**6,400 J**	**6,500 J**	**800 J**
PEPA	<20	**290 J**	**2,400 J**	**2,200 J**	**230 J**
PFESA-BP1	<2	<27 UJ	**1,300 J**	**550 J**	<2 UJ
PFESA-BP2	<2	**32 J**	**3,500 J**	**610 J**	**17 J**
Byproduct 4	<2	<160 UJ	**1,500 J**	**1,400 J**	**38 J**
Byproduct 5	<2	<58 UJ	**950 J**	**1,100 J**	<2 UJ
Byproduct 6	<2	<15 UJ	**19 J**	<15 UJ	<2 UJ
NVHOS	<2	<54 UJ	**450 J**	**170 J**	**5 J**
EVE Acid	<2	<24 UJ	**24,000 J**	**97 J**	<2 UJ
Hydro-EVE Acid	<2	<28 UJ	**1,100 J**	**150 J**	<2 UJ
R-EVE	<2	<70 UJ	**560 J**	**2,100 J**	**25 J**
PES	<2	<46 UJ	<46 UJ	<46 UJ	<2 UJ
PFECA B	<2	<60 UJ	<60 UJ	<60 UJ	<2 UJ
PFECA-G	<2	<41 UJ	<41 UJ	<41 UJ	<2 UJ
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	<2 UJ
6:2 Fluorotelomer sulfonate	<20	<20	**120**	<20	--
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
Perfluorobutane Sulfonic Acid	<2	<2	**2.5**	<2	<2
Perfluorobutanoic Acid	<2	**11**	**140**	**68**	--
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	--
Perfluorodecanoic Acid	<2	<2	**2.9**	**2.2**	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	--
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	**2.1**	<2	--
Perfluoroheptanoic Acid	<2	**5.1**	**87**	**21**	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	**2.1**	**21**	**5.1**	<2
Perfluorohexanoic Acid	<2	**4.5**	**110**	**15**	**4.1**
Perfluorononanesulfonic acid	<2	<2	<2	<2	--
Perfluorononanoic Acid	<2	<2	**17**	**11**	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2	--
Perfluorooctane Sulfonamide	<2	<2	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	**2.1**	<2	--
Perfluoropentanoic Acid	<2	**15**	**270**	**87**	**11**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2	<2
PFOA	<2	**6.7**	**83**	**51**	<2
PFOS	<2	**3.8**	**24**	**9.9**	<2

Notes:
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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits	Floodplain Deposits
Location ID	LTW-01	LTW-02	LTW-03	LTW-04
Field Sample ID	GW0619-LTW-01	GW0619-LTW-02	GW0619-LTW-03	GW0619-LTW-04
Sample Date	7/17/2019	7/17/2019	7/17/2019	7/17/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52454-1	320-52454-1	320-52454-1	320-52454-1
Lab Sample ID	320-52454-1	320-52454-2	320-52454-4	320-52454-6
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**19,000**	**9,500**	**12,000**	**16,000**
PFMOAA	**45,000**	**38,000**	**150,000**	**96,000**
PFO2HxA	**30,000**	**16,000**	**34,000**	**31,000**
PFO3OA	**6,100**	**3,000**	**4,900**	**5,400**
PFO4DA	**1,200**	**250**	**160**	**620**
PFO5DA	**210**	<34	<34	**36**
PMPA	**23,000**	**6,500**	**9,300**	**19,000**
PEPA	**8,300**	**2,100**	**2,400**	**7,100**
PFESA-BP1	<27	<27	<27	<27
PFESA-BP2	**260**	**30**	**33**	**160**
Byproduct 4	**1,200**	**490 J**	**600**	**2,000**
Byproduct 5	**970**	**1,200**	**2,600**	**4,300**
Byproduct 6	<15	<15	<15	<15
NVHOS	**490**	**370**	**1,000**	**1,600**
EVE Acid	<24	<24	<24	<24
Hydro-EVE Acid	**140**	**45**	**42**	**510**
R-EVE	**720**	**420**	**480**	**2,300**
PES	<46	<46	<46	<46
PFECA B	<60	<60	<60	<60
PFECA-G	<41	<41	<41	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<47	<45	<46	<46
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<28	<27	<27	<27
Perfluorobutane Sulfonic Acid	**2.4**	<2	<2	<2
Perfluorobutanoic Acid	**170**	**71**	**140**	**440**
Perfluorodecane Sulfonic Acid	<2.9	<2.7	<2.8	<2.8
Perfluorodecanoic Acid	<2.8	<2.7	<2.7	<2.7
Perfluorododecane sulfonic acid (PFDoS)	<4	<3.9	<4	<4
Perfluorododecanoic Acid	<4.9	<4.7	<4.9	<4.9
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**43**	**13**	**19**	**68**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	**4.6**	<2	<2	**2.9**
Perfluorohexanoic Acid	**28**	**10**	**15**	**44**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2.4	<2.3	<2.4	<2.4
Perfluorooctadecanoic acid	<4.1	<3.9	<4.1	<4.1
Perfluorooctane Sulfonamide	<3.1	<3	<3.1	<3.1
Perfluoropentane sulfonic acid (PFPeS)	<2.7	<2.6	<2.7	<2.7
Perfluoropentanoic Acid	**420**	**290**	**700**	**1,500**
Perfluorotetradecanoic Acid	<2.6	<2.5	<2.6	<2.6
Perfluorotridecanoic Acid	<12	<11	<12	<12
Perfluoroundecanoic Acid	<9.9	<9.4	<9.8	<9.7
PFOA	**37**	<7.3	<7.5	**8**
PFOS	**11**	<4.6	<4.8	<4.8

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Perched Zone	Surficial Aquifer	Surficial Aquifer
Location ID	LTW-05	MW-12S	MW-13D	MW-14D
Field Sample ID	GW0619-LTW-05	GW0619-MW-12S	GW0619-MW-13D	GW0619-MW-14D
Sample Date	7/16/2019	7/8/2019	7/11/2019	7/11/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52322-1	320-52171-1	320-52282-1	320-52282-1
Lab Sample ID	320-52322-4	320-52171-3	320-52282-5	320-52282-4
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**26,000 B**	**17,000**	**37,000 J**	**9,700**
PFMOAA	**240,000**	**6,600**	**180,000**	**180,000**
PFO2HxA	**68,000**	**9,600**	**66,000**	**35,000**
PFO3OA	**22,000**	**1,500**	**16,000**	**8,600**
PFO4DA	**2,900**	**980**	**5,200**	**3,000**
PFO5DA	<340	**980**	**400**	**700**
PMPA	<5,700	**10,000**	**21,000**	**7,900**
PEPA	<470	**3,900**	**5,900**	**3,100**
PFESA-BP1	<270	<27	<270	**660**
PFESA-BP2	**310**	**540**	**2,100**	**450**
Byproduct 4	**1,600**	**540**	**1,600**	<1,600
Byproduct 5	**3,100**	**63**	**3,000 J**	**2,300**
Byproduct 6	<150	<15	<150	<150
NVHOS	**1,900**	**140**	**1,500**	**1,700**
EVE Acid	<240	<24	<240	<240
Hydro-EVE Acid	**1,400**	**120**	**1,700**	**540**
R-EVE	**2,100**	**330**	**2,800**	<700
PES	<460	<46	<460	<460
PFECA B	<600	<60	<600	<600
PFECA-G	<410	<41	<410	<410
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	**38**
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	**330**	**130**	**590**	**160**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	**3.8**	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**360**	**30**	**270**	**120**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	**2**	**2.8**	**3.3**
Perfluorohexanoic Acid	**100**	**23**	**120**	**90**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	**16**	**5.8**	**11**
Perfluorooctadecanoic acid	<2	<2	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	**2,600**	**150**	**2,400**	**560**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	**6.9**	<2	<2
PFOA	**3.6**	**63**	**29**	**400**
PFOS	<2	**7.7**	<2	**7.3**

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	MW-15DRR	MW-16D	MW-17D	MW-18D
Field Sample ID	MW-15DRR-091119	GW0619-MW-16D	GW0619-MW-17D	GW0619-MW-18D
Sample Date	9/12/2019	7/15/2019	7/15/2019	7/15/2019
QA/QC	--	--	--	--
Sample Matrix	Liquid	LIQUID	LIQUID	LIQUID
SDG	320-54317-1	320-52288-1	320-52288-1	320-52288-1
Lab Sample ID	320-54317-3	320-52288-2	320-52288-3	320-52288-6
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**3,500**	**1,300**	**690**	**810**
PFMOAA	**31,000**	**500**	**260**	**58**
PFO2HxA	**6,300**	**430 J**	**490**	**110**
PFO3OA	**940**	**76 J**	**81 J**	**4.6 J**
PFO4DA	**320**	**39**	**14**	<2
PFO5DA	**130**	**12 J**	<2	<2
PMPA	**3,600**	**1,300**	**1,700**	**430**
PEPA	**1,000**	**330**	**510**	**100**
PFESA-BP1	**8,800**	**38**	<2	<2
PFESA-BP2	**1,200**	**22**	**20**	<2
Byproduct 4	**960**	**31**	**25**	**4.1**
Byproduct 5	**21,000**	**65**	<2.9	<2
Byproduct 6	**30**	<2	<2	<2
NVHOS	**320**	**12**	**7.4**	**2.9**
EVE Acid	**1,100**	<2	<2	<2
Hydro-EVE Acid	**370**	**12**	**5.9**	<2
R-EVE	**170**	**17**	**10**	**2.1**
PES	<46	<2.3	<2.3	<2
PFECA B	<60	<3	<3	<2
PFECA-G	<41	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	--	--	--
11Cl-PF3OUdS	<2	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	<2	--	--	--
ADONA	<2.1	--	--	--
NaDONA	<2.1	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<2	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<2	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	**8.2**	<2	<2	<2
Perfluorobutanoic Acid	**41**	**10**	**11**	**3.8**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	**3.3**	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**18**	**3.9**	**2.9**	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	--	--	--
Perfluorohexane Sulfonic Acid	**13**	<2	<2	<2
Perfluorohexanoic Acid	**18**	**4.2**	**4.1**	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	**5.8**	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2 UJ	<2 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	**85**	**13**	**16**	**9**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	**62**	**21**	**3.6**	<2
PFOS	**35**	<2	<2	<2

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Perched Zone	Surficial Aquifer	Surficial Aquifer
Location ID	MW-19D	MW-1S	MW-20D	MW-21D
Field Sample ID	GW0619-MW-19D	GW0619-MW-1S	GW0619-MW-20D	GW0619-MW-21D
Sample Date	7/9/2019	6/28/2019	7/9/2019	7/11/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	Liquid	LIQUID	LIQUID
SDG	320-52149-1	320-51904-1	320-52149-1	320-52282-1
Lab Sample ID	320-52149-1	320-51904-3	320-52149-2	320-52282-3
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**1,100**	**14,000**	**1,900**	**380**
PFMOAA	**720**	**21,000**	**14,000**	**110**
PFO2HxA	**830**	**11,000**	**3,300**	**290**
PFO3OA	**170**	**1,600**	**600**	**28**
PFO4DA	**78**	**1,300 J**	**120**	<2
PFO5DA	<2	**1,300**	<34	<2
PMPA	**1,100**	**9,700**	**2,700**	**860**
PEPA	**360**	**3,300**	**650**	**290**
PFESA-BP1	<2	**48**	<27	<2
PFESA-BP2	**15**	**1,000**	<30	**6.1**
Byproduct 4	**27**	**620**	<160	**8.3 J**
Byproduct 5	<2	**430**	**87**	<2
Byproduct 6	<2	<15	<15	<2
NVHOS	**12**	**210**	**110**	**6**
EVE Acid	<2	<24	<24	<2
Hydro-EVE Acid	**4.8**	**230**	<28	<2
R-EVE	**18**	**370**	**82**	**4.6**
PES	<2	<46	<46	<2
PFECA B	<2	<60	<60	<2
PFECA-G	<2	<41	<41	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	**11**	**140**	**21**	**7.1**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	**18**	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**4.7**	**50**	**11**	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	**2.3**	<2	<2
Perfluorohexanoic Acid	**5.6**	**26**	**13**	**2.4**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	**62**	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2 UJ
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	**21**	**290**	**44**	**11**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	**10**	<2	<2
PFOA	**21**	**94**	**68**	<2
PFOS	<2	**13**	<2	<2

Notes:
Bold - Analyte detected above associated reporting limit
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EPA - Environmental Protection Agency
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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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Perched Zone	Perched Zone	Perched Zone	Perched Zone
Location ID	MW-22D	MW-23	MW-24	MW-25	MW-27
Field Sample ID	GW0619-MW-22D	GW0619-MW-23	GW0619-MW-24	GW0619-MW-25	GW0619-MW-27
Sample Date	7/15/2019	6/25/2019	7/17/2019	6/25/2019	6/25/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52288-1	320-51746-1	320-52464-1	320-51746-1	320-51746-1
Lab Sample ID	320-52288-1	320-51746-2	320-52464-6	320-51746-11	320-51746-5
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**1,800**	**17,000**	**15,000**	**17,000**	**11,000**
PFMOAA	**290**	**790 J**	**720,000**	**2,700 J**	**240,000 J**
PFO2HxA	**580**	**2,200 J**	**130,000**	**8,100 J**	**62,000 J**
PFO3OA	**83 J**	**180 J**	**31,000**	**1,400 J**	**17,000 J**
PFO4DA	**49**	**250 J**	**7,400**	**1,400 J**	**4,500 J**
PFO5DA	**5.5 J**	**130 J**	**1,400**	**750 J**	**260 J**
PMPA	**1,400**	**4,400 J**	**8,100**	**25,000 J**	**7,800 J**
PEPA	**450**	**1,600 J**	**3,200**	**9,800 J**	**2,900 J**
PFESA-BP1	<2	<27 UJ	**1,400**	<27 UJ	<53 UJ
PFESA-BP2	**18**	**150 J**	**1,200**	**410 J**	**550 J**
Byproduct 4	**29**	**450 J**	**2,100**	**1,700 J**	**570 J**
Byproduct 5	<2.9	<58 UJ	**8,200**	**360 J**	**810 J**
Byproduct 6	<2	<15 UJ	<150	<15 UJ	**35 J**
NVHOS	**12**	<54 UJ	**7,100**	**180 J**	**3,100 J**
EVE Acid	<2	<24 UJ	<240	<24 UJ	<49 UJ
Hydro-EVE Acid	**11**	**41 J**	**420**	**190 J**	**240 J**
R-EVE	**17**	**290 J**	<700	**1,400 J**	**220 J**
PES	<2.3	<46 UJ	<460	<46 UJ	<92 UJ
PFECA B	<3	<60 UJ	<600	<60 UJ	<120 UJ
PFECA-G	<2	<41 UJ	<410	<41 UJ	<82 UJ
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorobutanoic Acid	**12**	**45**	**200**	**190**	**110**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**5.5**	**7.7**	**110**	**33**	**23**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	**2.4**	**2.8**
Perfluorohexanoic Acid	**5.7**	**6.5**	**21**	**15**	**16**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	**16**	**4.2**	<2
Perfluorooctadecanoic acid	<2 UJ	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2
Perfluoropentanoic Acid	**16**	**35**	**1,100**	**160**	**130**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	**6.1**	<2	<2
PFOA	**20**	**23**	**89**	**80**	**23**
PFOS	<2	<2	**2.2**	**4.2**	<2

Notes:
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SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Perched Zone	Perched Zone	Perched Zone
Location ID	**MW-28**	**MW-2S**	**MW-30**	**MW-7S**	**MW-9S**
Field Sample ID	**GW0619-MW-28**	**GW0619-MW-2S**	**GW0619-MW-30**	**GW0619-MW-7S**	**GW0619-MW-9S**
Sample Date	**6/26/2019**	**7/10/2019**	**7/2/2019**	**7/10/2019**	**6/25/2019**
QA/QC	**--**	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-51904-1**	**320-52165-1**	**320-52030-1**	**320-52165-1**	**320-51746-1**
Lab Sample ID	**320-51904-1**	**320-52165-1**	**320-52030-2**	**320-52165-2**	**320-51746-4**
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**2,900**	**17,000**	**18,000**	**17,000**	**5,600**
PFMOAA	<210 UJ	**28,000**	**3,300**	**4,600**	**1,600 J**
PFO2HxA	<81 UJ	**12,000**	**9,400**	**8,700**	**2,700 J**
PFO3OA	<58 UJ	**2,500**	**1,000 J**	**1,500**	**360 J**
PFO4DA	<79 UJ	**1,600**	**1,600 J**	**1,200**	**360 J**
PFO5DA	<34 UJ	**2,500**	**2,100 J**	**1,800**	**220 J**
PMPA	<570 UJ	**12,000**	**29,000**	**13,000**	**7,000 J**
PEPA	<47 UJ	**4,100**	**11,000**	**5,200**	**2,800 J**
PFESA-BP1	<27 UJ	**27 J**	<27	**58 J**	**38 J**
PFESA-BP2	<30 UJ	**2,100**	**480**	**830**	**200 J**
Byproduct 4	<160 UJ	**730 J**	**640**	**1,400**	**310 J**
Byproduct 5	<58 UJ	**320**	<58	**650**	<58 UJ
Byproduct 6	<15 UJ	**19**	<15	**17**	<15 UJ
NVHOS	<54 UJ	**290**	**95**	**260**	<54 UJ
EVE Acid	<24 UJ	<24	<24	<24	<24 UJ
Hydro-EVE Acid	<28 UJ	**450**	**150**	**270**	**53 J**
R-EVE	<70 UJ	**510**	**270**	**1,100**	**170 J**
PES	<46 UJ	<46	<46	<46	<46 UJ
PFECA B	<60 UJ	<60	<60	<60	<60 UJ
PFECA-G	<41 UJ	<41	<41	<41	<41 UJ
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorobutanoic Acid	**28**	**200**	**190**	**130**	**140**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	**9**	<2	**6.2**	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**7.3**	**77**	**33**	**43**	**10**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	**4.2**	<2	**2.8**	<2
Perfluorohexanoic Acid	**4.3**	**40**	**10**	**22**	**5.1**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	<2	**75**	**6.3**	**15**	**2.2**
Perfluorooctadecanoic acid	<2	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2
Perfluoropentanoic Acid	**35**	**340**	**160**	**160**	**61**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	**4.7**	<2	<2	<2
PFOA	**20**	**86**	**61**	**82**	**16**
PFOS	<2	**14**	**3**	**7.8**	**2.7**

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SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Perched Zone	Perched Zone	Perched Zone
Location ID	NAF-01	NAF-02	NAF-03	NAF-04	NAF-06
Field Sample ID	GW0619-NAF-01	GW0619-NAF-02	GW0619-NAF-03	GW0619-NAF-04	GW0619-NAF-06
Sample Date	7/10/2019	6/27/2019	6/27/2019	7/15/2019	7/11/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52165-1	320-51904-1	320-51904-1	320-52288-1	320-52282-1
Lab Sample ID	320-52165-3	320-51904-4	320-51904-2	320-52288-5	320-52282-1
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**22,000**	**160,000 J**	**54,000 J**	**270,000 J**	**100,000 J**
PFMOAA	**20,000**	**2,900,000 J**	**260,000 J**	**240,000**	**810,000**
PFO2HxA	**20,000**	**780,000 J**	**110,000 J**	**420,000**	**300,000**
PFO3OA	**5,000**	**240,000 J**	**39,000 J**	**110,000 J**	**120,000**
PFO4DA	**6,200**	**100,000 J**	**21,000 J**	**49,000**	**66,000**
PFO5DA	**6,000 J**	**36,000 J**	**19,000 J**	**32,000 J**	**45,000 J**
PMPA	**17,000**	**74,000 J**	**47,000 J**	**85,000**	**47,000**
PEPA	**7,400**	**32,000 J**	**23,000 J**	**28,000**	**20,000**
PFESA-BP1	**840**	**23,000 J**	**57,000 J**	**1,100,000**	**78,000 J**
PFESA-BP2	**2,900**	**17,000 J**	**9,200 J**	**110,000**	**29,000**
Byproduct 4	**2,700**	**21,000 J**	**6,000 J**	**100,000**	**6,800**
Byproduct 5	**1,700**	**210,000 J**	**37,000 J**	**1,200,000**	**92,000**
Byproduct 6	**70**	<770 UJ	**600 J**	**6,500**	**600**
NVHOS	**750**	**27,000 J**	**4,900 J**	**60,000**	**8,600**
EVE Acid	**480**	**7,300 J**	**6,800 J**	**340,000**	**6,100**
Hydro-EVE Acid	**820**	**14,000 J**	**3,300 J**	**160,000**	**5,500**
R-EVE	**5,600**	**12,000 J**	**4,400 J**	**36,000**	**4,700 J**
PES	<46	<2,300 UJ	<230 UJ	<920	<230
PFECA B	<60	<3,000 UJ	<300 UJ	<1,200	<300
PFECA-G	<41	<2,000 UJ	<200 UJ	<820	<200
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<170	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<450	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<170	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<160	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<270	<20
Perfluorobutane Sulfonic Acid	**2.4**	**2.4**	<2	<17	**2.3**
Perfluorobutanoic Acid	**490**	**3,300**	**1,100**	**4,800**	**1,400**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<27	<2
Perfluorodecanoic Acid	**6.8**	**48**	**18**	**77**	**20**
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<39	<2
Perfluorododecanoic Acid	**2.4**	**41**	**6.8**	<47	**4.3**
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<16	<2
Perfluoroheptanoic Acid	**73**	**1,000**	**140**	**7,700**	**480**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	**2.9**	**2.9**	<2	<15	**3.2**
Perfluorohexanoic Acid	**54**	**610**	**190**	**980**	**350**
Perfluorononanesulfonic acid	<2	<2	<2	<14	<2
Perfluorononanoic Acid	**49**	**400**	**47**	**1,900**	**270**
Perfluorooctadecanoic acid	<2	<2	<2	<39 UJ	<2 UJ
Perfluorooctane Sulfonamide	<2	<2	<2	<30	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<26	<2
Perfluoropentanoic Acid	**330**	**8,000**	**870**	**34,000 J**	**2,300**
Perfluorotetradecanoic Acid	<2	<2	<25	<25	<2
Perfluorotridecanoic Acid	<2	**44**	<2	<110	<2
Perfluoroundecanoic Acid	**10**	**170**	**46**	<94	**39**
PFOA	**130**	**260**	**140**	**540**	**230**
PFOS	**8.5**	**6.5**	**2.7**	<46	**12**

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Perched Zone	Perched Zone	Perched Zone
Location ID	NAF-07	NAF-08A	NAF-09	NAF-10	NAF-12
Field Sample ID	GW0619-NAF-07	GW0619-NAF-08A	GW0619-NAF-09	GW0619-NAF-10	GW0619-NAF-12
Sample Date	6/27/2019	7/15/2019	7/2/2019	7/3/2019	7/17/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-51903-1	320-52288-1	320-52028-1	320-52030-1	320-52464-1
Lab Sample ID	320-51903-6	320-52288-4	320-52028-4	320-52030-3	320-52464-4
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**37,000 J**	**37,000 J**	**42,000 J**	**23,000**	**120,000 J**
PFMOAA	**93,000 J**	**7,400**	**5,900**	**4,700**	**230,000**
PFO2HxA	**46,000 J**	**17,000**	**22,000**	**10,000**	**400,000**
PFO3OA	**14,000 J**	**5,100 J**	**9,400**	**1,600 J**	**160,000**
PFO4DA	**7,800 J**	**4,400**	**11,000**	**1,200**	**90,000**
PFO5DA	**4,300 J**	**2,700 J**	**2,200 J**	**1,000 J**	**59,000**
PMPA	**26,000 J**	**200,000**	**54,000**	**28,000**	**330,000**
PEPA	**10,000 J**	**110,000**	**35,000**	**9,800**	**31,000**
PFESA-BP1	**610 J**	**5,500**	**480**	**88**	**670,000**
PFESA-BP2	**2,000 J**	**2,100**	**1,100**	**740**	**230,000**
Byproduct 4	**5,100 J**	**3,000**	**1,100 J**	**2,700**	**200,000**
Byproduct 5	**32,000 J**	**21,000**	**1,300**	**410**	**1,100,000**
Byproduct 6	**63 J**	<77	**42**	**21**	**11,000**
NVHOS	**1,800 J**	**790**	**800**	**470**	**560,000**
EVE Acid	**270 J**	**4,400**	**52**	**67**	**710,000**
Hydro-EVE Acid	**850 J**	**2,600**	**520**	**480**	**380,000**
R-EVE	**2,400 J**	**1,800**	**860**	**1,600**	**120,000**
PES	<46 UJ	<230	<46	<46	<460
PFECA B	<60 UJ	<300	<60	<60	<600
PFECA-G	<41 UJ	<200	<41	<41	<410
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	**2.4**	<2	**10**	**4.6**	<2
Perfluorobutanoic Acid	**220**	**3,300**	**1,300**	**240**	**6,500 J**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorodecanoic Acid	**8.8**	**4.3**	**7**	**4.1**	**220**
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**110**	**200**	**120**	**46**	**9,300**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	**2.6**	**2.2**	**4.4**	<2	**5.3 J**
Perfluorohexanoic Acid	**60**	**89**	**85**	**24**	**1,700 J**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	**34**	**38**	**19**	**16**	**4,600 J**
Perfluorooctadecanoic acid	<2	<2 UJ	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2
Perfluoropentanoic Acid	**430**	**1,300**	**610**	**270**	**18,000 J**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	**3.8**	**3.8**	<2	<2	**42 J**
PFOA	**110**	**54**	**100**	**99**	**750 J**
PFOS	**12**	**7.6**	**10**	**11**	**42**

Notes:
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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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	PIW-10DR	PIW-10DR	PIW-10S
Field Sample ID	PIW-10DR-091019	GW4Q19-PIW-10DR-103019	GW0619-PIW-10S
Sample Date	9/10/2019	10/30/2019	7/22/2019
QA/QC	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID
SDG	320-54176-1	320-55860-1	320-52621-1
Lab Sample ID	320-54176-1	320-55860-2	320-52621-3
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	**19,000**	**15,000**	**4,400**
PFMOAA	**45,000**	**47,000**	**1,500**
PFO2HxA	**19,000**	**19,000**	**3,000**
PFO3OA	**6,000**	**6,500**	**520**
PFO4DA	**1,200 J**	**1,200**	**210**
PFO5DA	<34 UJ	<34	<34
PMPA	**9,100**	**10,000**	**5,700**
PEPA	**3,400**	**3,600**	**2,100**
PFESA-BP1	<27	<27	<27
PFESA-BP2	**160 J**	**200**	**150**
Byproduct 4	**1,500**	**1,200**	**190**
Byproduct 5	**6,400 J**	**5,600**	<58
Byproduct 6	**15**	**18**	<15
NVHOS	**510**	**490**	<54
EVE Acid	<24	<24	<24
Hydro-EVE Acid	**790 J**	**870**	<28
R-EVE	**1,200**	**980 J**	**130**
PES	<46	<46	<46
PFECA B	<60	<60	<60
PFECA-G	<41	<41	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<2	--	--
11Cl-PF3OUdS	<2	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	<24
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	--	--
6:2 Fluorotelomer sulfonate	**34**	--	<20
9Cl-PF3ONS	<2	--	--
ADONA	<2.1	--	--
NaDONA	<2.1	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	<2	--	--
N-methyl perfluoro-1-octanesulfonamide	<2	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	--	<20
Perfluorobutane Sulfonic Acid	<2	--	<2
Perfluorobutanoic Acid	**240**	--	**49**
Perfluorodecane Sulfonic Acid	<2	--	<2
Perfluorodecanoic Acid	<2	--	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	--	<2.1
Perfluorododecanoic Acid	<2	--	<2.6
Perfluoroheptane sulfonic acid (PFHpS)	<2	--	<2
Perfluoroheptanoic Acid	**120**	--	**7.9**
Perfluorohexadecanoic acid (PFHxDA)	<2	--	--
Perfluorohexane Sulfonic Acid	<2	--	<2
Perfluorohexanoic Acid	**56**	--	**6.6**
Perfluorononanesulfonic acid	<2	--	<2
Perfluorononanoic Acid	<2	--	<2
Perfluorooctadecanoic acid	<2	--	<2.1
Perfluorooctane Sulfonamide	<2	--	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	--	<2
Perfluoropentanoic Acid	**750**	--	**47**
Perfluorotetradecanoic Acid	<2	--	<2
Perfluorotridecanoic Acid	<2	--	<6.1
Perfluoroundecanoic Acid	<2	--	<5.1
PFOA	**2.9**	--	**12**
PFOS	<2	--	<2.5

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SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PIW-10S	PIW-1D	PIW-1D	PIW-1D
Field Sample ID	GW4Q19-PIW-10S-102919	GW0619-PIW-1D-D	GW0619-PIW-1D	GW4Q19-PIW-1D-102919
Sample Date	10/29/2019	7/19/2019	7/19/2019	10/29/2019
QA/QC	--	Field Duplicate	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55854-1	320-52621-1	320-52621-1	320-55854-1
Lab Sample ID	320-55854-9	320-52621-2	320-52621-1	320-55854-4
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**3,600**	**8,700 J**	**11,000 J**	**9,500**
PFMOAA	**1,800**	**15,000**	**14,000**	**14,000**
PFO2HxA	**2,400**	**9,700**	**9,700**	**8,200**
PFO3OA	**450**	**1,800**	**1,800**	**1,300**
PFO4DA	**160**	**320**	**300**	**260**
PFO5DA	**17**	<34	<34	<6.7
PMPA	**5,700**	**10,000**	**9,900**	**9,300**
PEPA	**1,900**	**3,600**	**3,600**	**2,900**
PFESA-BP1	<2.7	<27	<27	<5.3
PFESA-BP2	**93**	**51**	**48**	**52**
Byproduct 4	**200**	**480**	**420**	**400**
Byproduct 5	<5.8	<58	<58	<12
Byproduct 6	<2	<15	<15	<3.1
NVHOS	**22**	**160**	**150**	**130**
EVE Acid	<2.4	<24	<24	<4.9
Hydro-EVE Acid	**12**	**33**	**37**	**30**
R-EVE	**110**	**350 J**	**290 J**	**270**
PES	<4.6	<46	<46	<9.2
PFECA B	<6	<60	<60	<12
PFECA-G	<4.1	<41	<41	<8.2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<24	<46	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	--	<20	<20	--
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<27	--
Perfluorobutane Sulfonic Acid	--	<2	<2	--
Perfluorobutanoic Acid	--	**70**	**70**	--
Perfluorodecane Sulfonic Acid	--	<2	<2.8	--
Perfluorodecanoic Acid	--	<2	<2.7	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2.1	<4	--
Perfluorododecanoic Acid	--	<2.6	<4.9	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	--
Perfluoroheptanoic Acid	--	**14**	**14**	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	<2	<2	--
Perfluorohexanoic Acid	--	**11**	**11**	--
Perfluorononanesulfonic acid	--	<2	<2	--
Perfluorononanoic Acid	--	<2	<2.4	--
Perfluorooctadecanoic acid	--	<2.2	<4.1	--
Perfluorooctane Sulfonamide	--	<2	<3.1	--
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2.6	--
Perfluoropentanoic Acid	--	**140**	**140**	--
Perfluorotetradecanoic Acid	--	<2	<2.6	--
Perfluorotridecanoic Acid	--	<6.1	<11	--
Perfluoroundecanoic Acid	--	<5.1	<9.7	--
PFOA	--	**4.4**	<7.5	--
PFOS	--	<2.5	<4.8	--

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PIW-2D**	**PIW-2D**	**PIW-2D**	**PIW-3D**
Field Sample ID	**PIW-2D-091219**	**PIW-2D-091219-Z**	**GW4Q19-PIW-2D-110119**	**GW0619-PIW-3D**
Sample Date	**9/12/2019**	**9/12/2019**	**11/1/2019**	**7/18/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-54314-1**	**320-54316-1**	**320-56112-1**	**320-52464-1**
Lab Sample ID	**320-54314-2**	**320-54316-1**	**320-56112-3**	**320-52464-2**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**1,800**	**1,800**	**1,600**	**9,600**
PFMOAA	**14,000**	**13,000**	**19,000**	**5,400**
PFO2HxA	**2,900**	**3,000**	**3,500**	**9,100**
PFO3OA	**100**	**100**	**140**	**1,700**
PFO4DA	<79	<79	<16	**780**
PFO5DA	<34	<34	<6.7	**95**
PMPA	**1,300**	**1,200**	**1,100**	**12,000**
PEPA	**92**	**89**	**76**	**4,400**
PFESA-BP1	<27	<27	<5.3	<2.7
PFESA-BP2	<30	<30	<6.1	**150**
Byproduct 4	<160	<160	**44**	**500**
Byproduct 5	<58	<58	**16**	<5.8
Byproduct 6	<15	<15	<3.1	**5.1**
NVHOS	**110 J**	**130**	**140**	**83**
EVE Acid	<24	<24	<4.9	<2.4
Hydro-EVE Acid	<28	<28	<5.6	**52**
R-EVE	<70	<70	**40 J**	**290**
PES	<46	<46	<9.2	<4.6
PFECA B	<60	<60	<12	<6
PFECA-G	<41	<41	<8.2	<4.1
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	--	--
11Cl-PF3OUdS	<3.2	<3.2	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<52	<52	--	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<8.5	<8.5	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<14	<14	--	--
6:2 Fluorotelomer sulfonate	<20	<20	--	<20
9Cl-PF3ONS	<2.4	<2.4	--	--
ADONA	<2.1	<2.1	--	--
NaDONA	<2.1	<2.1	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	<8.7	<8.7	--	--
N-methyl perfluoro-1-octanesulfonamide	<4.3	<4.3	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<31	<31	--	<20
Perfluorobutane Sulfonic Acid	<2	<2	--	**2.2**
Perfluorobutanoic Acid	**18**	**19**	--	**84**
Perfluorodecane Sulfonic Acid	<3.2	<3.2	--	<2
Perfluorodecanoic Acid	<3.1	<3.1	--	<2
Perfluorododecane sulfonic acid (PFDoS)	<4.5	<4.5	--	<2
Perfluorododecanoic Acid	<5.5	<5.5	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	<2
Perfluoroheptanoic Acid	<2.5	<2.5	--	**30**
Perfluorohexadecanoic acid (PFHxDA)	<8.9	<8.9	--	--
Perfluorohexane Sulfonic Acid	**3**	**3.5**	--	**3.1**
Perfluorohexanoic Acid	<5.8	<5.8	--	**21**
Perfluorononanesulfonic acid	<2	<2	--	<2
Perfluorononanoic Acid	<2.7	<2.7	--	**4.2**
Perfluorooctadecanoic acid	<4.6	<4.6	--	<2
Perfluorooctane Sulfonamide	<3.5	<3.5	--	<2
Perfluoropentane sulfonic acid (PFPeS)	<3	<3	--	<2
Perfluoropentanoic Acid	**70**	**76**	--	**130**
Perfluorotetradecanoic Acid	<2.9	**3.1**	--	<2
Perfluorotridecanoic Acid	<13	<13	--	<2
Perfluoroundecanoic Acid	<11	<11	--	<2
PFOA	<8.5	<8.5	--	**35**
PFOS	<5.4	<5.4	--	**9.5**

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PIW-3D	PIW-4D	PIW-4D
Field Sample ID	GW4Q19-PIW-3D-102819	PIW-04D-091119	PIW-4D-091119-Z
Sample Date	10/28/2019	9/11/2019	9/11/2019
QA/QC	--	--	--
Sample Matrix	LIQUID	Liquid	Liquid
SDG	320-55757-1	320-54317-1	320-54319-1
Lab Sample ID	320-55757-6	320-54317-2	320-54319-2
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	**11,000**	**6.7**	**6.7**
PFMOAA	**5,200**	<210	<210
PFO2HxA	**7,900**	<81	<81
PFO3OA	**1,400**	<58	<58
PFO4DA	**700**	<79	<79
PFO5DA	**97**	<34	<34
PMPA	**10,000**	<570	<570
PEPA	**3,600**	<47	<47
PFESA-BP1	<5.3	<27	<27
PFESA-BP2	**140**	<30	<30
Byproduct 4	**390**	<160	<160
Byproduct 5	<12	<58	<58
Byproduct 6	**5.2**	<15	<15
NVHOS	**72**	<54	<54
EVE Acid	<4.9	<24	<24
Hydro-EVE Acid	**48**	<28	<28
R-EVE	**220 J**	<70	<70
PES	<9.2	<46	<46
PFECA B	<12	<60	<60
PFECA-G	<8.2	<41	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<2	<2
11Cl-PF3OUdS	--	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	<4
6:2 Fluorotelomer sulfonate	--	<20	<20
9Cl-PF3ONS	--	<2	<2
ADONA	--	<2.1	<2.1
NaDONA	--	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	<2	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20
Perfluorobutane Sulfonic Acid	--	<2	<2
Perfluorobutanoic Acid	--	<2	<2
Perfluorodecane Sulfonic Acid	--	<2	<2
Perfluorodecanoic Acid	--	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2
Perfluorododecanoic Acid	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2
Perfluoroheptanoic Acid	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	<2	<2
Perfluorohexane Sulfonic Acid	--	<2	<2
Perfluorohexanoic Acid	--	<2	<2
Perfluorononanesulfonic acid	--	<2	<2
Perfluorononanoic Acid	--	<2	<2
Perfluorooctadecanoic acid	--	<2	<2
Perfluorooctane Sulfonamide	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2
Perfluoropentanoic Acid	--	<2	<2
Perfluorotetradecanoic Acid	--	<2	<2
Perfluorotridecanoic Acid	--	<2	<2
Perfluoroundecanoic Acid	--	<2	<2
PFOA	--	<2	<2
PFOS	--	<2	<2

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TABLE 9-3
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Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	PIW-4D	PIW-4D	PIW-5S
Field Sample ID	GW4Q19-PIW-4D-103119-Dup	GW4Q19-PIW-4D-103119	GW0619-PIW-5S
Sample Date	10/31/2019	10/31/2019	7/19/2019
QA/QC	Field Duplicate	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID
SDG	320-55909-1	320-55909-1	320-52624-1
Lab Sample ID	320-55909-2	320-55909-1	320-52624-5
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	**2.9 B**	**3.6 B**	**79,000 J**
PFMOAA	<5	<5	**35,000**
PFO2HxA	**2.1**	**2.3**	**38,000**
PFO3OA	<2	<2	**10,000**
PFO4DA	<2	<2	**8,700**
PFO5DA	<2	<2	**4,800**
PMPA	<10	<10	**100,000**
PEPA	<20	<20	**44,000**
PFESA-BP1	<2	<2	**4,300**
PFESA-BP2	<2	<2	**1,300**
Byproduct 4	<2	<2	**4,700**
Byproduct 5	<2	<2	**16,000**
Byproduct 6	<2	<2	**65**
NVHOS	<2	<2	**770**
EVE Acid	<2	<2	**1,800**
Hydro-EVE Acid	<2	<2	**1,600**
R-EVE	<2 UJ	<2 UJ	**3,000**
PES	<2	<2	<46
PFECA B	<2	<2	<60
PFECA-G	<2	<2	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<180
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<470
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	<180
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<170
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<280
Perfluorobutane Sulfonic Acid	--	--	<18
Perfluorobutanoic Acid	--	--	**1,100**
Perfluorodecane Sulfonic Acid	--	--	<29
Perfluorodecanoic Acid	--	--	<28
Perfluorododecane sulfonic acid (PFDoS)	--	--	<41
Perfluorododecanoic Acid	--	--	<50
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<17
Perfluoroheptanoic Acid	--	--	**140**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	<15
Perfluorohexanoic Acid	--	--	**58**
Perfluorononanesulfonic acid	--	--	<14
Perfluorononanoic Acid	--	--	<24
Perfluorooctadecanoic acid	--	--	<42
Perfluorooctane Sulfonamide	--	--	<32
Perfluoropentane sulfonic acid (PFPeS)	--	--	<27
Perfluoropentanoic Acid	--	--	**910**
Perfluorotetradecanoic Acid	--	--	<26
Perfluorotridecanoic Acid	--	--	<120
Perfluoroundecanoic Acid	--	--	<99
PFOA	--	--	<77
PFOS	--	--	<49

Notes:
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SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer
Location ID	PIW-5S	PIW-6S	PIW-6S	PIW-7D
Field Sample ID	GW4Q19-PIW-5S-102919	GW0619-PIW-6S	GW4Q19-PIW-6S-102919	GW0619-PIW-7D
Sample Date	10/29/2019	7/17/2019	10/29/2019	7/19/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55854-1	320-52454-1	320-55854-1	320-52624-1
Lab Sample ID	320-55854-2	320-52454-5	320-55854-3	320-52624-3
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**41,000**	**13,000**	**10,000**	**11,000**
PFMOAA	**61,000**	**160,000**	**190,000**	**150,000**
PFO2HxA	**33,000**	**35,000**	**33,000**	**27,000**
PFO3OA	**7,600**	**5,000**	**4,400**	**2,400**
PFO4DA	**4,700**	**150**	<160	**570**
PFO5DA	**1,900**	<34	<67	<34
PMPA	**76,000**	**8,700**	**9,000**	**3,500**
PEPA	**31,000**	**2,300**	**2,300**	**530**
PFESA-BP1	**1,300**	<27	<53	<27
PFESA-BP2	**580**	**31**	<61	**53**
Byproduct 4	**2,900**	**470**	**720**	**280**
Byproduct 5	**5,000**	**1,700**	**1,900**	**690**
Byproduct 6	**41**	<15	<31	<15
NVHOS	**680**	**1,100**	**1,100**	**810**
EVE Acid	**570**	<24	<49	<24
Hydro-EVE Acid	**820**	**43**	<56	**170 J**
R-EVE	**2,700**	**490**	**610**	**350 J**
PES	<46	<46	<92	<46
PFECA B	<60	<60	<120	<60
PFECA-G	<41	<41	<82	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<47	--	<44
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	--	<20	--	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<28	--	<26
Perfluorobutane Sulfonic Acid	--	<2	--	<2
Perfluorobutanoic Acid	--	**150**	--	**100**
Perfluorodecane Sulfonic Acid	--	<2.9	--	<2.7
Perfluorodecanoic Acid	--	<2.8	--	<2.6
Perfluorododecane sulfonic acid (PFDoS)	--	<4.1	--	<3.8
Perfluorododecanoic Acid	--	<5	--	<4.6
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	--	<2
Perfluoroheptanoic Acid	--	**18**	--	**41**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	<2	--	<2
Perfluorohexanoic Acid	--	**16**	--	**14**
Perfluorononanesulfonic acid	--	<2	--	<2
Perfluorononanoic Acid	--	<2.4	--	<2.3
Perfluorooctadecanoic acid	--	<4.2	--	<3.9
Perfluorooctane Sulfonamide	--	<3.2	--	<2.9
Perfluoropentane sulfonic acid (PFPeS)	--	<2.7	--	<2.5
Perfluoropentanoic Acid	--	**830**	--	**820**
Perfluorotetradecanoic Acid	--	<2.6	--	<2.4
Perfluorotridecanoic Acid	--	<12	--	<11
Perfluoroundecanoic Acid	--	<9.9	--	<9.2
PFOA	--	<7.7	--	<7.1
PFOS	--	<4.9	--	<4.5

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer
Location ID	PIW-7D	PIW-7S	PIW-7S	PIW-8D
Field Sample ID	GW4Q19-PIW-7D-103019	GW0619-PIW-7S	GW4Q19-PIW-7S-103019	GW0619-PIW-8D
Sample Date	10/30/2019	7/19/2019	10/30/2019	7/19/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55860-1	320-52624-1	320-55860-1	320-52624-1
Lab Sample ID	320-55860-10	320-52624-4	320-55860-1	320-52624-2
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**9,400**	**1,400**	**6,600**	**54,000 J**
PFMOAA	**170,000**	**12,000**	**31,000**	**400,000**
PFO2HxA	**27,000**	**2,400**	**8,000**	**140,000**
PFO3OA	**2,900**	**180**	**1,500**	**51,000**
PFO4DA	**590**	<79	**96**	**7,200**
PFO5DA	<34	<34	<34	<340
PMPA	**3,300**	**1,100**	**3,800**	**15,000**
PEPA	**510**	<47	**1,200**	**4,500**
PFESA-BP1	<27	<27	<27	<270
PFESA-BP2	**67**	<30	**77**	**770**
Byproduct 4	**300**	<160	**740**	**4,400**
Byproduct 5	**560**	<58	<58	**10,000**
Byproduct 6	<15	<15	<15	<150
NVHOS	**830**	**88**	**350**	**3,600**
EVE Acid	<24	<24	<24	<240
Hydro-EVE Acid	**200**	<28	**110**	**3,700**
R-EVE	**380**	**130**	**810**	**4,500**
PES	<46	<46	<46	<460
PFECA B	<60	<60	<60	<600
PFECA-G	<41	<41	<41	<410
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	--	<38
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	--	<98
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	--	<20	--	<38
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<36
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<58
Perfluorobutane Sulfonic Acid	--	<2	--	<3.8
Perfluorobutanoic Acid	--	**26**	--	**930**
Perfluorodecane Sulfonic Acid	--	<2	--	<6
Perfluorodecanoic Acid	--	<2	--	<5.8
Perfluorododecane sulfonic acid (PFDoS)	--	<2	--	<8.5
Perfluorododecanoic Acid	--	<2	--	<10
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	--	<3.6
Perfluoroheptanoic Acid	--	<2	--	**920**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	<2	--	<3.2
Perfluorohexanoic Acid	--	<2	--	**290**
Perfluorononanesulfonic acid	--	<2	--	<3
Perfluorononanoic Acid	--	<2	--	<5.1
Perfluorooctadecanoic acid	--	<2	--	<8.7
Perfluorooctane Sulfonamide	--	<2	--	<6.6
Perfluoropentane sulfonic acid (PFPeS)	--	<2	--	<5.6
Perfluoropentanoic Acid	--	**130**	--	**3,900**
Perfluorotetradecanoic Acid	--	<2	--	<5.5
Perfluorotridecanoic Acid	--	<2	--	<24
Perfluoroundecanoic Acid	--	<2	--	<21
PFOA	--	<2	--	<16
PFOS	--	<2	--	<10

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	PIW-8D	PIW-9D	PIW-9D	PIW-9S
Field Sample ID	GW4Q19-PIW-8D-103019	GW0619-PIW-9D	GW4Q19-PIW-9D-102319	GW0619-PIW-9S
Sample Date	10/30/2019	7/23/2019	10/23/2019	7/18/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55860-1	320-52722-1	320-55683-1	320-52464-1
Lab Sample ID	320-55860-9	320-52722-1	320-55683-3	320-52464-1
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**65,000**	**33,000**	**20,000**	**7,300**
PFMOAA	**400,000**	**150,000**	**200,000**	**150,000**
PFO2HxA	**110,000**	**41,000**	**40,000**	**34,000**
PFO3OA	**45,000**	**12,000**	**11,000**	**8,400**
PFO4DA	**6,700**	**3,100**	**2,300**	**1,500**
PFO5DA	<130	**84**	<170	<34
PMPA	**15,000**	**9,900**	**8,500**	**7,500**
PEPA	**4,200**	**3,400**	**3,000**	**2,700**
PFESA-BP1	<110	**29**	<130	<27
PFESA-BP2	**860**	**370**	**330**	**170**
Byproduct 4	**3,300 J**	**1,900 J**	<790	**800**
Byproduct 5	**7,200**	**2,700**	**1,900 J**	**800**
Byproduct 6	**120**	**18**	<77	<15
NVHOS	**3,200**	**1,700**	**1,700**	**1,500**
EVE Acid	<97	<24	<120	<24
Hydro-EVE Acid	**3,900**	**1,600**	**1,600**	**690**
R-EVE	**4,900**	**1,700**	**630**	**650**
PES	<180	<46	<230	<46
PFECA B	<240	<60	<300	<60
PFECA-G	<160	<41	<200	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	--	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	--	<20	--	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<20
Perfluorobutane Sulfonic Acid	--	<2	--	<2
Perfluorobutanoic Acid	--	**240**	--	**120**
Perfluorodecane Sulfonic Acid	--	<2	--	<2
Perfluorodecanoic Acid	--	<2	--	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2	--	<2
Perfluorododecanoic Acid	--	<2	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	--	<2
Perfluoroheptanoic Acid	--	**100**	--	**43**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	<2	--	<2
Perfluorohexanoic Acid	--	**81**	--	**23**
Perfluorononanesulfonic acid	--	<2	--	<2
Perfluorononanoic Acid	--	<2	--	<2
Perfluorooctadecanoic acid	--	<2 UJ	--	<2
Perfluorooctane Sulfonamide	--	<2	--	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	--	<2
Perfluoropentanoic Acid	--	**790**	--	**250**
Perfluorotetradecanoic Acid	--	<2	--	<2
Perfluorotridecanoic Acid	--	<2	--	<2
Perfluoroundecanoic Acid	--	<2	--	<2
PFOA	--	**17**	--	**13**
PFOS	--	<2	--	<2

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Perched Zone	Perched Zone	Perched Zone
Location ID	PIW-9S	PW-01	PW-01	PW-01
Field Sample ID	GW4Q19-PIW-9S-102319	PW-01-090919-D	PW-01-090919	GW4Q19-PW-01-101819
Sample Date	10/23/2019	9/9/2019	9/9/2019	10/18/2019
QA/QC	--	Field Duplicate	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-55683-1	320-54217-1	320-54217-1	320-55686-1
Lab Sample ID	320-55683-6	320-54217-2	320-54217-1	320-55686-1
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**9,700**	**7,500**	**8,300**	**7,500**
PFMOAA	**190,000**	**23,000**	**25,000**	**23,000**
PFO2HxA	**35,000**	**9,400**	**10,000**	**10,000**
PFO3OA	**8,300**	**1,900**	**2,000 J**	**2,300**
PFO4DA	**1,400**	**960**	**1,000 J**	**1,200**
PFO5DA	<34	**540**	**660 J**	**930**
PMPA	**7,500**	**3,600**	**4,100 J**	**3,800**
PEPA	**2,500**	**1,200**	**1,300**	**1,300**
PFESA-BP1	<27	**410**	**490**	**480**
PFESA-BP2	**200**	**400**	**490 J**	**530**
Byproduct 4	**960**	**470**	**610**	**410**
Byproduct 5	**1,000**	**880 J**	**900 J**	**700 J**
Byproduct 6	<15	<15	<15	**13**
NVHOS	**1,700**	**270**	**280 J**	**270**
EVE Acid	<24	**100**	**110 J**	**95**
Hydro-EVE Acid	**740**	**110**	**130 J**	**120**
R-EVE	**900**	**260**	**310**	**260**
PES	<46	<46	<46	<9.2
PFECA B	<60	<60	<60	<12
PFECA-G	<41	<41	<41	<8.2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	<2	<2	--
11Cl-PF3OUdS	--	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	<4	--
6:2 Fluorotelomer sulfonate	--	<20	<20	--
9Cl-PF3ONS	--	<2	<2	--
ADONA	--	<2.1	<2.1	--
NaDONA	--	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
Perfluorobutane Sulfonic Acid	--	<2	<2	--
Perfluorobutanoic Acid	--	**58**	**61**	--
Perfluorodecane Sulfonic Acid	--	<2	<2	--
Perfluorodecanoic Acid	--	<2	<2	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2	--
Perfluorododecanoic Acid	--	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	--
Perfluoroheptanoic Acid	--	**25**	**25**	--
Perfluorohexadecanoic acid (PFHxDA)	--	<2	<2	--
Perfluorohexane Sulfonic Acid	--	<2	<2	--
Perfluorohexanoic Acid	--	**12**	**13**	--
Perfluorononanesulfonic acid	--	<2	<2	--
Perfluorononanoic Acid	--	**6.4**	**6.4**	--
Perfluorooctadecanoic acid	--	<2	<2	--
Perfluorooctane Sulfonamide	--	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2	--
Perfluoropentanoic Acid	--	**100**	**110**	--
Perfluorotetradecanoic Acid	--	<2	<2	--
Perfluorotridecanoic Acid	--	<2	<2	--
Perfluoroundecanoic Acid	--	<2	<2	--
PFOA	--	**100**	**95**	--
PFOS	--	**6.4**	**6.6**	--

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ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PW-02	PW-02	PW-02	PW-03
Field Sample ID	PW-02-091119	PW-02-091119-Z	GW4Q19-PW-02-110419	PW-03-091119
Sample Date	9/11/2019	9/11/2019	11/4/2019	9/11/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-54274-1	320-54278-1	320-56112-1	320-54317-1
Lab Sample ID	320-54274-1	320-54278-1	320-56112-7	320-54317-1
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**7,400**	**8,100**	**7,800**	**78,000**
PFMOAA	**9,500,000**	**9,900,000**	**89,000**	**5,900**
PFO2HxA	**2,800,000**	**3,000,000**	**22,000**	**18,000**
PFO3OA	**750,000**	**800,000**	**6,200**	**5,800**
PFO4DA	**250,000**	**270,000**	**2,300**	**1,800**
PFO5DA	**90,000**	**85,000**	**950**	**46**
PMPA	**470,000**	**520,000**	**4,200**	**130,000**
PEPA	**180,000**	**180,000**	**1,500**	**76,000**
PFESA-BP1	**35,000**	**39,000**	**480**	**130**
PFESA-BP2	**43,000**	**40,000**	**550**	**750**
Byproduct 4	**75,000**	**78,000**	**740**	**11,000**
Byproduct 5	**250,000**	**270,000**	**3,000**	**47,000**
Byproduct 6	**1,900**	**2,600**	**20**	**93**
NVHOS	**110,000**	**110,000**	**970**	**8,000**
EVE Acid	**2,200**	**3,600**	**25**	**520**
Hydro-EVE Acid	**18,000**	**19,000**	**220**	**4,900**
R-EVE	**36,000**	**33,000**	**580**	**12,000**
PES	<2,300	<4,600	<46	<46
PFECA B	<3,000	<6,000	<60	<60
PFECA-G	<2,000	<4,100	<41	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	--	<2
11Cl-PF3OUdS	<2	<2	--	<3.2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	--	<52
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	--	<8.5
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	--	<14
6:2 Fluorotelomer sulfonate	<20	<20	--	<20
9Cl-PF3ONS	<2	<2	--	<2.4
ADONA	<2.1	<2.1	--	<2.1
NaDONA	<2.1	<2.1	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	<2	<2	--	<8.7
N-methyl perfluoro-1-octanesulfonamide	<2	<2	--	<4.3
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<31
Perfluorobutane Sulfonic Acid	<2	<2	--	<2
Perfluorobutanoic Acid	**68**	**82**	--	**5,400**
Perfluorodecane Sulfonic Acid	<2	<2	--	<3.2
Perfluorodecanoic Acid	<2	<2	--	<3.1
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	--	<4.5
Perfluorododecanoic Acid	<2	<2	--	<5.5
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	<2
Perfluoroheptanoic Acid	**26**	**31**	--	**310**
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	--	<8.9
Perfluorohexane Sulfonic Acid	<2	<2	--	**3.3**
Perfluorohexanoic Acid	**13**	**16**	--	**150**
Perfluorononanesulfonic acid	<2	<2	--	<2
Perfluorononanoic Acid	**4.7**	**5.4**	--	<2.7
Perfluorooctadecanoic acid	<2	<2	--	<4.6
Perfluorooctane Sulfonamide	<2	<2	--	<3.5
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	--	<3
Perfluoropentanoic Acid	**120**	**140**	--	**3,700**
Perfluorotetradecanoic Acid	<2	<2	--	<2.9
Perfluorotridecanoic Acid	<2	<2	--	<13
Perfluoroundecanoic Acid	<2	<2	--	<11
PFOA	**85**	**100**	--	**16**
PFOS	**3.6**	**2.3**	--	<5.4

Notes:
Bold - Analyte detected above associated reporting limit
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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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PW-03	PW-03	PW-04	PW-04
Field Sample ID	PW-03-091119-Z	GW4Q19-PW-03-110619	PW-04-091119	PW-04-091119-Z
Sample Date	9/11/2019	11/6/2019	9/11/2019	9/11/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-54319-1	320-56117-1	320-54294-1	320-54294-1
Lab Sample ID	320-54319-1	320-56117-6	320-54294-4	320-54294-5
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**54,000**	**61,000**	**940**	**880**
PFMOAA	**5,100**	**6,300**	**270**	**320**
PFO2HxA	**16,000**	**18,000**	**770**	**870**
PFO3OA	**5,200**	**5,700**	**280**	**310**
PFO4DA	**1,400**	**1,700**	**66**	**68**
PFO5DA	<34	<34	<2	<2
PMPA	**120,000**	**150,000**	**710**	**790**
PEPA	**69,000**	**76,000**	**310**	**340**
PFESA-BP1	**93**	**94**	<2	<2
PFESA-BP2	**460**	**800**	**8.4**	**4.3**
Byproduct 4	**9,600**	**10,000**	**120**	**160 J**
Byproduct 5	**42,000**	**37,000**	**4.4**	**4.4 J**
Byproduct 6	**69**	**110**	<2	<2
NVHOS	**7,100**	**8,400**	**6.7**	**8**
EVE Acid	**440**	**500**	<2	<2
Hydro-EVE Acid	**3,600**	**5,300**	**5.9**	**5**
R-EVE	**11,000**	**12,000**	**47**	**64**
PES	<46	<46	<2	<2
PFECA B	<60	<60	<2	<2
PFECA-G	<41	<41	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	--	<2	<2
11Cl-PF3OUdS	<3.2	--	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<52	--	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<8.5 UJ	--	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<14 UJ	--	<4	<4
6:2 Fluorotelomer sulfonate	<20	--	<20	<20
9Cl-PF3ONS	<2.4	--	<2	<2
ADONA	<2.1	--	<2.1	<2.1
NaDONA	<2.1	--	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<8.7	--	<2 UJ	<2
N-methyl perfluoro-1-octanesulfonamide	<4.3	--	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<31	--	<20	<20
Perfluorobutane Sulfonic Acid	<2	--	<2	<2
Perfluorobutanoic Acid	**4,700**	--	**11**	**11**
Perfluorodecane Sulfonic Acid	<3.2	--	<2	<2
Perfluorodecanoic Acid	<3.1	--	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<4.5	--	<2	<2
Perfluorododecanoic Acid	<5.5	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	--	<2	<2
Perfluoroheptanoic Acid	**260**	--	**5.1**	**6.1**
Perfluorohexadecanoic acid (PFHxDA)	<8.9	--	<2	<2
Perfluorohexane Sulfonic Acid	**3.6**	--	<2	<2
Perfluorohexanoic Acid	**120**	--	**3.5**	**3.7**
Perfluorononanesulfonic acid	<2	--	<2	<2
Perfluorononanoic Acid	<2.7	--	<2	<2
Perfluorooctadecanoic acid	<4.6	--	<2	<2
Perfluorooctane Sulfonamide	<3.5	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<3	--	<2	<2
Perfluoropentanoic Acid	**3,400**	--	**17**	**17**
Perfluorotetradecanoic Acid	<2.9	--	<2	<2
Perfluorotridecanoic Acid	<13	--	<2	<2
Perfluoroundecanoic Acid	<11	--	<2	<2
PFOA	**13**	--	<2	<2
PFOS	<5.4	--	<2	<2

Notes:
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	**PW-04**	**PW-05**	**PW-05**	**PW-06**
Field Sample ID	**GW4Q19-PW-04-103019**	**PW-05-090919**	**GW4Q19-PW-05-103019**	**PW-06-091019**
Sample Date	**10/30/2019**	**9/9/2019**	**10/30/2019**	**9/10/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55860-1**	**320-54174-1**	**320-55860-1**	**320-54231-1**
Lab Sample ID	**320-55860-4**	**320-54174-1**	**320-55860-3**	**320-54231-1**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**1,000**	**1,600**	**1,200**	**950**
PFMOAA	**360 J**	<210	**230**	<210
PFO2HxA	**950**	**730**	**690**	**510**
PFO3OA	**330**	**73**	**73**	**74**
PFO4DA	**70**	**130**	**120**	<79
PFO5DA	<2	<34 UJ	<2 UJ	<34
PMPA	**1,100**	**1,600**	**1,300**	**1,100**
PEPA	**450**	**430**	**410**	**380**
PFESA-BP1	<2	<27	<2	<27
PFESA-BP2	**16**	**50**	**59**	<30
Byproduct 4	**200 J**	<160	**36**	<160
Byproduct 5	**3.6 J**	<58	<2	<58
Byproduct 6	<2	<15	<2	<15
NVHOS	**10**	<54	**6.4**	<54
EVE Acid	<2	<24	<2	<24
Hydro-EVE Acid	**10**	<28	**17**	<28
R-EVE	**65 J**	<70	**17**	<70
PES	<2	<46	<2	<46
PFECA B	<2	<60	<2	<60
PFECA-G	<2	<41	<2	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	<2	--	<2
11Cl-PF3OUdS	--	<2	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	--	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	--	<4
6:2 Fluorotelomer sulfonate	--	<20	--	<20
9Cl-PF3ONS	--	<2	--	<2
ADONA	--	<2.1	--	<2.1
NaDONA	--	<2.1	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	--	<2	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	--	<20
Perfluorobutane Sulfonic Acid	--	<2	--	<2
Perfluorobutanoic Acid	--	**13**	--	**8.8**
Perfluorodecane Sulfonic Acid	--	<2	--	<2
Perfluorodecanoic Acid	--	<2	--	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2	--	<2
Perfluorododecanoic Acid	--	<2	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	--	<2
Perfluoroheptanoic Acid	--	**4.5**	--	**3.7**
Perfluorohexadecanoic acid (PFHxDA)	--	<2	--	<2
Perfluorohexane Sulfonic Acid	--	<2	--	<2
Perfluorohexanoic Acid	--	**3**	--	**3**
Perfluorononanesulfonic acid	--	<2	--	<2
Perfluorononanoic Acid	--	<2	--	<2
Perfluorooctadecanoic acid	--	<2	--	<2
Perfluorooctane Sulfonamide	--	<2	--	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	--	<2
Perfluoropentanoic Acid	--	**15**	--	**12**
Perfluorotetradecanoic Acid	--	<2	--	<2
Perfluorotridecanoic Acid	--	<2	--	<2
Perfluoroundecanoic Acid	--	<2	--	<2
PFOA	--	**7.7**	--	**4.1**
PFOS	--	<2	--	<2

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	PW-06	PW-07	PW-07	PW-07
Field Sample ID	GW4Q19-PW-06-102919	PW-07-091319	PW-07-091319-Z	GW4Q19-PW-07-110819
Sample Date	10/29/2019	9/13/2019	9/13/2019	11/8/2019
QA/QC	--	--	--	--
Sample Matrix	Liquid	Liquid	Liquid	LIQUID
SDG	320-55854-1	320-54328-1	320-54328-1	320-56173-1
Lab Sample ID	320-55854-1	320-54328-2	320-54328-3	320-56173-7
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**1,300**	**1,100**	**1,000**	**790 J**
PFMOAA	**250**	**400**	**360**	**310 J**
PFO2HxA	**690**	**1,000**	**960**	**880**
PFO3OA	**110**	**140**	**140**	**110**
PFO4DA	**71**	**87**	**81**	**54**
PFO5DA	<2 UJ	<2	<2	**5.7**
PMPA	**1,400**	**1,400**	**1,300**	**1,400**
PEPA	**490**	**440**	**420**	**380 J**
PFESA-BP1	<2	<2	<2	<2
PFESA-BP2	**40**	**5.1**	**3.1**	**7.4**
Byproduct 4	**50**	**41**	**59 J**	**23**
Byproduct 5	<2	<2	<2	**9.1**
Byproduct 6	<2	<2	<2	<2
NVHOS	**7.5**	**9.1**	**8.8**	**9.1**
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	**9.3**	**6.4**	**6**	**6.5**
R-EVE	**22**	**13**	**16 J**	**9.5 J**
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	<2	<2	--
11Cl-PF3OUdS	--	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	<4	--
6:2 Fluorotelomer sulfonate	--	<20	<20	--
9Cl-PF3ONS	--	<2	<2	--
ADONA	--	<2.1	<2.1	--
NaDONA	--	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
Perfluorobutane Sulfonic Acid	--	<2	<2	--
Perfluorobutanoic Acid	--	**33**	**32**	--
Perfluorodecane Sulfonic Acid	--	<2	<2	--
Perfluorodecanoic Acid	--	<2	<2	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2	--
Perfluorododecanoic Acid	--	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	--
Perfluoroheptanoic Acid	--	**6.2**	**4.4**	--
Perfluorohexadecanoic acid (PFHxDA)	--	<2	<2	--
Perfluorohexane Sulfonic Acid	--	<2	<2	--
Perfluorohexanoic Acid	--	**4.7**	**4.2**	--
Perfluorononanesulfonic acid	--	<2	<2	--
Perfluorononanoic Acid	--	<2	<2	--
Perfluorooctadecanoic acid	--	<2	<2	--
Perfluorooctane Sulfonamide	--	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2	--
Perfluoropentanoic Acid	--	**21**	**21**	--
Perfluorotetradecanoic Acid	--	<2	<2	--
Perfluorotridecanoic Acid	--	<2	<2	--
Perfluoroundecanoic Acid	--	<2	<2	--
PFOA	--	**2.7**	<2	--
PFOS	--	<2	<2	--

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ng/L - nanograms per liter
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SDG - Sample Delivery Group
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-09**	**PW-09**	**PW-09**	**PW-10R**
Field Sample ID	**PW-09-091119**	**PW-09-091119-Z**	**GW4Q19-PW-09-103019**	**GW0619-PW-10R**
Sample Date	**9/11/2019**	**9/11/2019**	**10/30/2019**	**9/19/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-54274-1**	**320-54278-1**	**320-55860-1**	**320-54522-1**
Lab Sample ID	**320-54274-2**	**320-54278-2**	**320-55860-5**	**320-54522-1**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<2	**9,900**
PFMOAA	<210	<210	<5	**130,000**
PFO2HxA	**170 J**	**160**	<2	**23,000**
PFO3OA	<58	<58	<2	**1,100**
PFO4DA	<79	<79	<2	<79
PFO5DA	<34	<34	<2	<34
PMPA	**1,600**	**1,900**	<10	**3,200**
PEPA	**220**	**160**	<20	**440**
PFESA-BP1	**160 J**	**79**	<2	<27
PFESA-BP2	**81**	**37**	<2	<30
Byproduct 4	<160	<160	<2	<160
Byproduct 5	**94**	**65 J**	<2	**160**
Byproduct 6	<15	<15	<2	<15
NVHOS	<54	<54	<2	**680**
EVE Acid	<24	<24	<2	<24
Hydro-EVE Acid	<28	<28	<2	<28
R-EVE	<70	<70	<2	**230**
PES	<46	<46	<2	<46
PFECA B	<60	<60	<2	<60
PFECA-G	<41	<41	<2	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	--	<22
11Cl-PF3OUdS	<2	<2	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	<230
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	--	<600
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	--	<97
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	--	<160
6:2 Fluorotelomer sulfonate	<20	<20	--	<230
9Cl-PF3ONS	<2	<2	--	--
ADONA	<2.1	<2.1	--	--
NaDONA	<2.1	<2.1	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<220
N-ethylperfluoro-1-octanesulfonamide	<2	<2	--	<37
N-methyl perfluoro-1-octanesulfonamide	<2	<2	--	<49
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<350
Perfluorobutane Sulfonic Acid	<2	<2	--	**130**
Perfluorobutanoic Acid	<2	<2	--	**66**
Perfluorodecane Sulfonic Acid	<2	<2	--	<37
Perfluorodecanoic Acid	<2	<2	--	<35
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	--	<52
Perfluorododecanoic Acid	<2	<2	--	<63
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	<22
Perfluoroheptanoic Acid	<2	<2	--	<29
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	--	<100
Perfluorohexane Sulfonic Acid	<2	<2	--	<19
Perfluorohexanoic Acid	<2	<2	--	<66
Perfluorononanesulfonic acid	<2	<2	--	<18
Perfluorononanoic Acid	<2	<2	--	<31
Perfluorooctadecanoic acid	<2	<2	--	<53
Perfluorooctane Sulfonamide	<2	<2	--	<40
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	--	<34
Perfluoropentanoic Acid	<2	<2	--	**530**
Perfluorotetradecanoic Acid	<2	<2	--	<33
Perfluorotridecanoic Acid	<2	<2	--	<150
Perfluoroundecanoic Acid	<2	<2	--	<130
PFOA	<2	<2	--	<97
PFOS	<2	<2	--	<62

Notes:
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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-10R**	**PW-10R**	**PW-11**	**PW-11**
Field Sample ID	**GW0619-PW-10R-Z**	**GW4Q19-PW-10R-110419**	**PW-11-091019**	**PW-11-091019-Z**
Sample Date	**9/19/2019**	**11/4/2019**	**9/10/2019**	**9/10/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-54524-1**	**320-56112-1**	**320-54231-1**	**320-54229-1**
Lab Sample ID	**320-54524-1**	**320-56112-4**	**320-54231-2**	**320-54229-1**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**8,400**	**5,200**	**16,000**	**20,000**
PFMOAA	**120,000**	**150,000**	**280,000**	**310,000**
PFO2HxA	**22,000**	**24,000**	**56,000 J**	**59,000**
PFO3OA	**980**	**1,000**	**32,000 J**	**33,000**
PFO4DA	<79	<79	**16,000**	**16,000**
PFO5DA	<34	**34**	**670 J**	**480**
PMPA	**3,100**	**3,500**	**8,200**	**9,000**
PEPA	**440**	**490**	**3,100**	**3,200**
PFESA-BP1	<27	<27	**410**	**320**
PFESA-BP2	<30	<30	**910**	**720**
Byproduct 4	<160	<160	**1,400**	**1,700**
Byproduct 5	**160**	**170**	**3,200**	**3,300**
Byproduct 6	<15	<15	**93**	**78**
NVHOS	**640**	**820**	**3,000**	**3,100**
EVE Acid	<24	<24	<120	<120
Hydro-EVE Acid	<28	<28	**940**	**820**
R-EVE	**210**	**150**	**540**	**640**
PES	<46	<46	<230	<230
PFECA B	<60	<60	<300	<300
PFECA-G	<41	<41	<200	<200
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<19	--	<2	<2
11Cl-PF3OUdS	--	--	<3.1	<2.9
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<200	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<530	--	<500	<48
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<87	--	<82	<7.8
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<140	--	<13	<13
6:2 Fluorotelomer sulfonate	<200	--	**21**	<20
9Cl-PF3ONS	--	--	<2.3	<2.2
ADONA	--	--	<2.1	<2.1
NaDONA	--	--	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<190	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37	--	<84	<7.9
N-methyl perfluoro-1-octanesulfonamide	<35	--	<4.1	<3.9
N-methyl perfluorooctane sulfonamidoacetic acid	<320	--	<300	<28
Perfluorobutane Sulfonic Acid	**95**	--	<2	**3.2**
Perfluorobutanoic Acid	**67**	--	**150**	**150**
Perfluorodecane Sulfonic Acid	<33	--	<3.1	<2.9
Perfluorodecanoic Acid	<32	--	<3	<2.8
Perfluorododecane sulfonic acid (PFDoS)	<46	--	<4.3	<4.1
Perfluorododecanoic Acid	<56	--	<5.3	<5
Perfluoroheptane sulfonic acid (PFHpS)	<19	--	<2	<2
Perfluoroheptanoic Acid	<26	--	**430**	**410**
Perfluorohexadecanoic acid (PFHxDA)	<91	--	<8.6	<8.1
Perfluorohexane Sulfonic Acid	<17	--	**3.5**	**5.1**
Perfluorohexanoic Acid	<59	--	**39**	**35**
Perfluorononanesulfonic acid	<16	--	<2	<2
Perfluorononanoic Acid	<28	--	**4.2**	**3.1**
Perfluorooctadecanoic acid	<47	--	<4.4	<4.2
Perfluorooctane Sulfonamide	<36	--	<3.4	<3.2
Perfluoropentane sulfonic acid (PFPeS)	<31	--	<2.9	<2.7
Perfluoropentanoic Acid	**560**	--	**1,300**	**1,400**
Perfluorotetradecanoic Acid	<30	--	<2.8	<2.6
Perfluorotridecanoic Acid	<130	--	<13	<12
Perfluoroundecanoic Acid	<110	--	<11	<10
PFOA	<87	--	**25**	**23**
PFOS	<55	--	<5.2	<4.9

Notes:
Bold - Analyte detected above associated reporting limit
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EPA - Environmental Protection Agency
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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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-11**	**PW-12**	**PW-12**	**PW-12**
Field Sample ID	**GW4Q19-PW-11-102319**	**PW-12-091119**	**PW-12-091119-Z**	**GW4Q19-PW-12-110519**
Sample Date	**10/23/2019**	**9/11/2019**	**9/11/2019**	**11/5/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**Liquid**	**Liquid**	**LIQUID**
SDG	**320-55683-1**	**320-54299-1**	**320-54299-1**	**320-56112-1**
Lab Sample ID	**320-55683-2**	**320-54299-4**	**320-54299-5**	**320-56112-10**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**12,000**	<4	<4	<2
PFMOAA	**190,000**	<5	<5	<5
PFO2HxA	**36,000**	<2	<2	<2
PFO3OA	**18,000**	<2	<2	<2
PFO4DA	**11,000**	<2	<2	<2
PFO5DA	**1,100**	<2	<2	<2
PMPA	**6,000**	**15**	<10	<10
PEPA	**2,400**	<20	<20	<20
PFESA-BP1	**440**	<2	<2	<2
PFESA-BP2	**980**	<2	<2	<2
Byproduct 4	**1,100**	<2	<2	<2
Byproduct 5	**2,000 J**	<2	<2	<2
Byproduct 6	<77	<2	<2	<2
NVHOS	**1,800**	<2	<2	<2
EVE Acid	<120	<2	<2	<2
Hydro-EVE Acid	**590**	<2	<2	<2
R-EVE	<350	<2	<2	<2
PES	<230	<2	<2	<2
PFECA B	<300	<2	<2	<2
PFECA-G	<200	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	<2	<2	--
11Cl-PF3OUdS	--	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	<4	--
6:2 Fluorotelomer sulfonate	--	<20	<20	--
9Cl-PF3ONS	--	<2	<2	--
ADONA	--	<2.1	<2.1	--
NaDONA	--	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluoro-1-octanesulfonamide	--	<2	<2	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	--
Perfluorobutane Sulfonic Acid	--	<2	<2	--
Perfluorobutanoic Acid	--	<2	<2	--
Perfluorodecane Sulfonic Acid	--	<2	<2	--
Perfluorodecanoic Acid	--	<2	<2	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2	--
Perfluorododecanoic Acid	--	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	--
Perfluoroheptanoic Acid	--	<2	<2	--
Perfluorohexadecanoic acid (PFHxDA)	--	<2 UJ	<2 UJ	--
Perfluorohexane Sulfonic Acid	--	<2	<2	--
Perfluorohexanoic Acid	--	<2	<2	--
Perfluorononanesulfonic acid	--	<2	<2	--
Perfluorononanoic Acid	--	<2	<2	--
Perfluorooctadecanoic acid	--	<2 UJ	<2 UJ	--
Perfluorooctane Sulfonamide	--	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2	--
Perfluoropentanoic Acid	--	<2	<2	--
Perfluorotetradecanoic Acid	--	<2	<2	--
Perfluorotridecanoic Acid	--	<2	<2	--
Perfluoroundecanoic Acid	--	<2	<2	--
PFOA	--	<2	<2	--
PFOS	--	<2	<2	--

Notes:
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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-13**	**PW-13**	**PW-13**	**PW-14**
Field Sample ID	**PW-13-091019**	**PW-13-091019-Z**	**GW4Q19-PW-13-110819**	**PW-14-091119**
Sample Date	**9/10/2019**	**9/10/2019**	**11/8/2019**	**9/11/2019**
QA/QC	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-54231-1**	**320-54229-1**	**320-56173-1**	**320-54274-1**
Lab Sample ID	**320-54231-3**	**320-54229-2**	**320-56173-8**	**320-54274-3**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<15	<15	<2	**22,000**
PFMOAA	<210	<2,100	<5	**9,500,000**
PFO2HxA	<81	<810	<2	**3,400,000**
PFO3OA	<58	<580	<2	**1,100,000**
PFO4DA	<79	<790	<2	**610,000**
PFO5DA	<34	<340	<2	**390,000**
PMPA	<570	<5,700	<10	**1,400,000**
PEPA	<47	<470	<20	**390,000**
PFESA-BP1	<27	<270	<2	**6,000**
PFESA-BP2	<30	<300	<2	**250,000**
Byproduct 4	<160	<1,600	<2	**150,000**
Byproduct 5	<58	<580	<2	**190,000**
Byproduct 6	<15	<150	<2	**5,000**
NVHOS	<54	<540	<2	**96,000**
EVE Acid	<24	<240	<2	<2,400
Hydro-EVE Acid	<28	<280	<2	**210,000**
R-EVE	<70	<700	<2	**130,000**
PES	<46	<460	<2	<4,600
PFECA B	<60	<600	<2	<6,000
PFECA-G	<41	<410	<2	<4,100
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	--	<2
11Cl-PF3OUdS	<3.2	<3.2	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<52	<52	--	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<8.5	<8.5	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<14	<14	--	<4
6:2 Fluorotelomer sulfonate	<20	**38**	--	<20
9Cl-PF3ONS	<2.4	<2.4	--	<2
ADONA	<2.1	<2.1	--	<2.1
NaDONA	<2.1	<2.1	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	<8.7	<8.7	--	<2
N-methyl perfluoro-1-octanesulfonamide	<4.3	<4.3	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<31	<31	--	<20
Perfluorobutane Sulfonic Acid	<2	**16**	--	<2
Perfluorobutanoic Acid	<3.5	<3.5	--	**420**
Perfluorodecane Sulfonic Acid	<3.2	<3.2	--	<2
Perfluorodecanoic Acid	<3.1	<3.1	--	**2.4**
Perfluorododecane sulfonic acid (PFDoS)	<4.5	<4.5	--	<2
Perfluorododecanoic Acid	<5.5	<5.5	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	<2
Perfluoroheptanoic Acid	<2.5	<2.5	--	**280**
Perfluorohexadecanoic acid (PFHxDA)	<8.9	<8.9	--	<2
Perfluorohexane Sulfonic Acid	**2.3**	**2.1**	--	**4.2**
Perfluorohexanoic Acid	<5.8	<5.8	--	**130**
Perfluorononanesulfonic acid	<2	<2	--	<2
Perfluorononanoic Acid	<2.7	<2.7	--	**190**
Perfluorooctadecanoic acid	<4.6	<4.6	--	<2
Perfluorooctane Sulfonamide	<3.5	<3.5	--	<2
Perfluoropentane sulfonic acid (PFPeS)	<3	<3	--	<2
Perfluoropentanoic Acid	<4.9	<4.9	--	**1,300**
Perfluorotetradecanoic Acid	<2.9	**4.8**	--	<2
Perfluorotridecanoic Acid	<13	<13	--	<2
Perfluoroundecanoic Acid	<11	<11	--	<2
PFOA	<8.5	<8.5	--	**120**
PFOS	<5.4	<5.4	--	**16**

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SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-14	PW-15R	PW-15R
Field Sample ID	GW4Q19-PW-14-102319	GW0619-PW-15R-D	GW0619-PW-15R
Sample Date	10/23/2019	9/19/2019	9/19/2019
QA/QC	--	Field Duplicate	--
Sample Matrix	LIQUID	LIQUID	LIQUID
SDG	320-55683-1	320-54519-1	320-54519-1
Lab Sample ID	320-55683-8	320-54519-2	320-54519-1
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	**17,000**	**11,000 J**	**8,700 J**
PFMOAA	**95,000**	**340,000**	**330,000**
PFO2HxA	**27,000**	**64,000**	**63,000**
PFO3OA	**8,100**	**14,000**	**14,000**
PFO4DA	**4,800**	**2,200**	**2,200**
PFO5DA	**2,900**	<67	<67
PMPA	**13,000**	**36,000**	**36,000**
PEPA	**3,400**	**9,300**	**8,900**
PFESA-BP1	**52**	**4,100**	**3,300**
PFESA-BP2	**2,500**	**670**	**640 J**
Byproduct 4	**1,200**	**1,800 J**	**1,500 J**
Byproduct 5	**2,400 J**	**21,000**	**19,000**
Byproduct 6	**42**	**34**	**270**
NVHOS	**840**	**3,500**	**3,500**
EVE Acid	**25**	**190**	**250 J**
Hydro-EVE Acid	**2,000**	**510**	**550 J**
R-EVE	**1,200**	**560**	**700 J**
PES	<46	<92	**210**
PFECA B	<60	<120	**220**
PFECA-G	<41	<82	**210**
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<18	<28
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<180	<180
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<480	<470
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<78	**240**
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<130	**270**
6:2 Fluorotelomer sulfonate	--	<180	<180
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<180	<170
N-ethylperfluoro-1-octanesulfonamide	--	<75	**210**
N-methyl perfluoro-1-octanesulfonamide	--	<40	**220**
N-methyl perfluorooctane sulfonamidoacetic acid	--	<290	<280
Perfluorobutane Sulfonic Acid	--	**20**	<33
Perfluorobutanoic Acid	--	**140**	**170**
Perfluorodecane Sulfonic Acid	--	<30	<36
Perfluorodecanoic Acid	--	<29	<36
Perfluorododecane sulfonic acid (PFDoS)	--	<42	<41
Perfluorododecanoic Acid	--	<51	<50
Perfluoroheptane sulfonic acid (PFHpS)	--	<18	<31
Perfluoroheptanoic Acid	--	**56 J**	**94 J**
Perfluorohexadecanoic acid (PFHxDA)	--	<82	<81
Perfluorohexane Sulfonic Acid	--	<16	<32
Perfluorohexanoic Acid	--	<54	<60
Perfluorononanesulfonic acid	--	<15	<30
Perfluorononanoic Acid	--	<25	<39
Perfluorooctadecanoic acid	--	<42	<42
Perfluorooctane Sulfonamide	--	<32	<32
Perfluoropentane sulfonic acid (PFPeS)	--	<28	<33
Perfluoropentanoic Acid	--	**580**	**660**
Perfluorotetradecanoic Acid	--	<27	<36
Perfluorotridecanoic Acid	--	<120	<120
Perfluoroundecanoic Acid	--	<100	<100
PFOA	--	<78	<77
PFOS	--	<50	<49

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EPA - Environmental Protection Agency
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SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Perched Zone	Perched Zone
Location ID	PW-15R	PW-15R	PZ-11	PZ-11
Field Sample ID	GW4Q19-PW-15R-110619-D	GW4Q19-PW-15R-110619	GW0619-PZ-11-D	GW0619-PZ-11
Sample Date	11/6/2019	11/6/2019	7/16/2019	7/16/2019
QA/QC	Field Duplicate	--	Field Duplicate	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-56117-1	320-56117-1	320-52322-1	320-52322-1
Lab Sample ID	320-56117-5	320-56117-4	320-52322-2	320-52322-1
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**11,000**	**11,000**	**6,200 B**	**4,900 B**
PFMOAA	**460,000**	**450,000**	**7,500**	**7,100**
PFO2HxA	**77,000**	**76,000**	**5,000**	**4,800**
PFO3OA	**17,000**	**16,000**	**910**	**830**
PFO4DA	**2,300**	**2,000**	**710**	**650**
PFO5DA	<170	<170	**920**	**800**
PMPA	**50,000**	**50,000**	**3,600**	**3,300**
PEPA	**11,000**	**11,000**	**1,200**	**1,100**
PFESA-BP1	**2,400**	**2,300**	**560**	**530**
PFESA-BP2	**480**	**470**	**350**	**320**
Byproduct 4	**2,400**	**2,200**	**260**	**220**
Byproduct 5	**27,000**	**27,000**	**1,200**	**1,200**
Byproduct 6	<77	<77	<15	<15
NVHOS	**4,800**	**4,600**	**130**	**140**
EVE Acid	<120	<120	**30**	**29**
Hydro-EVE Acid	**430**	**400**	**110**	**120**
R-EVE	**890**	**930**	**110 J**	**110 J**
PES	<230	<230	<46	<46
PFECA B	<300	<300	<60	<60
PFECA-G	<200	<200	<41	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
Perfluorobutane Sulfonic Acid	--	--	**2.6**	**2.8**
Perfluorobutanoic Acid	--	--	**43**	**43**
Perfluorodecane Sulfonic Acid	--	--	<2	<2
Perfluorodecanoic Acid	--	--	**3.2**	**3**
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	<2
Perfluorododecanoic Acid	--	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	<2
Perfluoroheptanoic Acid	--	--	**23**	**23**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	**4.9**	**5.2**
Perfluorohexanoic Acid	--	--	**20**	**20**
Perfluorononanesulfonic acid	--	--	<2	<2
Perfluorononanoic Acid	--	--	**6**	**6.2**
Perfluorooctadecanoic acid	--	--	<2	<2
Perfluorooctane Sulfonamide	--	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	<2
Perfluoropentanoic Acid	--	--	**65**	**64**
Perfluorotetradecanoic Acid	--	--	<2	<2
Perfluorotridecanoic Acid	--	--	<2	<2
Perfluoroundecanoic Acid	--	--	<2	**2.2**
PFOA	--	--	**43**	**42**
PFOS	--	--	**15**	**16**

Notes:
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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Perched Zone	Perched Zone	Perched Zone
Location ID	PZ-12	PZ-13	PZ-14	PZ-15	PZ-19R
Field Sample ID	GW0619-PZ-12	GW0619-PZ-13	GW0619-PZ-14	GW0619-PZ-15	GW0619-PZ-19R
Sample Date	7/11/2019	6/25/2019	7/3/2019	6/25/2019	7/1/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52282-1	320-51746-1	320-52030-1	320-51746-1	320-52028-1
Lab Sample ID	320-52282-2	320-51746-6	320-52030-4	320-51746-3	320-52028-2
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**6,800**	**44,000 J**	**32,000**	**10,000**	**6,500**
PFMOAA	**63,000 J**	**8,000 J**	**5,300**	**2,800 J**	**3,000**
PFO2HxA	**13,000**	**20,000 J**	**14,000**	**9,000 J**	**6,100**
PFO3OA	**3,000**	**3,200 J**	**2,800 J**	**1,300 J**	**720**
PFO4DA	**990**	**3,300 J**	**2,100 J**	**1,100 J**	**740**
PFO5DA	**360**	**4,600 J**	**3,100 J**	**1,000 J**	**450 J**
PMPA	**5,300**	**110,000 J**	**48,000**	**19,000 J**	**4,400**
PEPA	**1,200**	**62,000 J**	**17,000**	**7,600 J**	**1,900**
PFESA-BP1	**7,600**	**320 J**	<27	<27 UJ	**31**
PFESA-BP2	**770**	**1,300 J**	**620**	**550 J**	**230**
Byproduct 4	**480**	**3,200 J**	**980**	**970 J**	**390**
Byproduct 5	**5,800 J**	**1,600 J**	**72**	**180 J**	**70**
Byproduct 6	**18**	**28 J**	**22**	<15 UJ	**5**
NVHOS	**450**	**290 J**	**380**	**130 J**	**76**
EVE Acid	**150**	**200 J**	<24	<24 UJ	**23**
Hydro-EVE Acid	**210**	**320 J**	**410**	**140 J**	**57**
R-EVE	**200 J**	**2,300 J**	**280**	**620 J**	**250**
PES	<46	<46 UJ	<46	<46 UJ	<4.6
PFECA B	<60	<60 UJ	<60	<60 UJ	<6
PFECA-G	<41	<41 UJ	<41	<41 UJ	<4.1
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2	**4.2**
Perfluorobutanoic Acid	**67**	**2,400**	**460**	**160**	**63**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	**3.1**	<2	<2	**3.7**
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**38**	**120**	**52**	**27**	**34**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	**3.2**	<2	<2	<2	**6.9**
Perfluorohexanoic Acid	**24**	**55**	**22**	**11**	**31**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	**4.4**	**55**	**20**	**5.2**	**7.5**
Perfluorooctadecanoic acid	<2 UJ	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2
Perfluoropentanoic Acid	**150**	**910**	**310**	**160**	**90**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	**3.5**	<2	<2	<2
PFOA	**120**	**78**	**130**	**44**	**32**
PFOS	**8.9**	**6.9**	**6.5**	**4.9**	**16**

Notes:
Bold - Analyte detected above associated reporting limit
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EPA - Environmental Protection Agency
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ng/L - nanograms per liter
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Black Creek Aquifer	Perched Zone	Perched Zone
Location ID	**PZ-20R**	**PZ-21R**	**PZ-22**	**PZ-24**	**PZ-26**
Field Sample ID	**GW0619-PZ-20R**	**GW0619-PZ-21R**	**GW0619-PZ-22**	**GW0619-PZ-24**	**GW0619-PZ-26**
Sample Date	**7/1/2019**	**7/2/2019**	**7/23/2019**	**6/25/2019**	**6/25/2019**
QA/QC	**--**	**--**	**--**	**--**	**--**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52028-1**	**320-52030-1**	**320-52722-1**	**320-51746-1**	**320-51746-1**
Lab Sample ID	**320-52028-1**	**320-52030-1**	**320-52722-2**	**320-51746-10**	**320-51746-9**
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**3,500**	**2,100**	**10,000**	**36,000**	**240**
PFMOAA	**820**	**920**	**180,000**	**1,300 J**	<210 UJ
PFO2HxA	**2,600**	**1,800**	**38,000**	**4,100 J**	**190 J**
PFO3OA	**240**	**190 J**	**3,800**	**810 J**	<58 UJ
PFO4DA	**190**	**220 J**	**340**	**710 J**	<79 UJ
PFO5DA	**160 J**	**150 J**	<67	**190 J**	**58 J**
PMPA	**2,000**	**1,000**	**4,700**	**14,000 J**	<570 UJ
PEPA	**870**	**410**	**1,100**	**5,200 J**	**140 J**
PFESA-BP1	<2	**4.3**	<53	<27 UJ	<27 UJ
PFESA-BP2	**98**	**97**	<61	**180 J**	<30 UJ
Byproduct 4	**75**	**88**	**760 J**	**330 J**	<160 UJ
Byproduct 5	**3.2**	**15 J**	**1,900**	<58 UJ	<58 UJ
Byproduct 6	<2	**2.3**	<31	<15 UJ	<15 UJ
NVHOS	**20**	**22**	**1,200**	**93 J**	<54 UJ
EVE Acid	<2	**12**	<49	<24 UJ	<24 UJ
Hydro-EVE Acid	**17**	**20**	**130**	**82 J**	<28 UJ
R-EVE	**38**	**41**	**680**	**280 J**	<70 UJ
PES	<2.3	<2.3	<92	<46 UJ	<46 UJ
PFECA B	<3	<3	<120	<60 UJ	<60 UJ
PFECA-G	<2	<2	<82	<41 UJ	<41 UJ
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	**5**	**4**	<2	**2.3**	**5.5**
Perfluorobutanoic Acid	**28**	**20**	**140**	**140**	**15**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2
Perfluorodecanoic Acid	**6**	**4**	<2	<2	**4.4**
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**36**	**27**	**33**	**25**	**19**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	**8.2**	**7.1**	<2	<2	**7.6**
Perfluorohexanoic Acid	**38**	**29**	**43**	**16**	**27**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	**5.8**	**6.9**	<2	**2.4**	**3.2**
Perfluorooctadecanoic acid	<2	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2
Perfluoropentanoic Acid	**67**	**46**	**810**	**110**	**28**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2	<2
PFOA	**24**	**28**	**4**	**160**	**14**
PFOS	**22**	**19**	<2	**3.9**	**23**

Notes:
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SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Perched Zone	Perched Zone	Perched Zone	Surficial Aquifer	Perched Zone
Location ID	PZ-27	PZ-28	PZ-35	SMW-01	SMW-02
Field Sample ID	GW0619-PZ-27	GW0619-PZ-28	GW0619-PZ-35	GW0619-SMW-01	GW0619-SMW-02
Sample Date	6/25/2019	6/25/2019	7/2/2019	6/25/2019	7/17/2019
QA/QC	--	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-51746-1	320-51746-1	320-52028-1	320-51746-1	320-52454-1
Lab Sample ID	320-51746-8	320-51746-7	320-52028-3	320-51746-12	320-52454-3
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	**500**	**1,400**	**1,600**	**2,100**	**18,000**
PFMOAA	**5,800 J**	**460 J**	**560**	**360 J**	**2,900**
PFO2HxA	**1,300 J**	**1,300 J**	**1,500**	**980 J**	**20,000**
PFO3OA	**310 J**	**160 J**	**260**	**210 J**	**3,200**
PFO4DA	**150 J**	**190 J**	**390**	**54 J**	**1,100**
PFO5DA	**120 J**	**46 J**	**410 J**	**3.1 J**	**56**
PMPA	**660 J**	**3,200 J**	**1,100**	**1,700 J**	**21,000**
PEPA	**270 J**	**1,100 J**	**530**	**570 J**	**9,900**
PFESA-BP1	**29 J**	<2 UJ	**11**	<2 UJ	<27
PFESA-BP2	**180 J**	**54 J**	**140**	**55 J**	**120**
Byproduct 4	<160 UJ	**150 J**	**92 J**	**110 J**	**810**
Byproduct 5	**440 J**	<2.9 UJ	**33 J**	<2 UJ	<58
Byproduct 6	<15 UJ	<2 UJ	**2.1**	<2 UJ	**17**
NVHOS	**110 J**	**30 J**	**18**	**11 J**	**320**
EVE Acid	<24 UJ	<2 UJ	**6.1**	<2 UJ	<24
Hydro-EVE Acid	<28 UJ	**16 J**	**29**	**4.9 J**	**67**
R-EVE	<70 UJ	**82 J**	**53 J**	**43 J**	**510**
PES	<46 UJ	<2.3 UJ	<2	<2 UJ	<46
PFECA B	<60 UJ	<3 UJ	<2	<2 UJ	<60
PFECA-G	<41 UJ	<2 UJ	<2	<2 UJ	<41
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	--	--	--	--	--
11Cl-PF3OUdS	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<46
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--	--
ADONA	--	--	--	--	--
NaDONA	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<27
Perfluorobutane Sulfonic Acid	**3.6**	<2	**3.7**	**2**	**2.1**
Perfluorobutanoic Acid	**12**	**28**	**23**	**17**	**88**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	<2.8
Perfluorodecanoic Acid	<2	**2.6**	**4**	<2	<2.7
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	<4
Perfluorododecanoic Acid	<2	<2	<2	<2	<4.9
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	<2
Perfluoroheptanoic Acid	**11**	**11**	**24**	**9.2**	**41**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	**5.2**	**3**	**5.5**	<2	<2
Perfluorohexanoic Acid	**13**	**11**	**26**	**6.2**	**22**
Perfluorononanesulfonic acid	<2	<2	<2	<2	<2
Perfluorononanoic Acid	**2**	**4.3**	**9**	<2	<2.4
Perfluorooctadecanoic acid	<2	<2	<2	<2	<4.1
Perfluorooctane Sulfonamide	<2	<2	<2	<2	<3.1
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	<2.7
Perfluoropentanoic Acid	**27**	**35**	**43**	**25**	**230**
Perfluorotetradecanoic Acid	<2	<2	<2	<2	<2.6
Perfluorotridecanoic Acid	<2	<2	<2	<2	<12
Perfluoroundecanoic Acid	<2	<2	<2	<2	<9.7
PFOA	**13**	**14**	**26**	**9.9**	**34**
PFOS	**12**	**8.9**	**16**	**2.9**	<4.8

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SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Perched Zone
Location ID	SMW-03B	SMW-04B	SMW-05P	SMW-07
Field Sample ID	GW0619-SMW-03B	GW0619-SMW-04B	GW0619-SMW-05P	GW0619-SMW-07
Sample Date	7/12/2019	7/12/2019	7/25/2019	7/8/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52285-1	320-52285-1	320-52722-1	320-52171-1
Lab Sample ID	320-52285-2	320-52285-3	320-52722-3	320-52171-5
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**12,000**	**13,000**	**19,000**	**12,000**
PFMOAA	**460,000**	**41,000**	**220,000**	**750**
PFO2HxA	**72,000**	**7,000**	**45,000**	**2,200**
PFO3OA	**10,000 J**	**1,600 J**	**13,000**	**220**
PFO4DA	<790	**430**	**4,700**	**280**
PFO5DA	<340	**61 J**	**460**	**72 J**
PMPA	**56,000**	**4,800**	**27,000**	**2,700**
PEPA	**11,000**	**990**	**5,100**	**770**
PFESA-BP1	**430**	**46**	**1,200**	<27
PFESA-BP2	<300	**56**	**210**	**150**
Byproduct 4	**2,200**	**180**	**1,300 J**	**180**
Byproduct 5	**27,000**	**550**	**6,500**	<58
Byproduct 6	<150	<15	**40**	<15
NVHOS	**4,800**	**450**	**3,100**	<54
EVE Acid	<240	<24	**240**	<24
Hydro-EVE Acid	<280	**64**	**390**	**43**
R-EVE	**710**	**89**	**500**	**130**
PES	<460	<46	<92	<46
PFECA B	<600	<60	<120	<60
PFECA-G	<410	<41	<82	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<24	<24	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	**2.4**	**2.9**	**3.4**	**5**
Perfluorobutanoic Acid	**210**	**42**	**120**	**25**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2.1	<2.1	<2	<2
Perfluorododecanoic Acid	<2.6	<2.6	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**41**	**46**	**140**	**48**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	**4.2**	**3.5**	**25**
Perfluorohexanoic Acid	**45**	**36**	**120**	**23**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	**4.9**	<2
Perfluorooctadecanoic acid	<2.2	<2.2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	**3.9**
Perfluoropentanoic Acid	**600**	**95**	**260**	**27**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<6.1	<6.1	<2	<2
Perfluoroundecanoic Acid	<5.2	<5.2	<2	<2
PFOA	**120**	**5,800**	**6,900**	**1,300**
PFOS	<2.5	<2.5	**2.7**	**2.2**

Notes:
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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	SMW-08B	SMW-09	SMW-10	SMW-11
Field Sample ID	GW0619-SMW-08B	GW0619-SMW-09	GW0619-SMW-10	GW0619-SMW-11
Sample Date	7/16/2019	7/11/2019	6/27/2019	6/26/2019
QA/QC	--	--	--	--
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID
SDG	320-52322-1	320-52282-1	320-51903-1	320-51903-1
Lab Sample ID	320-52322-3	320-52282-6	320-51903-4	320-51903-7
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	**8,700 B**	**14,000**	<4	**4,000**
PFMOAA	**260,000**	**1,800**	<210 UJ	**1,600 J**
PFO2HxA	**47,000**	**3,100**	<81 UJ	**2,400 J**
PFO3OA	**12,000**	**920**	<58 UJ	**400 J**
PFO4DA	**2,900**	**890**	<79 UJ	**190 J**
PFO5DA	**540**	**66**	**51 J**	**62 J**
PMPA	**7,700**	**4,800**	**780 J**	**2,900 J**
PEPA	**2,800**	**1,400**	<47 UJ	**760 J**
PFESA-BP1	**550**	**22,000**	<27 UJ	<27 UJ
PFESA-BP2	<300	**560**	<30 UJ	**72 J**
Byproduct 4	<1,600	**2,000**	<160 UJ	**180 J**
Byproduct 5	**4,400**	**54,000 J**	<58 UJ	<58 UJ
Byproduct 6	<150	**88**	<15 UJ	<15 UJ
NVHOS	**2,900**	**260**	<54 UJ	<54 UJ
EVE Acid	<240	**610**	<24 UJ	<24 UJ
Hydro-EVE Acid	**300**	**2,000**	<28 UJ	**30 J**
R-EVE	<700	**360 J**	<70 UJ	**140 J**
PES	<460	<46	<46 UJ	<46 UJ
PFECA B	<600	<60	<60 UJ	<60 UJ
PFECA-G	<410	<41	<41 UJ	<41 UJ
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	**3.1**	**3.1**	<2	<2
Perfluorobutanoic Acid	**110**	**340**	<2	**24**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	**81**	**66**	<2	**9.8**
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	**4.9**	**16**	<2	<2
Perfluorohexanoic Acid	**34**	**79**	<2	**7.8**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	**4.2**	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2 UJ	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	**2.6**	<2	<2
Perfluoropentanoic Acid	**550**	**200**	<2	**29**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	**360**	**91**	<2	**34**
PFOS	**6.1**	<2	<2	<2

Notes:
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ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SDG - Sample Delivery Group
SOP - standard operating procedure
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	--	--
Location ID	**SMW-12**	**EB**	**EB**
Field Sample ID	**GW0619-SMW-12**	**GW0619-EQBLK-062719**	**GW0619-EQBLK-070819**
Sample Date	**7/11/2019**	**6/27/2019**	**7/8/2019**
QA/QC	**--**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52290-1**	**320-51903-1**	**320-52171-1**
Lab Sample ID	**320-52290-1**	**320-51903-5**	**320-52171-1**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	**1,700**	<4	<4
PFMOAA	**3,900**	<210 UJ	<5
PFO2HxA	**1,300**	<81 UJ	<2
PFO3OA	**53**	<58 UJ	<2
PFO4DA	<7.9	<79 UJ	<2
PFO5DA	<3.4	<34 UJ	<2
PMPA	**1,900**	<570 UJ	<10
PEPA	**440**	<47 UJ	<20
PFESA-BP1	<2.7	<27 UJ	<2
PFESA-BP2	<3	<30 UJ	<2
Byproduct 4	**120**	<160 UJ	<2
Byproduct 5	<5.8	<58 UJ	<2
Byproduct 6	<2	<15 UJ	<2
NVHOS	**38**	<54 UJ	<2
EVE Acid	<2.4	<24 UJ	<2
Hydro-EVE Acid	<2.8	<28 UJ	<2
R-EVE	**110**	<70 UJ	<2
PES	<4.6	<46 UJ	<2
PFECA B	<6	<60 UJ	<2
PFECA-G	<4.1	<41 UJ	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2
Perfluorobutanoic Acid	**19**	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2
Perfluoropentanoic Acid	**41**	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2
PFOA	<2	<2	<2
PFOS	<2	<2	<2

Notes:
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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW0619-EQBLK-070819-02**	**GW0619-EQBLK-070919**	**GW0619-EQBLK-071019**
Sample Date	**7/8/2019**	**7/9/2019**	**7/10/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52171-1**	**320-52149-1**	**320-52165-1**
Lab Sample ID	**320-52171-2**	**320-52149-3**	**320-52165-4**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<4	<4	<4
PFMOAA	<5	**6.7**	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2
PFOA	<2	<2	<2
PFOS	<2	<2	<2

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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EB**	**EB**	**EB**	**EB**
Field Sample ID	**GW0619-EB-02-071119**	**GW0619-EB-071119**	**GW0619-EB-071219**	**GW0619-EB-02-071519**
Sample Date	**7/11/2019**	**7/11/2019**	**7/12/2019**	**7/15/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52290-1**	**320-52290-1**	**320-52285-1**	**320-52285-1**
Lab Sample ID	**320-52290-3**	**320-52290-2**	**320-52285-1**	**320-52285-5**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<4	<4
PFMOAA	<5	<5	<5	<5
PFO2HxA	<2	<2	<2	<2
PFO3OA	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2 UJ
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2
PFESA-BP2	<2	<2	<2	<2
Byproduct 4	<2	<2	<2	<2
Byproduct 5	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2

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ng/L - nanograms per liter
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SDG - Sample Delivery Group
SOP - standard operating procedure
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< - Analyte not detected above associated reporting limit.

TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EB**	**EB**	**EB**	**EB**
Field Sample ID	**GW0619-EB-071519**	**GW0619-EB-01-071619**	**GW0619-EB-02-071619**	**GW0619-EB-071719**
Sample Date	**7/15/2019**	**7/16/2019**	**7/16/2019**	**7/17/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52285-1**	**320-52322-1**	**320-52322-1**	**320-52464-1**
Lab Sample ID	**320-52285-4**	**320-52322-5**	**320-52322-6**	**320-52464-5**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	**72**	<4	<4
PFMOAA	<5	<5	<5	<5
PFO2HxA	<2	<2	<2	<2
PFO3OA	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2
PFESA-BP2	<2	<2	<2	<2
Byproduct 4	<2	<2	<2	<2
Byproduct 5	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	--
11Cl-PF3OUdS	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	--
ADONA	--	--	--	--
NaDONA	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2

Notes:
Bold - Analyte detected above associated reporting limit
B - analyte detected in an associated blank
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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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EB**	**EB**	**EB**	**EB**
Field Sample ID	**GW0619-EB-071819**	**GW0619-EB-071919**	**GW0619-EQBLK-072219**	**EQBLK-090919-01**
Sample Date	**7/18/2019**	**7/19/2019**	**7/22/2019**	**9/9/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52464-1**	**320-52624-1**	**320-52621-1**	**320-54174-1**
Lab Sample ID	**320-52464-3**	**320-52624-1**	**320-52621-4**	**320-54174-2**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<4	<4
PFMOAA	<5	<210	<210	<210
PFO2HxA	<2	<81	<81	<81
PFO3OA	<2	<58	<58	<58
PFO4DA	<2	<79	<79	<79
PFO5DA	<2	<34	<34	<34 UJ
PMPA	<10	<570	<570	<570
PEPA	<20	<47	<47	<47
PFESA-BP1	<2	<27	<27	<27
PFESA-BP2	<2	<30	<30	<30
Byproduct 4	<2	<160	<160	<160
Byproduct 5	<2	<58	<58	<58
Byproduct 6	<2	<15	<15	<15
NVHOS	<2	<54	<54	<54
EVE Acid	<2	<24	<24	<24
Hydro-EVE Acid	<2	<28	<28	<28
R-EVE	<2	<70	<70	<70
PES	<2	<46	<46	<46
PFECA B	<2	<60	<60	<60
PFECA-G	<2	<41	<41	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	<2
11Cl-PF3OUdS	--	--	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	--	<2
ADONA	--	--	--	<2.1
NaDONA	--	--	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	<2
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EB**	**EB**	**EB**	**EB**
Field Sample ID	**EQBLK-090919-02**	**EQBLK-091019-01**	**EQBLK-091019-02**	**EB-091919**
Sample Date	**9/9/2019**	**9/10/2019**	**9/10/2019**	**9/19/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-54174-1**	**320-54176-1**	**320-54176-1**	**320-54522-1**
Lab Sample ID	**320-54174-3**	**320-54176-2**	**320-54176-3**	**320-54522-2**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<4	<4
PFMOAA	<210	<210	<210	<5
PFO2HxA	<81	<81	<81	<2
PFO3OA	<58	<58	<58	<2
PFO4DA	<79	<79	<79	<2
PFO5DA	<34 UJ	<34	<34 UJ	<2
PMPA	<570	**780**	**570**	<10
PEPA	<47	<47	<47	<20
PFESA-BP1	<27	<27	<27	<2
PFESA-BP2	<30	<30	<30	<2
Byproduct 4	<160	<160	<160	<2
Byproduct 5	<58	<58	<58	<2
Byproduct 6	<15	<15	<15	<2
NVHOS	<54	<54	<54	<2
EVE Acid	<24	<24	<24	<2
Hydro-EVE Acid	<28	<28	<28	<2
R-EVE	<70	<70	<70	<2
PES	<46	<46	<46	<2
PFECA B	<60	<60	<60	<2
PFECA-G	<41	<41	<41	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
11Cl-PF3OUdS	<2	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	<4	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	<2	<2	<2	--
ADONA	<2.1	<2.1	<2.1	--
NaDONA	<2.1	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-01-102319**	**GW4Q19-EQBLK-02-102319**	**GW4Q19-EQBLK-01-102919**
Sample Date	**10/23/2019**	**10/23/2019**	**10/29/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55683-1**	**320-55683-1**	**320-55854-1**
Lab Sample ID	**320-55683-9**	**320-55683-4**	**320-55854-7**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<86	<86	<2
PFMOAA	<210	<210	<5
PFO2HxA	<81	<81	<2
PFO3OA	<58	<58	<2
PFO4DA	<79	<79	<2
PFO5DA	<34	<34	<2
PMPA	<570	<570	<10
PEPA	<47	<47	<20
PFESA-BP1	<27	<27	<2
PFESA-BP2	<30	<30	<2
Byproduct 4	<160	<160	<2
Byproduct 5	<58	<58	<2
Byproduct 6	<15	<15	<2
NVHOS	<54	<54	<2
EVE Acid	<24	<24	<2
Hydro-EVE Acid	<28	<28	<2
R-EVE	<70	<70	<2
PES	<46	<46	<2
PFECA B	<60	<60	<2
PFECA-G	<41	<41	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
Bold - Analyte detected above associated reporting limit
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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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-02-102919**	**GW4Q19-EQBLK-01-103019**	**GW4Q19-EQBLK-02-103019**
Sample Date	**10/29/2019**	**10/30/2019**	**10/30/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55854-1**	**320-55860-1**	**320-55860-1**
Lab Sample ID	**320-55854-8**	**320-55860-7**	**320-55860-8**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<2	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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ng/L - nanograms per liter
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SDG - Sample Delivery Group
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-01-103119**	**GW4Q19-EQBLK-02-103119**	**GW4Q19-EQBLK-01-110119**
Sample Date	**10/31/2019**	**10/31/2019**	**11/1/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55909-1**	**320-55909-1**	**320-56112-1**
Lab Sample ID	**320-55909-5**	**320-55909-6**	**320-56112-2**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	2.4	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2 UJ
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-02-110419**	**GW4Q19-EQBLK-02-110519**	**GW4Q19-EQBLK-02-110619**
Sample Date	**11/4/2019**	**11/5/2019**	**11/6/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-56112-1**	**320-56112-1**	**320-56117-1**
Lab Sample ID	**320-56112-5**	**320-56112-9**	**320-56117-2**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<2	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-03-110619**	**GW4Q19-EQBLK-02-110819**	**GW4Q19-EQBLK-04-110819**
Sample Date	**11/6/2019**	**11/8/2019**	**11/8/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-56117-1**	**320-56173-1**	**320-56173-1**
Lab Sample ID	**320-56117-3**	**320-56173-5**	**320-56173-6**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<2	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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.
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**GW0619-EQBLK-061919**	**GW0619-EQBLK-062019**	**GW0619-EQBLK-062119**
Sample Date	**6/19/2019**	**6/20/2019**	**6/21/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-51662-1**	**320-51662-1**	**320-51662-1**
Lab Sample ID	**320-51662-4**	**320-51662-5**	**320-51662-6**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<4	<4	<4
PFMOAA	<5 UJ	<5 UJ	<5 UJ
PFO2HxA	<2 UJ	<2 UJ	<2 UJ
PFO3OA	<2 UJ	<2 UJ	<2 UJ
PFO4DA	<2 UJ	<2 UJ	<2 UJ
PFO5DA	<5 UJ	<5 UJ	<5 UJ
PMPA	<10 UJ	<10 UJ	<10 UJ
PEPA	<20 UJ	<20 UJ	<20 UJ
PFESA-BP1	<2 UJ	<2 UJ	<2 UJ
PFESA-BP2	<2 UJ	<2 UJ	<2 UJ
Byproduct 4	<2 UJ	<2 UJ	<2 UJ
Byproduct 5	<2 UJ	<2 UJ	<2 UJ
Byproduct 6	<2 UJ	<2 UJ	<2 UJ
NVHOS	<2 UJ	<2 UJ	<2 UJ
EVE Acid	<2 UJ	<2 UJ	<2 UJ
Hydro-EVE Acid	<2 UJ	<2 UJ	<2 UJ
R-EVE	<2 UJ	<2 UJ	<2 UJ
PES	<2 UJ	<2 UJ	<2 UJ
PFECA B	<2 UJ	<2 UJ	<2 UJ
PFECA-G	<2 UJ	<2 UJ	<2 UJ
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2 UJ
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	<2	<2	<2
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	<2	<2	<2
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2
PFOA	<2	<2	<2
PFOS	<2	<2	<2

Notes:
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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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**GW0619-EQBLK**	**GW0619-EQBLK-062619**	**GW0619-EQBLK-062819**
Sample Date	**6/25/2019**	**6/26/2019**	**6/28/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-51746-1**	**320-51904-1**	**320-51904-1**
Lab Sample ID	**320-51746-1**	**320-51904-5**	**320-51904-6**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<4	<4	<4
PFMOAA	<5 UJ	<210 UJ	<210
PFO2HxA	<2 UJ	<81 UJ	<81
PFO3OA	<2 UJ	<58 UJ	<58
PFO4DA	<2 UJ	<79 UJ	<79
PFO5DA	<2 UJ	**58 J**	**59**
PMPA	<10 UJ	<570 UJ	<570
PEPA	<20 UJ	<47 UJ	<47
PFESA-BP1	<2 UJ	<27 UJ	<27
PFESA-BP2	<2 UJ	<30 UJ	<30
Byproduct 4	<2 UJ	<160 UJ	<160
Byproduct 5	<2 UJ	<58 UJ	<58
Byproduct 6	<2 UJ	<15 UJ	<15
NVHOS	<2 UJ	<54 UJ	<54
EVE Acid	<2 UJ	<24 UJ	<24
Hydro-EVE Acid	<2 UJ	<28 UJ	<28
R-EVE	<2 UJ	<70 UJ	<70
PES	<2 UJ	<46 UJ	<46
PFECA B	<2 UJ	<60 UJ	<60
PFECA-G	<2 UJ	<41 UJ	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2
PFOA	<2	<2	<2
PFOS	<2	<2	<2

Notes:
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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**GW0619-EQBLK-070119**	**GW0619-EQBLK-070219**	**GW0619-EQBLK-070319**
Sample Date	**7/1/2019**	**7/2/2019**	**7/3/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52028-1**	**320-52028-1**	**320-52030-1**
Lab Sample ID	**320-52028-5**	**320-52028-6**	**320-52030-5**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<4	<4	<4
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2 UJ
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	<20	<20	<20
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2
PFOA	<2	<2	<2
PFOS	<2	<2	<2

Notes:
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
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TABLE 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**GW0619-EB-02-072319**	**GW0619-EB-072519**	**EB-09119-01**	**EB-09119-02**
Sample Date	**7/23/2019**	**7/25/2019**	**9/11/2019**	**9/11/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-52722-1**	**320-52722-1**	**320-54299-1**	**320-54299-1**
Lab Sample ID	**320-52722-5**	**320-52722-6**	**320-54299-2**	**320-54299-3**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<4	<4
PFMOAA	<210	<210	<5	<5
PFO2HxA	<81	<81	<2	<2
PFO3OA	<58	<58	<2	<2
PFO4DA	<79	<79	<2	<2
PFO5DA	<34	<34	<2	<2
PMPA	<570	<570	<10	<10
PEPA	<47	<47	<20	<20
PFESA-BP1	<27	<27	<2	<2
PFESA-BP2	<30	<30	<2	<2
Byproduct 4	<160	<160	<2	<2
Byproduct 5	<58	<58	<2	<2
Byproduct 6	<15	<15	<2	<2
NVHOS	<54	<54	<2	<2
EVE Acid	<24	<24	<2	<2
Hydro-EVE Acid	<28	<28	<2	<2
R-EVE	<70	<70	<2	<2
PES	<46	<46	<2	<2
PFECA B	<60	<60	<2	<2
PFECA-G	<41	<41	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	<2	<2
11Cl-PF3OUdS	--	--	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<4	<4
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
9Cl-PF3ONS	--	--	<2	<2
ADONA	--	--	<2.1	<2.1
NaDONA	--	--	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	<2	<2
N-methyl perfluoro-1-octanesulfonamide	--	--	<2	<2
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorobutanoic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluoroheptanoic Acid	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	<2
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2
Perfluorohexanoic Acid	<2	<2	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
Perfluoropentanoic Acid	<2	<2	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
PFOA	<2	<2	<2	<2
PFOS	<2	<2	<2	<2

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**EB-091219-01**	**EB-091219-02**	**EB-091319**	**GW4Q19-EQBLK-01-101819**
Sample Date	**9/12/2019**	**9/12/2019**	**9/13/2019**	**10/18/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**Liquid**	**LIQUID**
SDG	**320-54294-1**	**320-54294-1**	**320-54328-1**	**320-55686-1**
Lab Sample ID	**320-54294-1**	**320-54294-2**	**320-54328-1**	**320-55686-2**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	<4	<4	<4	2.3
PFMOAA	<5	<5	<5	<5
PFO2HxA	<2	<2	<2	<2
PFO3OA	<2	<2	<2	<2
PFO4DA	<2	<2	<2	<2
PFO5DA	<2	<2	<2	<2
PMPA	<10	<10	<10	<10
PEPA	<20	<20	<20	<20
PFESA-BP1	<2	<2	<2	<2
PFESA-BP2	<2	<2	<2	<2
Byproduct 4	<2	<2	<2	<2
Byproduct 5	<2	<2	<2	<2
Byproduct 6	<2	<2	<2	<2
NVHOS	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	<2
R-EVE	<2	<2	<2	<2
PES	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	<2	<2	<2	--
11Cl-PF3OUdS	<2	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	<4	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	--
9Cl-PF3ONS	<2	<2	<2	--
ADONA	<2.1	<2.1	<2.1	--
NaDONA	<2.1	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	--
N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	--
Perfluorobutane Sulfonic Acid	<2	<2	<2	--
Perfluorobutanoic Acid	<2	<2	<2	--
Perfluorodecane Sulfonic Acid	<2	<2	<2	--
Perfluorodecanoic Acid	<2	<2	<2	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	--
Perfluorododecanoic Acid	<2	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	--
Perfluoroheptanoic Acid	<2	<2	<2	--
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	--
Perfluorohexanoic Acid	<2	<2	<2	--
Perfluorononanesulfonic acid	<2	<2	<2	--
Perfluorononanoic Acid	<2	<2	<2	--
Perfluorooctadecanoic acid	<2	<2	<2	--
Perfluorooctane Sulfonamide	<2	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	--
Perfluoropentanoic Acid	<2	<2	<2	--
Perfluorotetradecanoic Acid	<2	<2	<2	--
Perfluorotridecanoic Acid	<2	<2	<2	--
Perfluoroundecanoic Acid	<2	<2	<2	--
PFOA	<2	<2	<2	--
PFOS	<2	<2	<2	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--
Location ID	**EQBLK**	**EQBLK**	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-EQBLK-01-102819**	**GW4Q19-EQBLK-02-102819**	**GW0619-FB-01-072319**	**FBLK-090919**
Sample Date	**10/28/2019**	**10/28/2019**	**7/23/2019**	**9/9/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Field Blank**	**Field Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55757-1**	**320-55757-1**	**320-52722-1**	**320-54174-1**
Lab Sample ID	**320-55757-1**	**320-55757-2**	**320-52722-4**	**320-54174-4**
Table 3+ Lab SOP (ng/L)				
Hfpo Dimer Acid	2.1	3.7	<4	<4
PFMOAA	<5	<5	<210	<210
PFO2HxA	<2	<2	<81	<81
PFO3OA	<2	<2	<58	<58
PFO4DA	<2	<2	<79	<79
PFO5DA	<2	<2	<34	<34 UJ
PMPA	<10	<10	<570	<570
PEPA	<20	<20	<47	<47
PFESA-BP1	<2	<2	<27	<27
PFESA-BP2	<2	<2	<30	<30
Byproduct 4	<2	<2	<160	<160
Byproduct 5	<2	<2	<58	<58
Byproduct 6	<2	<2	<15	<15
NVHOS	<2	<2	<54	<54
EVE Acid	<2	<2	<24	<24
Hydro-EVE Acid	<2	<2	<28	<28
R-EVE	<2	<2	<70	<70
PES	<2	<2	<46	<46
PFECA B	<2	<2	<60	<60
PFECA-G	<2	<2	<41	<41
Other PFAS (ng/L)				
10:2 Fluorotelomer sulfonate	--	--	--	<2
11Cl-PF3OUdS	--	--	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	<20
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<4
6:2 Fluorotelomer sulfonate	--	--	<20	<20
9Cl-PF3ONS	--	--	--	<2
ADONA	--	--	--	<2.1
NaDONA	--	--	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	--	--	<2
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
Perfluorobutane Sulfonic Acid	--	--	<2	<2
Perfluorobutanoic Acid	--	--	<2	<2
Perfluorodecane Sulfonic Acid	--	--	<2	<2
Perfluorodecanoic Acid	--	--	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	<2
Perfluorododecanoic Acid	--	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	<2
Perfluoroheptanoic Acid	--	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	<2
Perfluorohexane Sulfonic Acid	--	--	<2	<2
Perfluorohexanoic Acid	--	--	<2	<2
Perfluorononanesulfonic acid	--	--	<2	<2
Perfluorononanoic Acid	--	--	<2	<2
Perfluorooctadecanoic acid	--	--	<2	<2
Perfluorooctane Sulfonamide	--	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	<2
Perfluoropentanoic Acid	--	--	<2	<2
Perfluorotetradecanoic Acid	--	--	<2	<2
Perfluorotridecanoic Acid	--	--	<2	<2
Perfluoroundecanoic Acid	--	--	<2	<2
PFOA	--	--	<2	<2
PFOS	--	--	<2	<2

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**FB-091019-01**	**FB-091119**	**FB-091219**	**FB-091319**	**GW4Q19-FBLK-01-101819**
Sample Date	**9/10/2019**	**9/11/2019**	**9/12/2019**	**9/13/2019**	**10/18/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**	**Field Blank**	**Field Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**	**Liquid**	**LIQUID**
SDG	**320-54176-1**	**320-54299-1**	**320-54294-1**	**320-54328-1**	**320-55686-1**
Lab Sample ID	**320-54176-4**	**320-54299-1**	**320-54294-3**	**320-54328-4**	**320-55686-3**
Table 3+ Lab SOP (ng/L)					
Hfpo Dimer Acid	<4	<4	<4	<4	4.8
PFMOAA	<210	<5	<5	<5	<5
PFO2HxA	<81	<2	<2	<2	<2
PFO3OA	<58	<2	<2	<2	<2
PFO4DA	<79	<2	<2	<2	<2
PFO5DA	<34	<2	<2	<2	<2
PMPA	**570**	<10	<10	<10	<10
PEPA	<47	<20	<20	<20	<20
PFESA-BP1	<27	<2	<2	<2	<2
PFESA-BP2	<30	<2	<2	<2	<2
Byproduct 4	<160	<2	<2	<2	<2
Byproduct 5	<58	<2	<2	<2	<2
Byproduct 6	<15	<2	<2	<2	<2
NVHOS	<54	<2	<2	<2	<2
EVE Acid	<24	<2	<2	<2	<2
Hydro-EVE Acid	<28	<2	<2	<2	<2
R-EVE	<70	<2	<2	<2	<2
PES	<46	<2	<2	<2	<2
PFECA B	<60	<2	<2	<2	<2
PFECA-G	<41	<2	<2	<2	<2
Other PFAS (ng/L)					
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2	--
11Cl-PF3OUdS	<2	<2	<2	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	<4	<4	<4	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	--
9Cl-PF3ONS	<2	<2	<2	<2	--
ADONA	<2.1	<2.1	<2.1	<2.1	--
NaDONA	<2.1	<2.1	<2.1	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	<2	--
N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	<2	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2	--
Perfluorobutanoic Acid	<2	<2	<2	<2	--
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	--
Perfluorodecanoic Acid	<2	<2	<2	<2	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	--
Perfluorododecanoic Acid	<2	<2	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	--
Perfluoroheptanoic Acid	<2	<2	<2	<2	--
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	<2	--
Perfluorohexanoic Acid	<2	<2	<2	<2	--
Perfluorononanesulfonic acid	<2	<2	<2	<2	--
Perfluorononanoic Acid	<2	<2	<2	<2	--
Perfluorooctadecanoic acid	<2	<2	<2	<2	--
Perfluorooctane Sulfonamide	<2	<2	<2	<2	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	--
Perfluoropentanoic Acid	<2	<2	<2	<2	--
Perfluorotetradecanoic Acid	<2	<2	<2	<2	--
Perfluorotridecanoic Acid	<2	<2	<2	<2	--
Perfluoroundecanoic Acid	<2	<2	<2	<2	--
PFOA	<2	<2	<2	<2	--
PFOS	<2	<2	<2	<2	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-102319**	**GW4Q19-FBLK-01-102819**	**GW4Q19-FBLK-01-102919**
Sample Date	**10/23/2019**	**10/28/2019**	**10/29/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55683-1**	**320-55757-1**	**320-55854-1**
Lab Sample ID	**320-55683-10**	**320-55757-5**	**320-55854-6**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<86	<2	<2
PFMOAA	<210	<5	<5
PFO2HxA	<81	<2	<2
PFO3OA	<58	<2	<2
PFO4DA	<79	<2	<2
PFO5DA	<34	<2	<2 UJ
PMPA	<570	<10	<10
PEPA	<47	<20	<20
PFESA-BP1	<27	<2	<2
PFESA-BP2	<30	<2	<2
Byproduct 4	<160	<2	<2
Byproduct 5	<58	<2	<2
Byproduct 6	<15	<2	<2
NVHOS	<54	<2	<2
EVE Acid	<24	<2	<2
Hydro-EVE Acid	<28	<2	<2
R-EVE	<70	<2	<2
PES	<46	<2	<2
PFECA B	<60	<2	<2
PFECA-G	<41	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-103019**	**GW4Q19-FBLK-01-103119**	**GW4Q19-FBLK-01-110119**
Sample Date	**10/30/2019**	**10/31/2019**	**11/1/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-55860-1**	**320-55909-1**	**320-56112-1**
Lab Sample ID	**320-55860-6**	**320-55909-7**	**320-56112-1**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<2	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2 UJ
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-110419**	**GW4Q19-FBLK-01-110519**	**GW4Q19-FBLK-01-110619**
Sample Date	**11/4/2019**	**11/5/2019**	**11/6/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**
Sample Matrix	**LIQUID**	**LIQUID**	**LIQUID**
SDG	**320-56112-1**	**320-56112-1**	**320-56117-1**
Lab Sample ID	**320-56112-6**	**320-56112-8**	**320-56117-1**
Table 3+ Lab SOP (ng/L)			
Hfpo Dimer Acid	<2 UJ	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
11Cl-PF3OUdS	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
9Cl-PF3ONS	--	--	--
ADONA	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--

Notes:
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 9-3
ONSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	**--**
Location ID	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-110819**
Sample Date	**11/8/2019**
QA/QC	**Field Blank**
Sample Matrix	**LIQUID**
SDG	**320-56173-1**
Lab Sample ID	**320-56173-4**
Table 3+ Lab SOP (ng/L)	
Hfpo Dimer Acid	<2
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
Other PFAS (ng/L)	
10:2 Fluorotelomer sulfonate	--
11Cl-PF3OUdS	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--
6:2 Fluorotelomer sulfonate	--
9Cl-PF3ONS	--
ADONA	--
NaDONA	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--
N-ethylperfluoro-1-octanesulfonamide	--
N-methyl perfluoro-1-octanesulfonamide	--
N-methyl perfluorooctane sulfonamidoacetic acid	--
Perfluorobutane Sulfonic Acid	--
Perfluorobutanoic Acid	--
Perfluorodecane Sulfonic Acid	--
Perfluorodecanoic Acid	--
Perfluorododecane sulfonic acid (PFDoS)	--
Perfluorododecanoic Acid	--
Perfluoroheptane sulfonic acid (PFHpS)	--
Perfluoroheptanoic Acid	--
Perfluorohexadecanoic acid (PFHxDA)	--
Perfluorohexane Sulfonic Acid	--
Perfluorohexanoic Acid	--
Perfluorononanesulfonic acid	--
Perfluorononanoic Acid	--
Perfluorooctadecanoic acid	--
Perfluorooctane Sulfonamide	--
Perfluoropentane sulfonic acid (PFPeS)	--
Perfluoropentanoic Acid	--
Perfluorotetradecanoic Acid	--
Perfluorotridecanoic Acid	--
Perfluoroundecanoic Acid	--
PFOA	--
PFOS	--

Notes:
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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 A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	BLADEN-1D	BLADEN-1D	BLADEN-1D
Field Sample ID	BLADEN-1D-082719	DUP-1-082719	GW4Q19-BLADEN-1D-110719
Sample Date	8/27/2019	8/27/2019	11/7/2019
QA/QC	--	Field Duplicate	--
Sample Delivery Group	280-127778-1	280-127778-1	320-56173-1
Lab Sample ID	280-127778-1	280-127778-2	320-56173-3
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**180**	**190**	**140**
PFMOAA	**33**	**30**	**24 J**
PFO2HxA	**81**	**80**	**87**
PFO3OA	**6.2**	**6.2**	**7.3**
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	**330**	**330**	**370**
PEPA	**110**	**110**	**110**
PFESA-BP1	<2	<2	<2
PFESA-BP2	**0.48 J**	**0.48 J**	<2
Byproduct 4	**13 J**	**11 J**	**7**
Byproduct 5	<2	<2	<2
Byproduct 6	<2	<2	<2
NVHOS	**2.2**	**1.9 J**	**2**
EVE Acid	<2	<2	<2
Hydro-EVE Acid	<2	**0.31 J**	<2
R-EVE	**6.2**	**5.7**	**4.2**
PES	<2	<2	<2
PFECA B	<2	<2	<2
PFECA-G	<2	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<1.7	<1.7	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<17	<17	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<17	<17	--
6:2 Fluorotelomer sulfonate	<17	<17	--
ADONA	<1.7	<1.7	--
F-53B Major	<1.7	<1.7	--
F-53B Minor	<1.7	<1.7	--
NaDONA	<1.7	<1.7	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<17	<17	--
N-methyl perfluorooctane sulfonamidoacetic acid	<17	<17	--
Perfluorobutane Sulfonic Acid	**0.43 J**	**0.39 J**	**--**
Perfluorobutanoic Acid	**3.6**	**3.6**	**--**
Perfluorodecane Sulfonic Acid	<1.7	<1.7	--
Perfluorodecanoic Acid	<1.7	<1.7	--
Perfluorododecane sulfonic acid (PFDoS)	<1.7	<1.7	--
Perfluorododecanoic Acid	<1.7	<1.7	--
Perfluoroheptane sulfonic acid (PFHpS)	<1.7	<1.7	--
Perfluoroheptanoic Acid	**0.27 J**	**0.26 J**	**--**
Perfluorohexadecanoic acid (PFHxDA)	<1.7	<1.7	--
Perfluorohexane Sulfonic Acid	**0.33 B**	**0.32 B**	**--**
Perfluorohexanoic Acid	**1.1 J**	**1.1 J**	**--**
Perfluorononanesulfonic acid	<1.7	<1.7	--
Perfluorononanoic Acid	<1.7	<1.7	--
Perfluorooctadecanoic acid	<1.7	<1.7	--
Perfluorooctane Sulfonamide	**0.48 J**	<1.7	**--**
Perfluoropentane sulfonic acid (PFPeS)	<1.7	<1.7	--
Perfluoropentanoic Acid	**3.9**	**3.8**	**--**
Perfluorotetradecanoic Acid	**0.36 B**	<1.7	**--**
Perfluorotridecanoic Acid	<1.7	<1.7	--
Perfluoroundecanoic Acid	<1.7	<1.7	--
PFOA	<1.7	<1.7	--
PFOS	<1.7	<1.7	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1.7	<1.7	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<3.3	<3.3	--
N-ethylperfluoro-1-octanesulfonamide	<1.7	<1.7	--
N-methyl perfluoro-1-octanesulfonamide	<1.7	<1.7	--

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	BLADEN-2S	BLADEN-2S	BLADEN-2D
Field Sample ID	BLADEN-2S-082719	GW4Q19-BLADEN-2S-102219	BLADEN-2D-082719
Sample Date	8/27/2019	10/22/2019	8/27/2019
QA/QC	--	--	--
Sample Delivery Group	280-127778-1	320-55686-1	280-127778-1
Lab Sample ID	280-127778-3	320-55686-4	280-127778-4
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**4.6**	**8.5 B**	**11**
PFMOAA	**11**	**22 J**	<5
PFO2HxA	**19 J**	**31**	**6.3**
PFO3OA	**1.8 J**	<2	**0.96 J**
PFO4DA	**1.5 J**	<2	<2
PFO5DA	**0.53**	<2	<2
PMPA	**68**	**60**	**77 J**
PEPA	**6.8 J**	<20	**12 J**
PFESA-BP1	<2	<2	<2
PFESA-BP2	**14**	**11**	**3.9**
Byproduct 4	<2	**5.2**	<2
Byproduct 5	<2	<2	<2
Byproduct 6	<2	<2	<2
NVHOS	**1.5 J**	<2	<2
EVE Acid	<2	<2	<2
Hydro-EVE Acid	**0.36**	<2	<2
R-EVE	<2	**3.5**	<2
PES	<2	<2	<2
PFECA B	<2	<2	<2
PFECA-G	<2	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<1.7	--	<1.7
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<17	--	<17
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<17	--	<17
6:2 Fluorotelomer sulfonate	<17	--	<17
ADONA	<1.8	--	<1.8
F-53B Major	<1.7	--	<1.7
F-53B Minor	<1.7	--	<1.7
NaDONA	<1.8	--	<1.8
N-ethyl perfluorooctane sulfonamidoacetic acid	<17	--	<17
N-methyl perfluorooctane sulfonamidoacetic acid	<17	--	<17
Perfluorobutane Sulfonic Acid	**1.3 J**	--	**1.5 J**
Perfluorobutanoic Acid	**3.4**	--	**2.1 J**
Perfluorodecane Sulfonic Acid	<1.7	--	<1.7
Perfluorodecanoic Acid	<1.7	--	<1.7
Perfluorododecane sulfonic acid (PFDoS)	<1.7	--	<1.7
Perfluorododecanoic Acid	<1.7	--	<1.7
Perfluoroheptane sulfonic acid (PFHpS)	**0.26 J**	--	<1.7
Perfluoroheptanoic Acid	**0.43 J**	--	**0.22 J**
Perfluorohexadecanoic acid (PFHxDA)	<1.7	--	<1.7
Perfluorohexane Sulfonic Acid	**1.1 B**	--	**0.52 B**
Perfluorohexanoic Acid	**0.62 J**	--	<1.7
Perfluorononanesulfonic acid	<1.7	--	<1.7
Perfluorononanoic Acid	<1.7	--	<1.7
Perfluorooctadecanoic acid	<1.7	--	<1.7
Perfluorooctane Sulfonamide	**0.48 J**	--	<1.7
Perfluoropentane sulfonic acid (PFPeS)	<1.7	--	<1.7
Perfluoropentanoic Acid	**0.98 J**	--	**0.46 J**
Perfluorotetradecanoic Acid	**0.24 B**	--	<1.7
Perfluorotridecanoic Acid	<1.7	--	<1.7
Perfluoroundecanoic Acid	<1.7	--	<1.7
PFOA	**1.3 J**	--	<1.7
PFOS	**3.7**	--	**0.6 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1.7	--	<1.7
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<3.4	--	<3.4
N-ethylperfluoro-1-octanesulfonamide	<1.7	--	<1.7
N-methyl perfluoro-1-octanesulfonamide	<1.7	--	<1.7

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	**BLADEN-2D**	**BLADEN-3S**	**BLADEN-3S**
Field Sample ID	**GW4Q19-Bladen-2D-102919**	**BLADEN-3S-082819**	**GW4Q19-BLADEN-3S-102819**
Sample Date	**10/29/2019**	**8/28/2019**	**10/28/2019**
QA/QC	**--**	**--**	**--**
Sample Delivery Group	**320-55854-1**	**280-127778-1**	**320-55757-1**
Lab Sample ID	**320-55854-5**	**280-127778-5**	**320-55757-3**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<2	**12**	**29**
PFMOAA	<5	**15**	**21**
PFO2HxA	<2	**31**	**59**
PFO3OA	<2	**3.8**	**5.7**
PFO4DA	<2	**3.1**	**3.9**
PFO5DA	<2 UJ	**0.98 J**	<2
PMPA	<10	**39**	**93**
PEPA	<20	**5.6 J**	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	**3.6**	**8.3**
Byproduct 4	<2	**1.9 J**	<2
Byproduct 5	<2	<2	<2
Byproduct 6	<2	<2	<2
NVHOS	<2	<2	<2
EVE Acid	<2	<2	<2
Hydro-EVE Acid	<2	**0.46 J**	<2
R-EVE	<2	<2	<2
PES	<2	<2	<2
PFECA B	<2	<2	<2
PFECA-G	<2	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<1.7	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<17	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<17	--
6:2 Fluorotelomer sulfonate	--	<17	--
ADONA	--	<1.8	--
F-53B Major	--	<1.7	--
F-53B Minor	--	<1.7	--
NaDONA	--	<1.8	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<17	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<17	--
Perfluorobutane Sulfonic Acid	--	**0.26 J**	--
Perfluorobutanoic Acid	--	**2.1**	--
Perfluorodecane Sulfonic Acid	--	<1.7	--
Perfluorodecanoic Acid	--	<1.7	--
Perfluorododecane sulfonic acid (PFDoS)	--	<1.7	--
Perfluorododecanoic Acid	--	<1.7	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<1.7	--
Perfluoroheptanoic Acid	--	**0.81 J**	--
Perfluorohexadecanoic acid (PFHxDA)	--	<1.7	--
Perfluorohexane Sulfonic Acid	--	**0.27 B**	--
Perfluorohexanoic Acid	--	**0.65 J**	--
Perfluorononanesulfonic acid	--	<1.7	--
Perfluorononanoic Acid	--	**0.38 J**	--
Perfluorooctadecanoic acid	--	<1.7	--
Perfluorooctane Sulfonamide	--	**0.33 J**	--
Perfluoropentane sulfonic acid (PFPeS)	--	<1.7	--
Perfluoropentanoic Acid	--	**0.93 J**	--
Perfluorotetradecanoic Acid	--	<1.7	--
Perfluorotridecanoic Acid	--	<1.7	--
Perfluoroundecanoic Acid	--	<1.7	--
PFOA	--	**2**	--
PFOS	--	**2.2**	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<1.7	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<3.4	--
N-ethylperfluoro-1-octanesulfonamide	--	<1.7	--
N-methyl perfluoro-1-octanesulfonamide	--	<1.7	--

Notes:
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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.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	**BLADEN-3D**	**BLADEN-3D**	**BLADEN-4S**
Field Sample ID	**BLADEN-3D-082819**	**GW4Q19-BLADEN-3D-102819**	**BLADEN-4S-082819**
Sample Date	**8/28/2019**	**10/28/2019**	**8/28/2019**
QA/QC	**--**	**--**	**--**
Sample Delivery Group	**280-127778-1**	**320-55757-1**	**280-127778-1**
Lab Sample ID	**280-127778-6**	**320-55757-4**	**280-127778-10**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**2.2 J**	<2	<3.7
PFMOAA	<5	<5	<5
PFO2HxA	**1.3 J**	<2	**3**
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	**14**	<10	**12**
PEPA	**2.1 J**	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	**0.63 J**	<2	**1.5 J**
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<1.8	--	<1.8
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<18	--	<18
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<18	--	<18
6:2 Fluorotelomer sulfonate	<18	--	<18
ADONA	<1.9	--	<1.9
F-53B Major	<1.8	--	<1.8
F-53B Minor	<1.8	--	<1.8
NaDONA	<1.9	--	<1.9
N-ethyl perfluorooctane sulfonamidoacetic acid	<18	--	<18
N-methyl perfluorooctane sulfonamidoacetic acid	<18	--	<18
Perfluorobutane Sulfonic Acid	**0.33 J**	**--**	**0.5 J**
Perfluorobutanoic Acid	<1.8	**--**	**1.1 J**
Perfluorodecane Sulfonic Acid	<1.8	--	<1.8
Perfluorodecanoic Acid	<1.8	--	<1.8
Perfluorododecane sulfonic acid (PFDoS)	<1.8	--	<1.8
Perfluorododecanoic Acid	<1.8	--	<1.8
Perfluoroheptane sulfonic acid (PFHpS)	<1.8	--	<1.8
Perfluoroheptanoic Acid	<1.8	**--**	**0.48 J**
Perfluorohexadecanoic acid (PFHxDA)	<1.8	--	<1.8
Perfluorohexane Sulfonic Acid	**0.26 B**	**--**	**0.76 B**
Perfluorohexanoic Acid	<1.8	**--**	**0.75 J**
Perfluorononanesulfonic acid	<1.8	--	<1.8
Perfluorononanoic Acid	<1.8	--	<1.8
Perfluorooctadecanoic acid	<1.8	--	<1.8
Perfluorooctane Sulfonamide	<1.8	**--**	<1.8
Perfluoropentane sulfonic acid (PFPeS)	<1.8	--	<1.8
Perfluoropentanoic Acid	<1.8	**--**	**0.8 J**
Perfluorotetradecanoic Acid	<1.8	**--**	<1.8
Perfluorotridecanoic Acid	<1.8	--	<1.8
Perfluoroundecanoic Acid	<1.8	--	<1.8
PFOA	<1.8	--	**1.5 J**
PFOS	<1.8	--	**4.8**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1.8	--	<1.8
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<3.5	--	<3.7
N-ethylperfluoro-1-octanesulfonamide	<1.8	--	<1.8
N-methyl perfluoro-1-octanesulfonamide	<1.8	--	<1.8

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**BLADEN-4S**	**BLADEN-4D**	**BLADEN-4D**
Field Sample ID	**GW4Q19-BLADEN-4S-102219**	**BLADEN-4D-082819**	**GW4Q19-BLADEN-4D-102519**
Sample Date	**10/22/2019**	**8/28/2019**	**10/25/2019**
QA/QC	**--**	**--**	**--**
Sample Delivery Group	**320-55686-1**	**280-127778-1**	**320-55754-1**
Lab Sample ID	**320-55686-6**	**280-127778-7**	**320-55754-1**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**2.7 B**	<3.6	<2
PFMOAA	<5 UJ	<5 UJ	<5 UJ
PFO2HxA	**3.1**	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2 UJ	<2
PMPA	<10	**9.2 J**	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<1.8	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<18	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<18	--
6:2 Fluorotelomer sulfonate	--	<18	--
ADONA	--	<1.9	--
F-53B Major	--	<1.7	--
F-53B Minor	--	<1.7	--
NaDONA	--	<1.9	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<18	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<18	--
Perfluorobutane Sulfonic Acid	--	<1.8	--
Perfluorobutanoic Acid	--	<1.8	--
Perfluorodecane Sulfonic Acid	--	<1.8	--
Perfluorodecanoic Acid	--	<1.8	--
Perfluorododecane sulfonic acid (PFDoS)	--	<1.8	--
Perfluorododecanoic Acid	--	<1.8	--
Perfluoroheptane sulfonic acid (PFHpS)	--	<1.8	--
Perfluoroheptanoic Acid	--	<1.8	--
Perfluorohexadecanoic acid (PFHxDA)	--	<1.8	--
Perfluorohexane Sulfonic Acid	--	**0.26 B**	--
Perfluorohexanoic Acid	--	<1.8	--
Perfluorononanesulfonic acid	--	<1.8	--
Perfluorononanoic Acid	--	<1.8	--
Perfluorooctadecanoic acid	--	<1.8	--
Perfluorooctane Sulfonamide	--	<0.57	--
Perfluoropentane sulfonic acid (PFPeS)	--	<1.8	--
Perfluoropentanoic Acid	--	<1.8	--
Perfluorotetradecanoic Acid	--	<1.8	--
Perfluorotridecanoic Acid	--	<1.8	--
Perfluoroundecanoic Acid	--	<1.8	--
PFOA	--	<1.8	--
PFOS	--	<1.8	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<1.7	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<3.4	--
N-ethylperfluoro-1-octanesulfonamide	--	<1.7	--
N-methyl perfluoro-1-octanesulfonamide	--	<1.7	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	CUMBERLAND-1S	CUMBERLAND-1S	CUMBERLAND-1D
Field Sample ID	CUMBER-1S-09162019	GW4Q19-CUMBERLAND-1S-102419	CUMBER-1D-09162019
Sample Date	9/16/2019	10/24/2019	9/16/2019
QA/QC	--	--	--
Sample Delivery Group	320-54439-1	320-55761-1	320-54439-1
Lab Sample ID	320-54439-1	320-55761-3	320-54439-2
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<3.7	<2	<3.8
PFMOAA	<5	<5 UJ	<5 UJ
PFO2HxA	**11**	**8.5**	<2
PFO3OA	**1.9 J**	<2	<2
PFO4DA	**0.81 J**	<2	<2
PFO5DA	<2 UJ	<2	<2 UJ
PMPA	**13**	**16**	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	**1.8 J**	**2.3**	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<1.9	--	<1.9
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<19	--	<19
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<19	--	<19
6:2 Fluorotelomer sulfonate	<19	--	<19
ADONA	<2	--	<2
F-53B Major	<1.9	--	<1.9
F-53B Minor	<1.9	--	<1.9
NaDONA	<2	--	<2
N-ethyl perfluorooctane sulfonamidoacetic acid	<19	--	<19
N-methyl perfluorooctane sulfonamidoacetic acid	<19	--	<19
Perfluorobutane Sulfonic Acid	**35**	--	<1.9
Perfluorobutanoic Acid	**7**	--	**0.52 J**
Perfluorodecane Sulfonic Acid	<1.9	--	<1.9
Perfluorodecanoic Acid	<1.9	--	<1.9
Perfluorododecane sulfonic acid (PFDoS)	<1.9	--	<1.9
Perfluorododecanoic Acid	<1.9	--	<1.9
Perfluoroheptane sulfonic acid (PFHpS)	**0.32 J**	--	<1.9
Perfluoroheptanoic Acid	**4.4**	--	**0.47 J**
Perfluorohexadecanoic acid (PFHxDA)	<1.9	--	<1.9
Perfluorohexane Sulfonic Acid	**2.8**	--	**0.6 B**
Perfluorohexanoic Acid	**6.4**	--	**0.87 J**
Perfluorononanesulfonic acid	<1.9	--	<1.9
Perfluorononanoic Acid	**0.93 J**	--	<1.9
Perfluorooctadecanoic acid	<1.9	--	<1.9
Perfluorooctane Sulfonamide	**1 B**	--	**0.88 B**
Perfluoropentane sulfonic acid (PFPeS)	**0.35 J**	--	<1.9
Perfluoropentanoic Acid	**6.5**	--	<1.9
Perfluorotetradecanoic Acid	<1.9	--	<1.9
Perfluorotridecanoic Acid	<1.9	--	<1.9
Perfluoroundecanoic Acid	<1.9	--	<1.9
PFOA	**13**	--	<1.9
PFOS	**15**	--	**0.61 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1.9	--	<1.9
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<3.7	--	<3.8
N-ethylperfluoro-1-octanesulfonamide	<1.9	--	<1.9
N-methyl perfluoro-1-octanesulfonamide	<1.9	--	<1.9

Notes:
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
SOP - standard operating procedure
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	CUMBERLAND-1D	CUMBERLAND-1D
Field Sample ID	GW4Q19-CUMBERLAND-1D-102419	GW4Q19-CUMBERLAND-1D-102419-D
Sample Date	10/24/2019	10/24/2019
QA/QC	--	Field Duplicate
Sample Delivery Group	320-55761-1	320-55761-1
Lab Sample ID	320-55761-1	320-55761-2
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	**5**	**4.8**
PFMOAA	<5	<5
PFO2HxA	<2	<2
PFO3OA	<2	<2
PFO4DA	<2	<2
PFO5DA	<2	<2
PMPA	<10	<10
PEPA	<20	<20
PFESA-BP1	<2	<2
PFESA-BP2	<2	<2
Byproduct 4	<2	<2
Byproduct 5	**2.5 J**	**2.4 J**
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	<2 UJ	<2
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--
6:2 Fluorotelomer sulfonate	--	--
ADONA	--	--
F-53B Major	--	--
F-53B Minor	--	--
NaDONA	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--
Perfluorobutane Sulfonic Acid	--	--
Perfluorobutanoic Acid	--	--
Perfluorodecane Sulfonic Acid	--	--
Perfluorodecanoic Acid	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--
Perfluorododecanoic Acid	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--
Perfluoroheptanoic Acid	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--
Perfluorohexane Sulfonic Acid	--	--
Perfluorohexanoic Acid	--	--
Perfluorononanesulfonic acid	--	--
Perfluorononanoic Acid	--	--
Perfluorooctadecanoic acid	--	--
Perfluorooctane Sulfonamide	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--
Perfluoropentanoic Acid	--	--
Perfluorotetradecanoic Acid	--	--
Perfluorotridecanoic Acid	--	--
Perfluoroundecanoic Acid	--	--
PFOA	--	--
PFOS	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--

Notes:
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
SOP - standard operating procedure
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	CUMBERLAND-2S	CUMBERLAND-2S	CUMBERLAND-2D
Field Sample ID	Cumber-2S-09162019	GW4Q19-CUMBERLAND-2S-102319	Cumber-2D-09162019
Sample Date	9/16/2019	10/23/2019	9/16/2019
QA/QC	--	--	--
Sample Delivery Group	320-54378-1	320-55683-1	320-54378-1
Lab Sample ID	320-54378-7	320-55683-1	320-54378-8
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<4 UJ	<86	<4 UJ
PFMOAA	**22**	<210	<5
PFO2HxA	**4.3**	<81	<2
PFO3OA	<2	<58	<2
PFO4DA	<2	<79	<2
PFO5DA	<2	**38**	<2
PMPA	**20**	<570	**10**
PEPA	<20	<47	<20
PFESA-BP1	<2	<27	<2
PFESA-BP2	<2	<30	<2
Byproduct 4	<2	<160	<2
Byproduct 5	<2	<58	<2
Byproduct 6	<2	<15	<2
NVHOS	<2	<54	<2
EVE Acid	<2	<24	<2
Hydro-EVE Acid	<2	<28	<2
R-EVE	<2	<70	<2
PES	<2	<46	<2
PFECA B	<2	<60	<2
PFECA-G	<2	<41	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<2	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	<470
6:2 Fluorotelomer sulfonate	<20	--	<20
ADONA	<2.1	--	<2.1
F-53B Major	<2	--	<2
F-53B Minor	<2	--	<2
NaDONA	<2.1	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	--	<20
Perfluorobutane Sulfonic Acid	<2	--	<2
Perfluorobutanoic Acid	**2.9**	--	<2
Perfluorodecane Sulfonic Acid	<2	--	<2
Perfluorodecanoic Acid	<2	--	<2
Perfluorododecane sulfonic acid (PFDoS)	<2	--	<2
Perfluorododecanoic Acid	<2	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	--	<2
Perfluoroheptanoic Acid	**2.9**	--	**2.7**
Perfluorohexadecanoic acid (PFHxDA)	<2	--	<2
Perfluorohexane Sulfonic Acid	**2.1**	--	**2.9**
Perfluorohexanoic Acid	**3.8**	--	**4.3**
Perfluorononanesulfonic acid	<2	--	<2
Perfluorononanoic Acid	<2	--	<2
Perfluorooctadecanoic acid	<2	--	<2
Perfluorooctane Sulfonamide	<2	--	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	--	<2
Perfluoropentanoic Acid	**3.9**	--	**3.8**
Perfluorotetradecanoic Acid	<2	--	<2
Perfluorotridecanoic Acid	<2	--	<2
Perfluoroundecanoic Acid	<2	--	<2
PFOA	**5**	--	**2.1**
PFOS	**4.3**	--	**4.4**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	--	<4
N-ethylperfluoro-1-octanesulfonamide	<2	--	<2
N-methyl perfluoro-1-octanesulfonamide	<2	--	<2

Notes:
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EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
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SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	**CUMBERLAND-2D**	**CUMBERLAND-3S**
Field Sample ID	**GW4Q19-CUMBERLAND-2D-102519**	**Cumber-3S-09162019**
Sample Date	**10/25/2019**	**9/16/2019**
QA/QC	**--**	**--**
Sample Delivery Group	**320-55754-1**	**320-54378-1**
Lab Sample ID	**320-55754-2**	**320-54378-5**
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	<2	**10 J**
PFMOAA	<5	**30**
PFO2HxA	<2	**63**
PFO3OA	<2	**9.8 J**
PFO4DA	<2	**8.7**
PFO5DA	<2	**7.6**
PMPA	<10	**44**
PEPA	<20	<20
PFESA-BP1	<2	<2
PFESA-BP2	<2	**4**
Byproduct 4	<2	**20 J**
Byproduct 5	<2	<2
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	<2	**11 J**
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<470
6:2 Fluorotelomer sulfonate	--	<20
ADONA	--	<2.1
F-53B Major	--	<2
F-53B Minor	--	<2
NaDONA	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20
Perfluorobutane Sulfonic Acid	**--**	<2
Perfluorobutanoic Acid	**--**	**5.6**
Perfluorodecane Sulfonic Acid	--	<2
Perfluorodecanoic Acid	--	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2
Perfluorododecanoic Acid	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2
Perfluoroheptanoic Acid	**--**	**5**
Perfluorohexadecanoic acid (PFHxDA)	--	<2
Perfluorohexane Sulfonic Acid	**--**	**2.9**
Perfluorohexanoic Acid	**--**	**5.3**
Perfluorononanesulfonic acid	--	<2
Perfluorononanoic Acid	--	**2.2**
Perfluorooctadecanoic acid	--	<2
Perfluorooctane Sulfonamide	**--**	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2
Perfluoropentanoic Acid	**--**	**6.2**
Perfluorotetradecanoic Acid	**--**	<2
Perfluorotridecanoic Acid	--	<2
Perfluoroundecanoic Acid	--	<2
PFOA	--	**10**
PFOS	--	**16**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	CUMBERLAND-3S	CUMBERLAND-3D
Field Sample ID	GW4Q19-CUMBERLAND-3S-102219	Cumber-3D-09162019
Sample Date	10/22/2019	9/16/2019
QA/QC	--	--
Sample Delivery Group	320-55686-1	320-54378-1
Lab Sample ID	320-55686-5	320-54378-6
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	**16 B**	<4 UJ
PFMOAA	**13 J**	**17 J**
PFO2HxA	**40**	<2
PFO3OA	**3**	<2
PFO4DA	<2	<2
PFO5DA	<2	<2
PMPA	**61**	**12**
PEPA	<20	<20
PFESA-BP1	<2	<2
PFESA-BP2	**5.1**	<2
Byproduct 4	<2	<2
Byproduct 5	<2	<2
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	**2.3**	<2
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	<18
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<190
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<480
6:2 Fluorotelomer sulfonate	--	<190
ADONA	--	<2.1
F-53B Major	--	<2
F-53B Minor	--	<2
NaDONA	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20
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	--	**2.2**
Perfluorohexadecanoic acid (PFHxDA)	--	<2
Perfluorohexane Sulfonic Acid	--	<2
Perfluorohexanoic Acid	--	**3.4**
Perfluorononanesulfonic acid	--	<2
Perfluorononanoic Acid	--	<2
Perfluorooctadecanoic acid	--	<2
Perfluorooctane Sulfonamide	--	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2
Perfluoropentanoic Acid	--	**2.9**
Perfluorotetradecanoic Acid	--	<2
Perfluorotridecanoic Acid	--	<2
Perfluoroundecanoic Acid	--	<2
PFOA	--	<2
PFOS	--	**2.6**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	**CUMBERLAND-3D**	**CUMBERLAND-4S**
Field Sample ID	**GW4Q19-CUMBERLAND-3D-102319**	**Cumber-4S-09162019**
Sample Date	**10/23/2019**	**9/16/2019**
QA/QC	**--**	**--**
Sample Delivery Group	**320-55683-1**	**320-54378-1**
Lab Sample ID	**320-55683-5**	**320-54378-2**
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	<86	**110 J**
PFMOAA	<210	**39**
PFO2HxA	<81	**110**
PFO3OA	<58	**18**
PFO4DA	<79	**5.1**
PFO5DA	<34	<2
PMPA	<570	**140**
PEPA	<47	**42**
PFESA-BP1	<27	<2
PFESA-BP2	<30	**4.8**
Byproduct 4	<160	**74 J**
Byproduct 5	<58	<2
Byproduct 6	<15	<2
NVHOS	<54	**2.1**
EVE Acid	<24	<2
Hydro-EVE Acid	<28	<2
R-EVE	<70	**18 J**
PES	<46	<2
PFECA B	<60	<2
PFECA-G	<41	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20
6:2 Fluorotelomer sulfonate	--	<20
ADONA	--	<2.1
F-53B Major	--	<2
F-53B Minor	--	<2
NaDONA	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20
Perfluorobutane Sulfonic Acid	**--**	<2
Perfluorobutanoic Acid	**--**	**8.6**
Perfluorodecane Sulfonic Acid	--	<2
Perfluorodecanoic Acid	--	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2
Perfluorododecanoic Acid	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2
Perfluoroheptanoic Acid	**--**	**2.9**
Perfluorohexadecanoic acid (PFHxDA)	--	<2 UJ
Perfluorohexane Sulfonic Acid	**--**	<2
Perfluorohexanoic Acid	**--**	**3.1**
Perfluorononanesulfonic acid	--	<2
Perfluorononanoic Acid	--	<2
Perfluorooctadecanoic acid	--	<2 UJ
Perfluorooctane Sulfonamide	**--**	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2
Perfluoropentanoic Acid	**--**	**5.2**
Perfluorotetradecanoic Acid	**--**	<2
Perfluorotridecanoic Acid	--	<2
Perfluoroundecanoic Acid	--	<2
PFOA	--	**6**
PFOS	--	**5.9**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	CUMBERLAND-4S	CUMBERLAND-4D
Field Sample ID	GW4Q19-CUMBERLAND-4S-102519	Cumber-4D-09162019
Sample Date	10/25/2019	9/16/2019
QA/QC	--	--
Sample Delivery Group	320-55761-1	320-54378-1
Lab Sample ID	320-55761-5	320-54378-1
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	**76**	<4 UJ
PFMOAA	**15 J**	<5
PFO2HxA	**78 J**	<2
PFO3OA	**14**	<2
PFO4DA	**7.3**	<2
PFO5DA	<2	<2
PMPA	**120 J**	**12**
PEPA	**31**	<20
PFESA-BP1	<2	<2
PFESA-BP2	**5.6**	<2
Byproduct 4	**30 J**	**2.7 J**
Byproduct 5	<2	<2
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	**7.6 J**	<2
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20
6:2 Fluorotelomer sulfonate	--	**29 J**
ADONA	--	<2.1
F-53B Major	--	<2
F-53B Minor	--	<2
NaDONA	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20
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	--	**2.5**
Perfluorohexadecanoic acid (PFHxDA)	--	<2
Perfluorohexane Sulfonic Acid	--	<2
Perfluorohexanoic Acid	--	**3.4**
Perfluorononanesulfonic acid	--	<2
Perfluorononanoic Acid	--	<2
Perfluorooctadecanoic acid	--	<2
Perfluorooctane Sulfonamide	--	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2
Perfluoropentanoic Acid	--	**3.4**
Perfluorotetradecanoic Acid	--	<2
Perfluorotridecanoic Acid	--	<2
Perfluoroundecanoic Acid	--	<2
PFOA	--	<2
PFOS	--	**2.7**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Surficial Aquifer
Location ID	**CUMBERLAND-4D**	**CUMBERLAND-5S**
Field Sample ID	**GW4Q19-CUMBERLAND-4D-102419**	**Cumber-5S-09162019**
Sample Date	**10/24/2019**	**9/16/2019**
QA/QC	**--**	**--**
Sample Delivery Group	**320-55761-1**	**320-54378-1**
Lab Sample ID	**320-55761-4**	**320-54378-4**
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	<2	<4 UJ
PFMOAA	<5	**22**
PFO2HxA	<2	<2
PFO3OA	<2	<2
PFO4DA	<2	<2
PFO5DA	<2	<2
PMPA	<10	**14**
PEPA	<20	<20
PFESA-BP1	<2	<2
PFESA-BP2	<2	<2
Byproduct 4	<2	<2
Byproduct 5	<2	<2
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	<2	<2
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<480
6:2 Fluorotelomer sulfonate	--	<20
ADONA	--	<2.1
F-53B Major	--	<2
F-53B Minor	--	<2
NaDONA	--	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20
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
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Black Creek Aquifer	Surficial Aquifer
Location ID	**CUMBERLAND-5S**	**CUMBERLAND-5D**	**ROBESON-1S**
Field Sample ID	**GW4Q19-CUMBERLAND-5S-102319**	**Cumber-5D-09162019**	**ROBESON-1S-091219**
Sample Date	**10/23/2019**	**9/16/2019**	**9/12/2019**
QA/QC	**--**	**--**	**--**
Sample Delivery Group	**320-55683-1**	**320-54378-1**	**280-128413-1**
Lab Sample ID	**320-55683-7**	**320-54378-3**	**280-128413-1**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<86	<4 UJ	<4 UJ
PFMOAA	<210	<5	**6.3**
PFO2HxA	<81	<2	**6.2**
PFO3OA	<58	<2	<2
PFO4DA	<79	<2	<2
PFO5DA	**50**	<2	<2 UJ
PMPA	<570	<10	**34**
PEPA	<47	<20	<20
PFESA-BP1	<27	<2	<2
PFESA-BP2	<30	<2	**7.1**
Byproduct 4	<160	<2	<2
Byproduct 5	<58	<2	<2
Byproduct 6	<15	<2	<2
NVHOS	<54	<2	<2
EVE Acid	<24	<2	<2
Hydro-EVE Acid	<28	<2	<2
R-EVE	<70	<2	<2
PES	<46	<2	<2
PFECA B	<60	<2	<2
PFECA-G	<41	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<2	<2
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20
6:2 Fluorotelomer sulfonate	--	<20	<20
ADONA	--	<2.1	<2.1
F-53B Major	--	<2	<2
F-53B Minor	--	<2	<2
NaDONA	--	<2.1	<2.1
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20
Perfluorobutane Sulfonic Acid	--	<2	<2
Perfluorobutanoic Acid	--	<2	<2
Perfluorodecane Sulfonic Acid	--	<2	<2
Perfluorodecanoic Acid	--	<2	<2
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2
Perfluorododecanoic Acid	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2
Perfluoroheptanoic Acid	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	<2	<2
Perfluorohexane Sulfonic Acid	--	<2	<2
Perfluorohexanoic Acid	--	<2	<2
Perfluorononanesulfonic acid	--	<2	<2
Perfluorononanoic Acid	--	<2	<2
Perfluorooctadecanoic acid	--	<2	<2
Perfluorooctane Sulfonamide	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2
Perfluoropentanoic Acid	--	<2	<2
Perfluorotetradecanoic Acid	--	<2	<2
Perfluorotridecanoic Acid	--	<2	<2
Perfluoroundecanoic Acid	--	<2	<2
PFOA	--	<2	<2
PFOS	--	<2	**3.5**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	<4
N-ethylperfluoro-1-octanesulfonamide	--	<2 UJ	<2
N-methyl perfluoro-1-octanesulfonamide	--	<2	<2

Notes:
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EPA - Environmental Protection Agency
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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.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**ROBESON-1S**	**ROBESON-1D**	**ROBESON-1D**
Field Sample ID	**GW4Q19-ROBESON-1S-103119**	**ROBESON-1D-091219**	**GW4Q19-ROBESON-1D-103119**
Sample Date	**10/31/2019**	**9/12/2019**	**10/31/2019**
QA/QC	**--**	**--**	**--**
Sample Delivery Group	**320-55909-1**	**280-128413-1**	**320-55909-1**
Lab Sample ID	**320-55909-4**	**280-128413-2**	**320-55909-3**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<2	**6 J**	**3.6 B**
PFMOAA	**7.4**	<5	<5
PFO2HxA	**4.9**	**2.8**	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2 UJ	<2
PMPA	**18**	**35**	**11**
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	**8.7**	**3**	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	<2	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	--
6:2 Fluorotelomer sulfonate	--	<20	--
ADONA	--	<2.1	--
F-53B Major	--	<2	--
F-53B Minor	--	<2	--
NaDONA	--	<2.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	--
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	--	**2.3**	--
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	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<4	--
N-ethylperfluoro-1-octanesulfonamide	--	<2	--
N-methyl perfluoro-1-octanesulfonamide	--	<2	--

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**EquipBlank1-20190912**	**GW4Q19-EQBLK-01-102319**	**GW4Q19-EQBLK-02-102319**
Sample Date	**9/12/2019**	**10/23/2019**	**10/23/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**200-50537-2**	**320-55683-1**	**320-55683-1**
Lab Sample ID	**200-50537-3**	**320-55683-9**	**320-55683-4**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<4	<86	<86
PFMOAA	<5	<210	<210
PFO2HxA	<2	<81	<81
PFO3OA	<2	<58	<58
PFO4DA	<2	<79	<79
PFO5DA	<2	<34	<34
PMPA	<10	<570	<570
PEPA	<20	<47	<47
PFESA-BP1	<2	<27	<27
PFESA-BP2	<2	<30	<30
Byproduct 4	<2	<160	<160
Byproduct 5	<2	<58	<58
Byproduct 6	<2	<15	<15
NVHOS	<2	<54	<54
EVE Acid	<2	<24	<24
Hydro-EVE Acid	<2	<28	<28
R-EVE	<2	<70	<70
PES	<2	<46	<46
PFECA B	<2	<60	<60
PFECA-G	<2	<41	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<2	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	--
6:2 Fluorotelomer sulfonate	<20	--	--
ADONA	<2.1	--	--
F-53B Major	<2	--	--
F-53B Minor	<2	--	--
NaDONA	<2.1	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	--
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	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	--	--
N-ethylperfluoro-1-octanesulfonamide	<2	--	--
N-methyl perfluoro-1-octanesulfonamide	<2	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-02-102419**	**GW4Q19-EBLK-01-102519**	**GW4Q19-EQBLK-01-102519**
Sample Date	**10/24/2019**	**10/25/2019**	**10/25/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**320-55761-1**	**320-55754-1**	**320-55754-1**
Lab Sample ID	**320-55761-6**	**320-55754-5**	**320-55754-3**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<2	<2	**2.9**
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
ADONA	--	--	--
F-53B Major	--	--	--
F-53B Minor	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-02-102519**	**GW4Q19-EQBLK-01-102919**	**GW4Q19-EQBLK-02-102919**
Sample Date	**10/25/2019**	**10/29/2019**	**10/29/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**320-55754-1**	**320-55854-1**	**320-55854-1**
Lab Sample ID	**320-55754-4**	**320-55854-7**	**320-55854-8**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**7.9**	<2	<2
PFMOAA	**6.1**	<5	<5
PFO2HxA	**2.5**	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
Byproduct 4	**8.1**	<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	**3.6**	<2	<2
PES	<2	<2	<2
PFECA B	<2	<2	<2
PFECA-G	<2	<2	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
ADONA	--	--	--
F-53B Major	--	--	--
F-53B Minor	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EB**	**EB**	**EB**
Field Sample ID	**GW4Q19-EQBLK-01-103119**	**GW4Q19-EQBLK-02-103119**	**GW4Q19-EQBLK-01-110719**
Sample Date	**10/31/2019**	**10/31/2019**	**11/7/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**320-55909-1**	**320-55909-1**	**320-56173-1**
Lab Sample ID	**320-55909-5**	**320-55909-6**	**320-56173-1**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**2.4**	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
ADONA	--	--	--
F-53B Major	--	--	--
F-53B Minor	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**BLADEN EQBLK-1**	**BLADEN EQBLK-2**	**GW4Q19-EQBLK-01-102219**
Sample Date	**8/28/2019**	**8/28/2019**	**10/22/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**280-127778-1**	**280-127778-1**	**320-55686-1**
Lab Sample ID	**280-127778-8**	**280-127778-9**	**320-55686-8**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<3.8	<3.8	<2
PFMOAA	<2.1	<2.1	<5
PFO2HxA	<0.8	<0.8	<2
PFO3OA	<0.6	<0.6	<2
PFO4DA	<0.8	<0.8	<2
PFO5DA	<0.3	<0.3	<2
PMPA	<5.7	<5.7	<10
PEPA	<0.5	<0.5	<20
PFESA-BP1	<0.3	<0.3	<2
PFESA-BP2	<0.3	<0.3	<2
Byproduct 4	<1.6	<1.6	<2
Byproduct 5	<0.6	<0.6	<2
Byproduct 6	<0.2	<0.2	<2
NVHOS	<0.5	<0.5	<2
EVE Acid	<0.2	<0.2	<2
Hydro-EVE Acid	<0.3	<0.3	<2
R-EVE	<0.7	<0.7	<2
PES	<0.5	<0.5	<2
PFECA B	<0.6	<0.6	<2
PFECA-G	<0.4	<0.4	<2
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<1.9	<1.9	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<19	<19	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<19	<19	--
6:2 Fluorotelomer sulfonate	<19	<19	--
ADONA	<2	<2	--
F-53B Major	<1.9	<1.9	--
F-53B Minor	<1.9	<1.9	--
NaDONA	<2	<2	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<19	<19	--
N-methyl perfluorooctane sulfonamidoacetic acid	<19	<19	--
Perfluorobutane Sulfonic Acid	<1.9	<1.9	--
Perfluorobutanoic Acid	<1.9	<1.9	--
Perfluorodecane Sulfonic Acid	<1.9	<1.9	--
Perfluorodecanoic Acid	<1.9	<1.9	--
Perfluorododecane sulfonic acid (PFDoS)	<1.9	<1.9	--
Perfluorododecanoic Acid	<1.9	<1.9	--
Perfluoroheptane sulfonic acid (PFHpS)	<1.9	<1.9	--
Perfluoroheptanoic Acid	<1.9	<1.9	--
Perfluorohexadecanoic acid (PFHxDA)	<1.9	<1.9	--
Perfluorohexane Sulfonic Acid	**0.34 J**	**0.26 J**	--
Perfluorohexanoic Acid	<1.9	<1.9	--
Perfluorononanesulfonic acid	<1.9	<1.9	--
Perfluorononanoic Acid	<1.9	<1.9	--
Perfluorooctadecanoic acid	<1.9	<1.9	--
Perfluorooctane Sulfonamide	<1.9	<1.9	--
Perfluoropentane sulfonic acid (PFPeS)	<1.9	<1.9	--
Perfluoropentanoic Acid	<1.9	<1.9	--
Perfluorotetradecanoic Acid	**0.3 J**	<1.9	--
Perfluorotridecanoic Acid	<1.9	<1.9	--
Perfluoroundecanoic Acid	<1.9	<1.9	--
PFOA	<1.9	<1.9	--
PFOS	<1.9	<1.9	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<1.9	<1.9	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<3.8	<3.8	--
N-ethylperfluoro-1-octanesulfonamide	<1.9	<1.9	--
N-methyl perfluoro-1-octanesulfonamide	<1.9	<1.9	--

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**EQBLK**	**EQBLK**	**EQBLK**
Field Sample ID	**GW4Q19-EQBLK-02-102219**	**GW4Q19-EQBLK-01-102819**	**GW4Q19-EQBLK-02-102819**
Sample Date	**10/22/2019**	**10/28/2019**	**10/28/2019**
QA/QC	**Equipment Blank**	**Equipment Blank**	**Equipment Blank**
Sample Delivery Group	**320-55686-1**	**320-55757-1**	**320-55757-1**
Lab Sample ID	**320-55686-7**	**320-55757-1**	**320-55757-2**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**3.6**	**2.1**	**3.7**
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
ADONA	--	--	--
F-53B Major	--	--	--
F-53B Minor	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--

Notes:
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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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**FIELDBLK-20190913**	**GW4Q19-FBLK-01-102219**	**GW4Q19-FBLK-01-102319**
Sample Date	**9/13/2019**	**10/22/2019**	**10/23/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**
Sample Delivery Group	**200-50567-2**	**320-55686-1**	**320-55683-1**
Lab Sample ID	**200-50567-3**	**320-55686-9**	**320-55683-10**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	**9.2**	**25**	<86
PFMOAA	<5	<5	<210
PFO2HxA	<2	<2	<81
PFO3OA	<2	<2	<58
PFO4DA	<2	<2	<79
PFO5DA	<2	<2	<34
PMPA	<10	<10	<570
PEPA	<20	<20	<47
PFESA-BP1	<2	<2	<27
PFESA-BP2	<2	<2	<30
Byproduct 4	<2	<2	<160
Byproduct 5	<2	<2	<58
Byproduct 6	<2	<2	<15
NVHOS	<2	<2	<54
EVE Acid	<2	<2	<24
Hydro-EVE Acid	<2	<2	<28
R-EVE	<2	<2	<70
PES	<2	<2	<46
PFECA B	<2	<2	<60
PFECA-G	<2	<2	<41
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	<2	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	--
6:2 Fluorotelomer sulfonate	<20	--	--
ADONA	<2.1	--	--
F-53B Major	<2	--	--
F-53B Minor	<2	--	--
NaDONA	<2.1	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	--
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	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4	--	--
N-ethylperfluoro-1-octanesulfonamide	<2	--	--
N-methyl perfluoro-1-octanesulfonamide	<2	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--	--
Location ID	**FBLK**	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-102419**	**GW4Q19-FBLK-01-102819**	**GW4Q19-FBLK-01-102919**
Sample Date	**10/24/2019**	**10/28/2019**	**10/29/2019**
QA/QC	**Field Blank**	**Field Blank**	**Field Blank**
Sample Delivery Group	**320-55761-1**	**320-55757-1**	**320-55854-1**
Lab Sample ID	**320-55761-7**	**320-55757-5**	**320-55854-6**
Table 3+ Lab SOP (ng/L)			
HFPO-DA (EPA Method 537 Mod)	<2	<2	<2
PFMOAA	<5	<5	<5
PFO2HxA	<2	<2	<2
PFO3OA	<2	<2	<2
PFO4DA	<2	<2	<2
PFO5DA	<2	<2	<2 UJ
PMPA	<10	<10	<10
PEPA	<20	<20	<20
PFESA-BP1	<2	<2	<2
PFESA-BP2	<2	<2	<2
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
Other PFAS (ng/L)			
10:2 Fluorotelomer sulfonate	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--
ADONA	--	--	--
F-53B Major	--	--	--
F-53B Minor	--	--	--
NaDONA	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--
Perfluorobutanoic Acid	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--
Perfluorodecanoic Acid	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--
Perfluorododecanoic Acid	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--
Perfluoroheptanoic Acid	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--
Perfluorohexanoic Acid	--	--	--
Perfluorononanesulfonic acid	--	--	--
Perfluorononanoic Acid	--	--	--
Perfluorooctadecanoic acid	--	--	--
Perfluorooctane Sulfonamide	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--
Perfluoropentanoic Acid	--	--	--
Perfluorotetradecanoic Acid	--	--	--
Perfluorotridecanoic Acid	--	--	--
Perfluoroundecanoic Acid	--	--	--
PFOA	--	--	--
PFOS	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-4
OFFSITE GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Aquifer	--	--
Location ID	**FBLK**	**FBLK**
Field Sample ID	**GW4Q19-FBLK-01-103119**	**GW4Q19-FBLK-01-110719**
Sample Date	**10/31/2019**	**11/7/2019**
QA/QC	**Field Blank**	**Field Blank**
Sample Delivery Group	**320-55909-1**	**320-56173-1**
Lab Sample ID	**320-55909-7**	**320-56173-2**
Table 3+ Lab SOP (ng/L)		
HFPO-DA (EPA Method 537 Mod)	<2	<2
PFMOAA	<5	<5
PFO2HxA	<2	<2
PFO3OA	<2	<2
PFO4DA	<2	<2
PFO5DA	<2	<2
PMPA	<10	<10
PEPA	<20	<20
PFESA-BP1	<2	<2
PFESA-BP2	<2	<2
Byproduct 4	<2	<2
Byproduct 5	<2	<2
Byproduct 6	<2	<2
NVHOS	<2	<2
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	<2	<2
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Other PFAS (ng/L)		
10:2 Fluorotelomer sulfonate	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--
6:2 Fluorotelomer sulfonate	--	--
ADONA	--	--
F-53B Major	--	--
F-53B Minor	--	--
NaDONA	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--
Perfluorobutane Sulfonic Acid	--	--
Perfluorobutanoic Acid	--	--
Perfluorodecane Sulfonic Acid	--	--
Perfluorodecanoic Acid	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--
Perfluorododecanoic Acid	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--
Perfluoroheptanoic Acid	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--
Perfluorohexane Sulfonic Acid	--	--
Perfluorohexanoic Acid	--	--
Perfluorononanesulfonic acid	--	--
Perfluorononanoic Acid	--	--
Perfluorooctadecanoic acid	--	--
Perfluorooctane Sulfonamide	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--
Perfluoropentanoic Acid	--	--
Perfluorotetradecanoic Acid	--	--
Perfluorotridecanoic Acid	--	--
Perfluoroundecanoic Acid	--	--
PFOA	--	--
PFOS	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--

Notes:
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
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
< - Analyte not detected above associated reporting limit.

TABLE A 9-5
SELECT MONITORING WELL LOCATIONS SHOWING PROPSOED PFAS SIGNATURES
Chemours Fayetteville Works, North Carolina

Proposed PFAS Signature	Area	Aquifer	Location ID	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFO5DA	PMPA	PEPA	PFESA-BP1	PFESA-BP2	Byproduct 4	Byproduct 5	Byproduct 6	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	Total Table 3+ (ng/L)
Aerial - Predominant PMPA	Offsite	Black Creek Aquifer	BLADEN-2D	10%	0%	6%	1%	0%	0%	69%	11%	0%	4%	0%	0%	0%	0%	0%	0%	0%	110
Aerial - Predominant PMPA	Offsite	Surficial Aquifer	BLADEN-2S	4%	9%	15%	1%	1%	0%	53%	5%	0%	11%	0%	0%	0%	1%	0%	0%	0%	130
Aerial - Predominant PMPA	Onsite	Black Creek Aquifer	PW-12	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15
Aerial - Mixture of PFAS	Offsite	Black Creek Aquifer	BLADEN-1D	24%	4%	11%	1%	0%	0%	43%	14%	0%	0%	2%	0%	0%	0%	0%	0%	1%	760
Aerial - Mixture of PFAS	Offsite	Surficial Aquifer	BLADEN-3S	10%	13%	27%	3%	3%	1%	33%	5%	0%	3%	2%	0%	0%	0%	0%	0%	0%	120
Aerial - Mixture of PFAS	Offsite	Surficial Aquifer	CUMBERLAND-3S	5%	14%	30%	5%	4%	4%	21%	0%	0%	2%	10%	0%	0%	0%	0%	0%	5%	210
Aerial - Mixture of PFAS	Offsite	Surficial Aquifer	CUMBERLAND-4S	20%	7%	20%	3%	1%	0%	25%	7%	0%	1%	13%	0%	0%	0%	0%	0%	3%	560
Aerial - Mixture of PFAS	Onsite	Perched Zone	FTA-02	24%	12%	10%	2%	2%	3%	7%	3%	1%	4%	2%	1%	0%	0%	27%	1%	1%	90,000
Aerial - Mixture of PFAS	Onsite	Surficial Aquifer	MW-18D	53%	4%	7%	0%	0%	0%	28%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1,500
Aerial - Mixture of PFAS	Onsite	Perched Zone	NAF-04	6%	6%	10%	3%	1%	1%	2%	1%	25%	3%	2%	28%	0%	1%	8%	4%	1%	4,300,000
Aerial - Mixture of PFAS	Onsite	Perched Zone	NAF-12	2%	4%	7%	3%	2%	1%	6%	1%	12%	4%	4%	20%	0%	10%	13%	7%	2%	5,400,000
Aerial - Mixture of PFAS	Onsite	Surficial Aquifer	PW-03	20%	1%	5%	1%	0%	0%	33%	19%	0%	0%	3%	12%	0%	2%	0%	1%	3%	400,000
Combined Process Water - Predominant PFMOAA	Onsite	Black Creek Aquifer	LTW-05	7%	65%	18%	6%	1%	0%	0%	0%	0%	0%	0%	1%	0%	1%	0%	0%	1%	370,000
Combined Process Water - Predominant PFMOAA	Onsite	Surficial Aquifer	MW-14D	4%	71%	14%	3%	1%	0%	3%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	250,000
Combined Process Water - Predominant PFMOAA	Onsite	Perched Zone	MW-24	2%	77%	14%	3%	1%	0%	1%	0%	0%	0%	0%	1%	0%	1%	0%	0%	0%	940,000
Combined Process Water - Predominant PFMOAA	Onsite	Perched Zone	MW-27	3%	68%	18%	5%	1%	0%	2%	1%	0%	0%	0%	0%	0%	1%	0%	0%	0%	350,000
Combined Process Water - Predominant PFMOAA	Onsite	Perched Zone	NAF-02	3%	62%	17%	5%	2%	1%	2%	1%	0%	0%	0%	5%	0%	1%	0%	0%	0%	4,700,000
Combined Process Water - Predominant PFMOAA	Onsite	Surficial Aquifer	PIW-9S	3%	69%	16%	4%	1%	0%	3%	1%	0%	0%	0%	0%	0%	1%	0%	0%	0%	220,000
Combined Process Water - Predominant PFMOAA	Onsite	Black Creek Aquifer	PW-15R	2%	67%	13%	3%	0%	0%	7%	2%	1%	0%	0%	4%	0%	1%	0%	0%	0%	490,000
Combined Process Water - Predominant PFMOAA	Onsite	Surficial Aquifer	SMW-08B	2%	74%	13%	3%	1%	0%	2%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	350,000
Combined Process Water - Mixture of PFAS	Onsite	Surficial Aquifer	MW-15DRR	4%	38%	8%	1%	0%	0%	4%	1%	11%	1%	1%	26%	0%	0%	1%	0%	0%	81,000
Combined Process Water - Mixture of PFAS	Onsite	Black Creek Aquifer	PIW-10DR	17%	40%	17%	5%	1%	0%	8%	3%	0%	0%	1%	6%	0%	0%	0%	1%	1%	110,000
Combined Process Water - Mixture of PFAS	Onsite	Perched Zone	PZ-11	19%	27%	18%	3%	2%	3%	13%	4%	2%	1%	1%	5%	0%	1%	0%	0%	0%	26,000

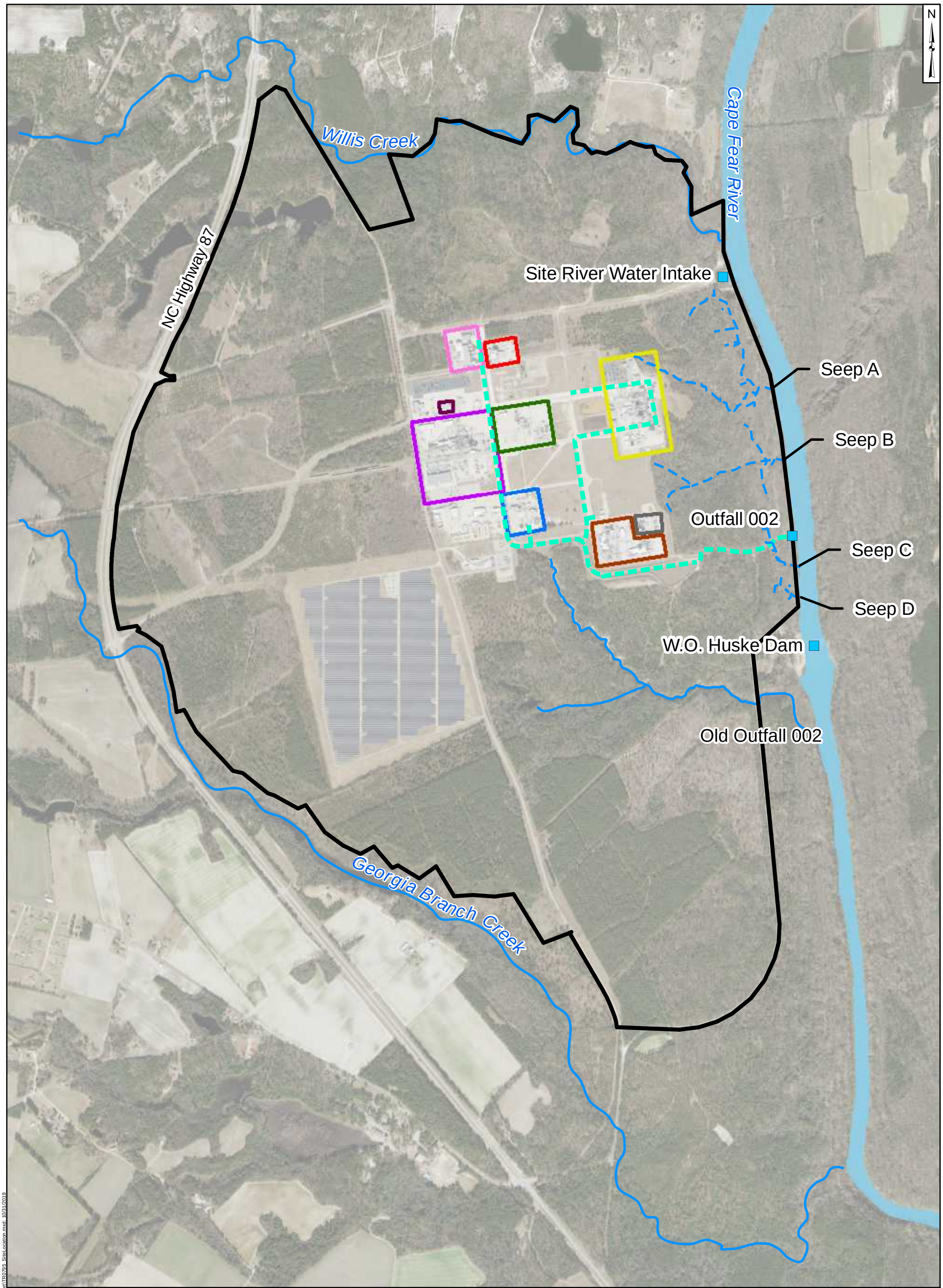
Notes:
ng/L - nanograms per liter
Table 3+ compounds reported as percentage of Total Table 3+ concentrations.
PES, PFECA B, and PFECA-G had no detections and are therefore omitted from this table.

TABLE A 10-1
COMPARISON OF PROPOSED PFAS SIGNATURES TO SELECTED LOCATIONS
Chemours Fayetteville Works, North Carolina

Location ID	Sample Date	Proposed PFAS Signature	HFPO-DA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFO5DA	PMPA	PEPA	PFESA-BP1	PFESA-BP2	Byproduct 4	Byproduct 5	Byproduct 6	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	Total Table 3+ (ng/L)
OLDOF-1	2/1/2019	Combined Process Water - Predominant PFMOAA	4%	72%	13%	4%	1%	1%	4%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	130,000
OLDOF-2	2/1/2019	Combined Process Water - Predominant PFMOAA	4%	66%	13%	4%	1%	1%	4%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	140,000
OLDOF-2L	2/2/2019	Combined Process Water - Predominant PFMOAA	4%	69%	14%	4%	1%	1%	4%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	150,000
OLDOF-3	2/2/2019	Combined Process Water - Predominant PFMOAA	4%	68%	14%	3%	1%	0%	4%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	160,000
OLDOF-4	2/2/2019	Combined Process Water - Predominant PFMOAA	3%	70%	13%	4%	1%	1%	4%	1%	0%	0%	0%	1%	0%	1%	0%	0%	0%	200,000
OLDOF-5	2/2/2019	Combined Process Water - Predominant PFMOAA	3%	69%	13%	4%	2%	1%	3%	1%	1%	0%	0%	1%	0%	1%	0%	0%	0%	290,000
OLDOF-5K	2/2/2019	Combined Process Water - Predominant PFMOAA	16%	41%	14%	3%	3%	1%	12%	4%	0%	1%	1%	0%	0%	1%	0%	1%	1%	39,000
OLDOF-2J*	2/2/2019	Aerial - Mixture of PFAS	14%	6%	15%	3%	0%	0%	43%	15%	0%	1%	2%	0%	0%	0%	0%	0%	1%	8,700
SEEP-C-1	2/5/2019	Combined Process Water - Predominant PFMOAA	8%	58%	19%	6%	1%	0%	5%	2%	0%	0%	0%	1%	0%	1%	0%	1%	1%	340,000
SEEP-C-1-E2	2/5/2019	Combined Process Water - Predominant PFMOAA	7%	63%	15%	4%	1%	0%	5%	2%	0%	0%	0%	1%	0%	1%	0%	0%	0%	260,000
SEEP-D-1	5/30/2019	Combined Process Water - Predominant PFMOAA	11%	54%	17%	5%	1%	0%	5%	2%	0%	0%	1%	2%	0%	0%	0%	1%	1%	170,000
SEEP-A-1	2/7/2019	Combined Process Water - Mixture of PFAS	4%	37%	18%	6%	4%	2%	11%	4%	2%	1%	1%	10%	0%	0%	0%	1%	1%	230,000
SEEP-A-10	2/7/2019	Combined Process Water - Mixture of PFAS	12%	16%	12%	5%	4%	5%	10%	4%	9%	1%	1%	13%	0%	1%	5%	2%	1%	530,000
SEEP-A-11	2/7/2019	Combined Process Water - Mixture of PFAS	10%	17%	12%	5%	4%	4%	9%	4%	10%	1%	1%	14%	0%	1%	4%	2%	1%	540,000
SEEP-A-12	2/7/2019	Combined Process Water - Mixture of PFAS	17%	13%	25%	4%	4%	3%	18%	7%	0%	1%	2%	0%	0%	0%	0%	0%	1%	120,000
SEEP-A-2	2/7/2019	Combined Process Water - Mixture of PFAS	11%	34%	17%	6%	3%	2%	10%	4%	2%	1%	1%	10%	0%	0%	0%	1%	1%	240,000
SEEP-A-3	2/7/2019	Combined Process Water - Mixture of PFAS	6%	36%	17%	6%	4%	3%	10%	4%	2%	1%	1%	10%	0%	0%	0%	1%	1%	220,000
SEEP-A-4	2/7/2019	Combined Process Water - Mixture of PFAS	11%	31%	18%	5%	3%	3%	18%	8%	0%	1%	1%	4%	0%	0%	0%	1%	0%	160,000
SEEP-A-5	2/7/2019	Combined Process Water - Mixture of PFAS	10%	17%	16%	5%	4%	3%	23%	11%	1%	1%	1%	6%	0%	0%	0%	1%	1%	180,000
SEEP-A-6	2/7/2019	Combined Process Water - Mixture of PFAS	13%	12%	14%	4%	4%	3%	27%	13%	1%	1%	1%	5%	0%	0%	0%	1%	1%	140,000
SEEP-A-7	2/7/2019	Combined Process Water - Mixture of PFAS	13%	20%	16%	5%	4%	3%	21%	10%	1%	1%	1%	6%	0%	0%	0%	1%	1%	220,000
SEEP-A-8	2/7/2019	Combined Process Water - Mixture of PFAS	9%	12%	14%	5%	5%	4%	27%	14%	1%	1%	1%	4%	0%	0%	0%	1%	1%	140,000
SEEP-A-9	2/7/2019	Combined Process Water - Mixture of PFAS	11%	15%	12%	5%	4%	3%	10%	4%	8%	1%	2%	16%	0%	1%	4%	2%	1%	510,000
SEEP-B-1	2/5/2019	Combined Process Water - Mixture of PFAS	7%	42%	12%	3%	1%	0%	12%	5%	1%	0%	1%	11%	0%	1%	2%	1%	1%	350,000
SEEP-B-2	2/5/2019	Aerial - Mixture of PFAS	12%	3%	5%	1%	1%	0%	20%	10%	5%	1%	4%	25%	0%	2%	8%	2%	3%	310,000
SEEP-B-3	2/6/2019	Aerial - Mixture of PFAS	11%	1%	4%	1%	1%	0%	19%	10%	6%	1%	4%	26%	0%	2%	9%	2%	3%	380,000
SEEP-B-3-A1	2/6/2019	Aerial - Mixture of PFAS	13%	1%	4%	1%	1%	0%	17%	9%	7%	1%	3%	26%	0%	2%	10%	2%	3%	460,000
SEEP-B-3-E4	2/6/2019	Aerial - Mixture of PFAS	22%	4%	13%	2%	3%	1%	36%	14%	0%	1%	2%	0%	0%	0%	0%	0%	1%	45,000
SEEP-B-4	2/6/2019	Aerial - Mixture of PFAS	12%	1%	3%	1%	1%	0%	17%	9%	8%	1%	4%	26%	0%	2%	11%	2%	3%	670,000
SEEP-B-4-A3	2/6/2019	Aerial - Mixture of PFAS	7%	1%	4%	1%	1%	1%	17%	8%	9%	1%	4%	22%	0%	1%	15%	2%	4%	430,000
GBC-1	5/29/2019	Aerial - Mixture of PFAS	19%	0%	16%	3%	0%	0%	50%	12%	0%	1%	0%	0%	0%	0%	0%	0%	0%	2,600
GBC-2	5/29/2019	Aerial - Mixture of PFAS	25%	0%	14%	3%	0%	0%	46%	11%	0%	1%	0%	0%	0%	0%	0%	0%	0%	2,600
GBC-3	5/29/2019	Aerial - Mixture of PFAS	23%	0%	15%	2%	0%	0%	47%	10%	0%	1%	0%	0%	0%	0%	0%	0%	0%	3,000
GBC-5	5/29/2019	Aerial - Mixture of PFAS	28%	5%	17%	3%	0%	0%	35%	11%	0%	1%	0%	0%	0%	0%	0%	0%	0%	4,600
GBC-6	5/29/2019	Aerial - Mixture of PFAS	29%	0%	17%	3%	0%	0%	39%	11%	0%	1%	0%	0%	0%	0%	0%	0%	0%	4,900
GBC-7	5/29/2019	Aerial - Mixture of PFAS	29%	0%	19%	3%	0%	1%	38%	10%	0%	1%	0%	0%	0%	0%	0%	0%	0%	4,200
WC-1	5/30/2019	Combined Process Water - Mixture of PFAS	17%	29%	15%	3%	0%	1%	25%	5%	0%	0%	0%	5%	0%	0%	0%	0%	0%	4,800
CFR-MILE-76	6/7/2019	Aerial - Mixture of PFAS	10%	0%	6%	0%	0%	0%	25%	0%	0%	0%	11%	32%	0%	10%	0%	0%	6%	72
CFR-BLADEN	5/22/2019	Combined Process Water - Mixture of PFAS	10%	45%	14%	3%	1%	0%	11%	0%	0%	0%	3%	11%	0%	2%	0%	0%	1%	290
CFR-KINGS	5/23/2019	Combined Process Water - Mixture of PFAS	12%	6%	21%	5%	2%	0%	21%	0%	0%	0%	14%	5%	0%	4%	0%	0%	7%	140

Notes:
ng/L - nanograms per liter
Table 3+ compounds reported as percentage of Total Table 3+ concentrations.
PES, PFECA B, and PFECA-G had no detections and are therefore omitted from this table.
* - Sample was collected from seep water, not Old Outfall water.

FIGURES



Legend

- Site Features
- Site Boundary
- Nearby Tributary
- Observed Seep (Natural Drainage)
- Site Drainage Network

Areas at Site

- Chemours Monomers IXM
- Chemours Polymer Processing Aid Area
- DuPont Polyvinyl Fluoride Leased Area
- Former DuPont PMDF Area
- Kuraray SentryGlas® Leased Area
- Kuraray Trosifol® Leased Area
- Wastewater Treatment Plant
- Power - Filtered and Demineralized Water Production
- Kuraray Laboratory

2,000 1,000 0 2,000 Feet

Site Location Map

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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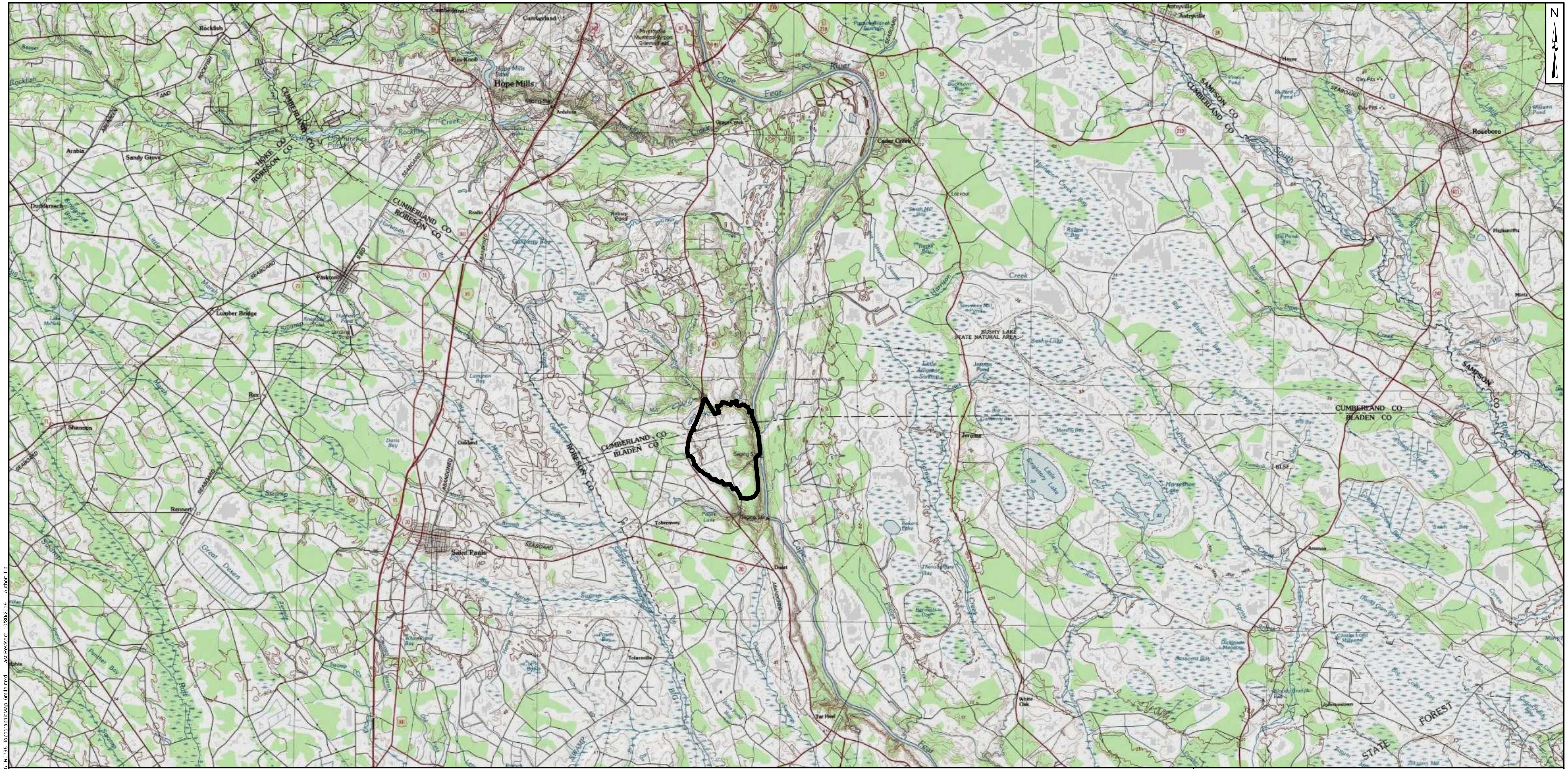
Figure **A2-1**

Notes:
1. The outline of the Cape Fear River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
2. Basemap sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Path: P:\PR\JP\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_SiteLocation.mxd; 10/31/2019



Legend

Site Boundary

Notes:
1. For topographic map symbols, please refer to this document: https://pubs.usgs.gov/gip/TopographicMapSymbols/topomapsymbols.pdf
2. Basemap source: © 2013 National Geographic Society, i-cubed

2 1 0 2 Miles

Regional Topographic Map

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Figure

A2-2

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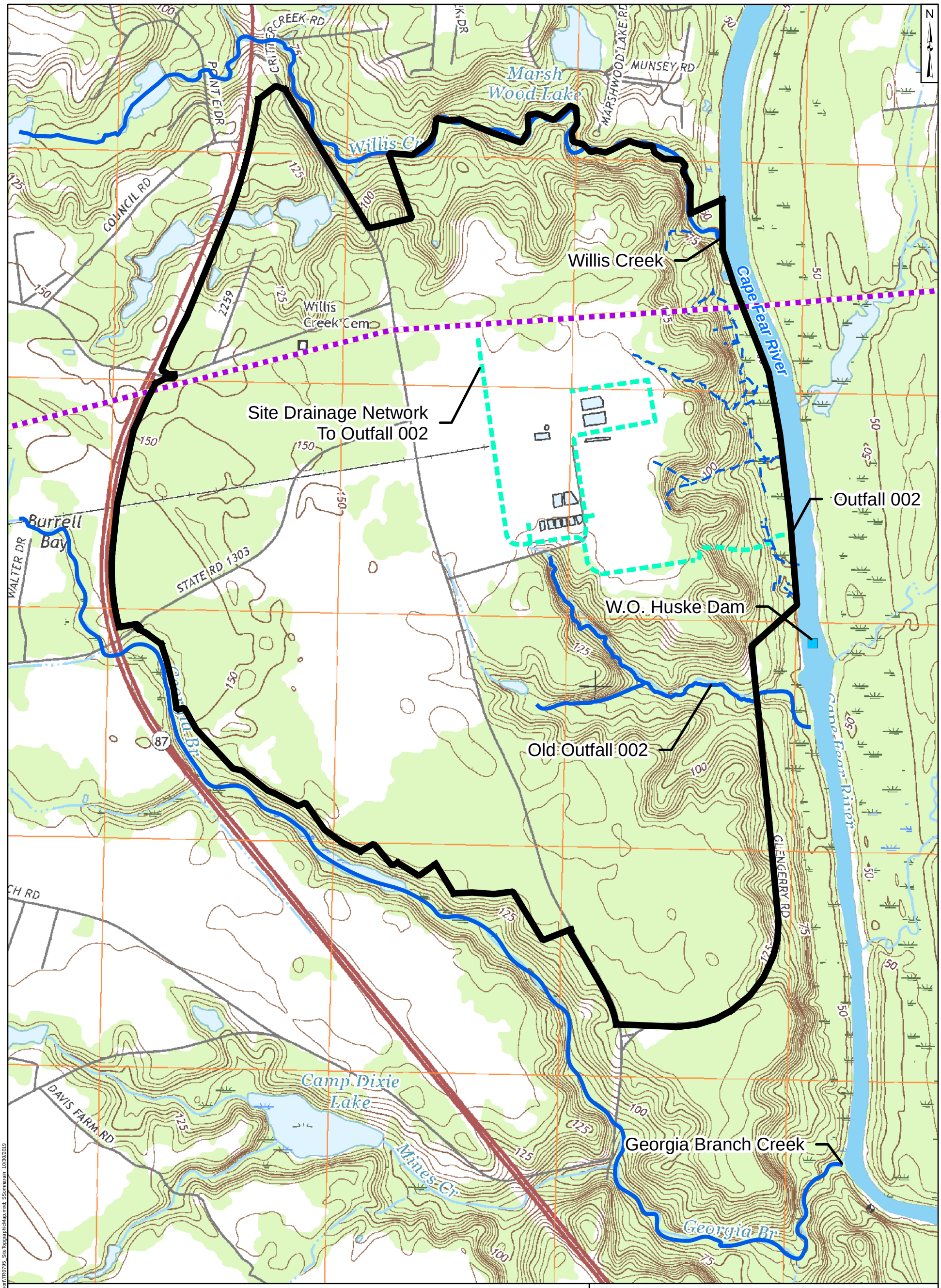
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_TopographicMap_6mile.mxd Last Revised: 10/30/2019 Author: Ttp

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



Legend

- Site Features
- Site Boundary
- County Boundary
- Observed Seep (Natural Drainage)
- Nearby Tributary
- Site Drainage Network

2,000 1,000 0 2,000 Feet

Notes:
Basemap sources: Esri, Garmin, USGS, NPS (World Terrain Reference); Esri, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community (World Hillshade)

Site Topographic Map

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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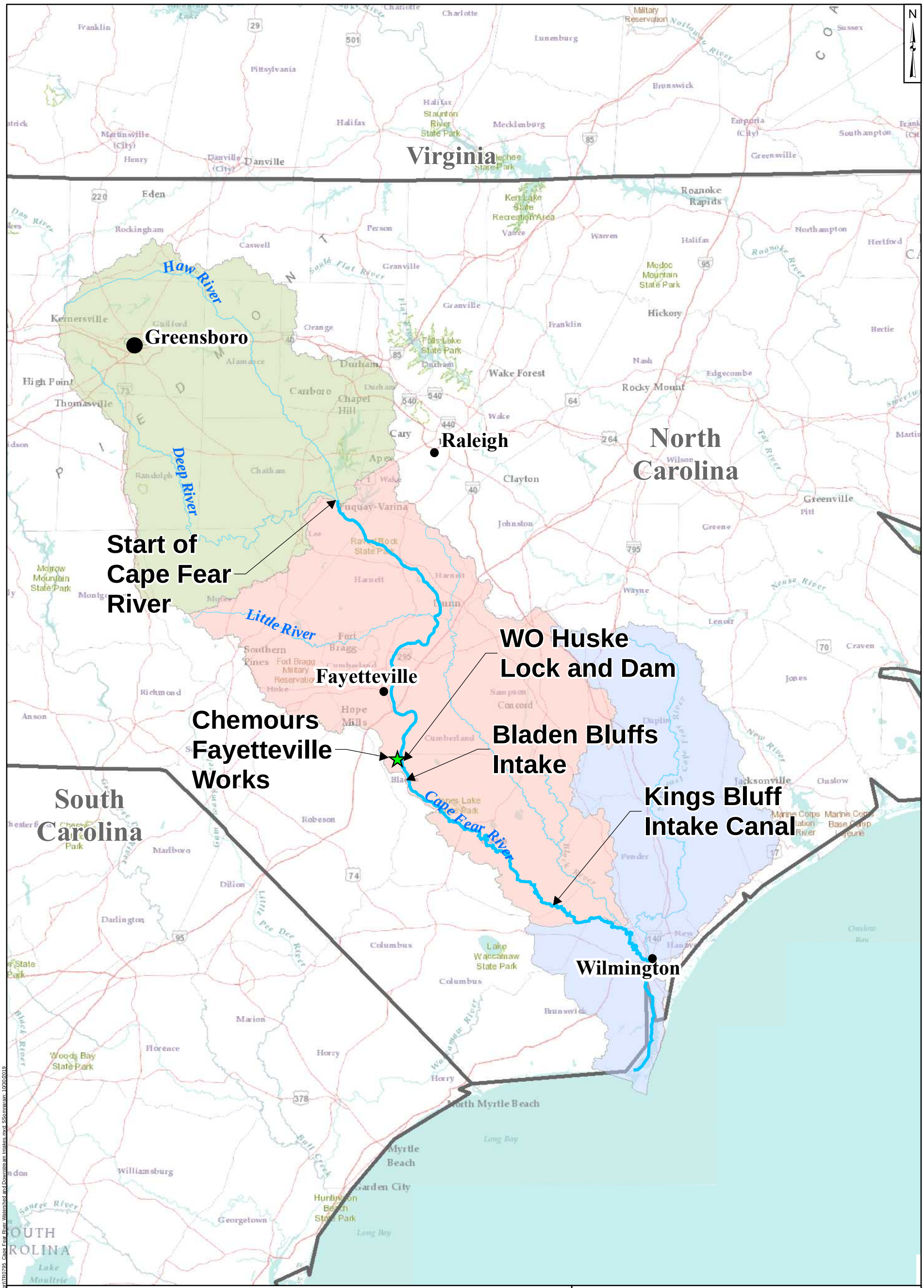
Figure **A2-3**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_SiteTopographicMap.mxd; SSommarain; 10/30/2019



Legend

- Chemours Fayetteville Works
- Upper Basin
- Middle Basin
- Lower Basin

Notes:
Basemap Source: Esri, Garmin, USGS, NPS

20 10 0 20 Miles

Cape Fear River Watershed and Downstream Drinking Water Intakes

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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Figure **A2-4**

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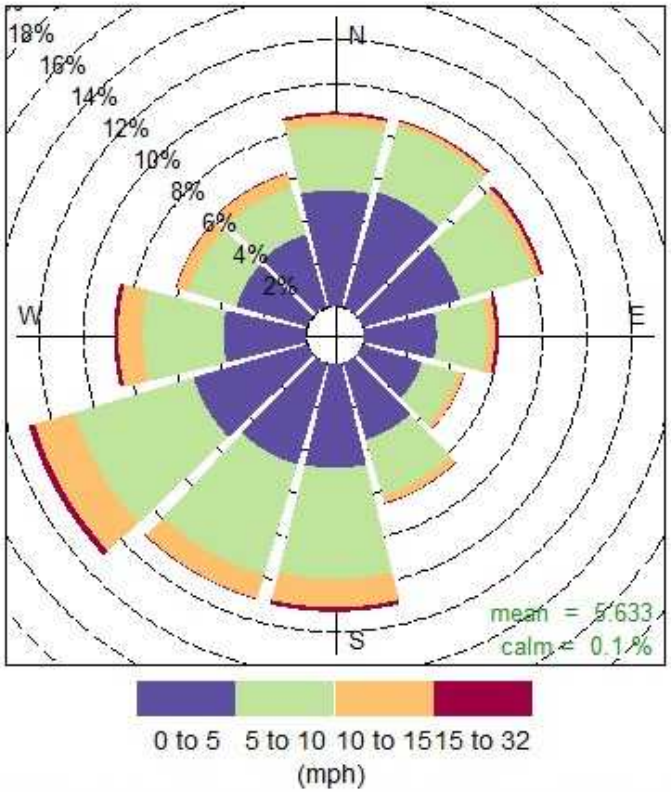
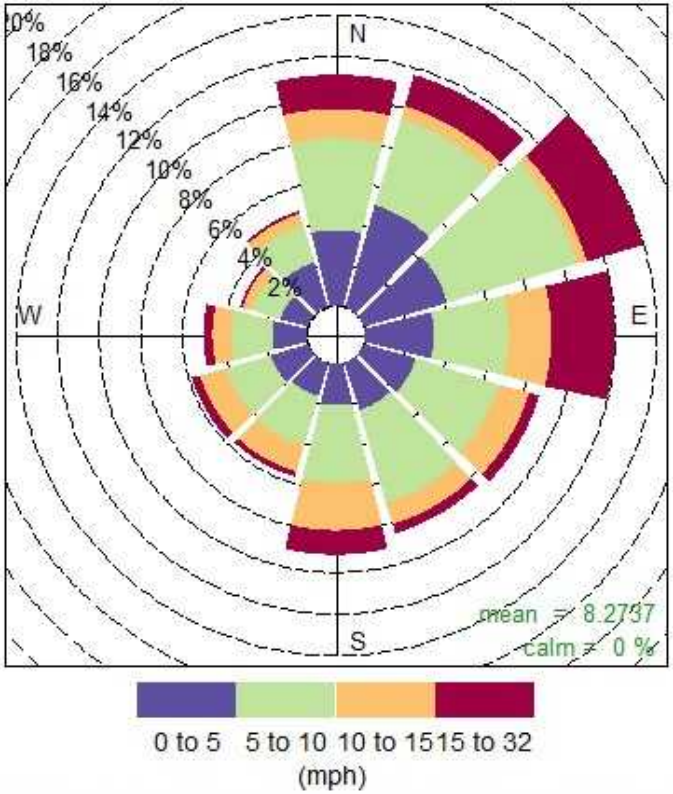
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

Wind Rose for Full Data Set



Frequency of counts by wind direction (%)

Wind Rose for Rain Events



Frequency of counts by wind direction (%)

Notes:

mph - miles per hour

1. Wind measurements collected at the Site for the period from 1 January 2018 to 15 May 2019.
2. Concentric circles indicate the relative proportion of winds from a given direction and speed.
3. Wedges represent the direction the winds are coming from.
4. Color indicates wind speed.
5. 575 total hours (5%) of rain and 10,738 total hours (95%) without rain at the Site for the period from1 January 2018 to 15 May 2019.

Wind Rose Measurements (January 2018- May 2019)

Chemours Fayetteville Works, North Carolina

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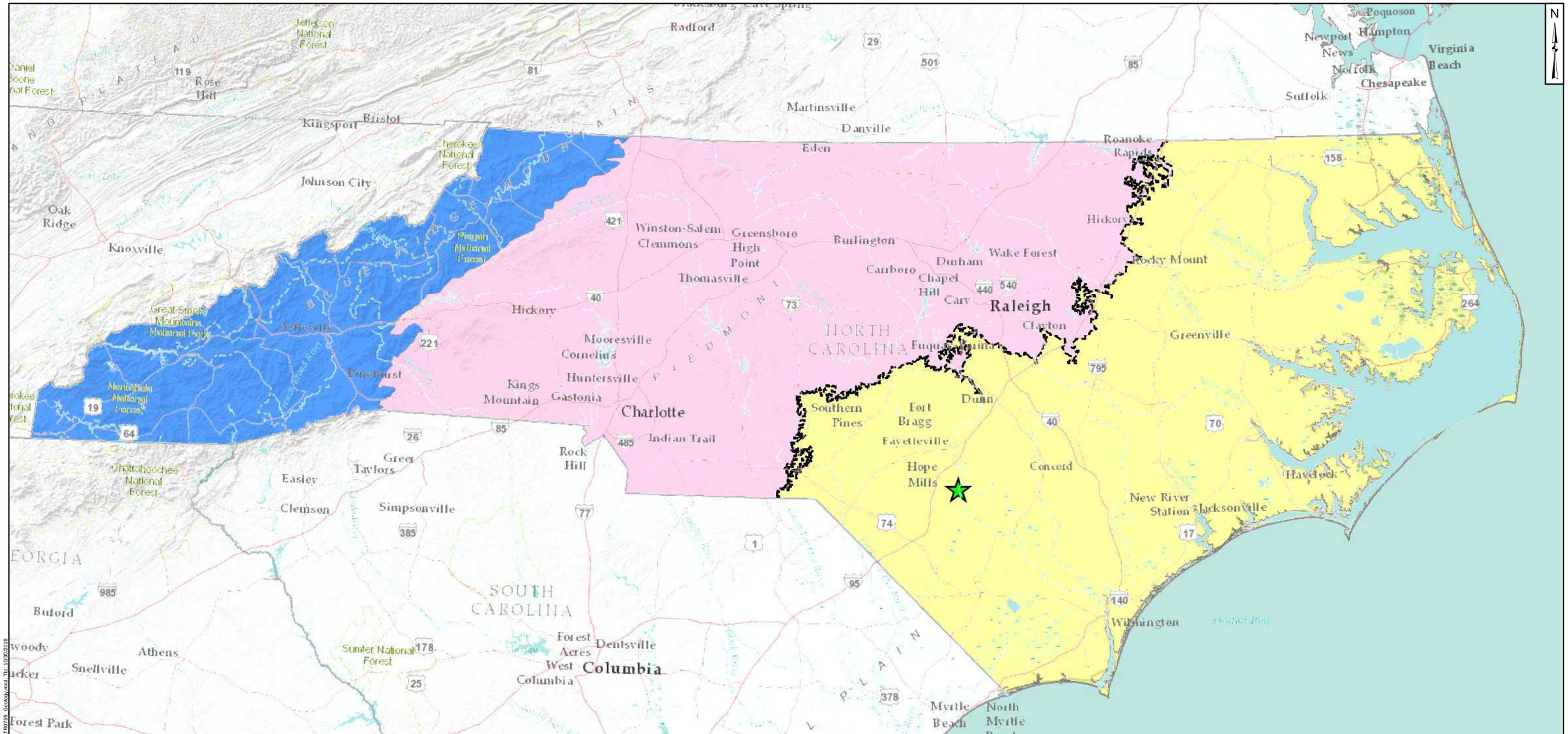
Raleigh

October 2019

Figure **A2-5**



Legend

- Chemours Fayetteville Works
- Blue Ridge
- Piedmont
- Coastal Plain
- Fall Line

Notes:
1. Physiography layer obtained fromNorth Carolina Geological Survey (NCGS).
2. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

40 20 0 40 Miles

Physiographic Provinces of North Carolina

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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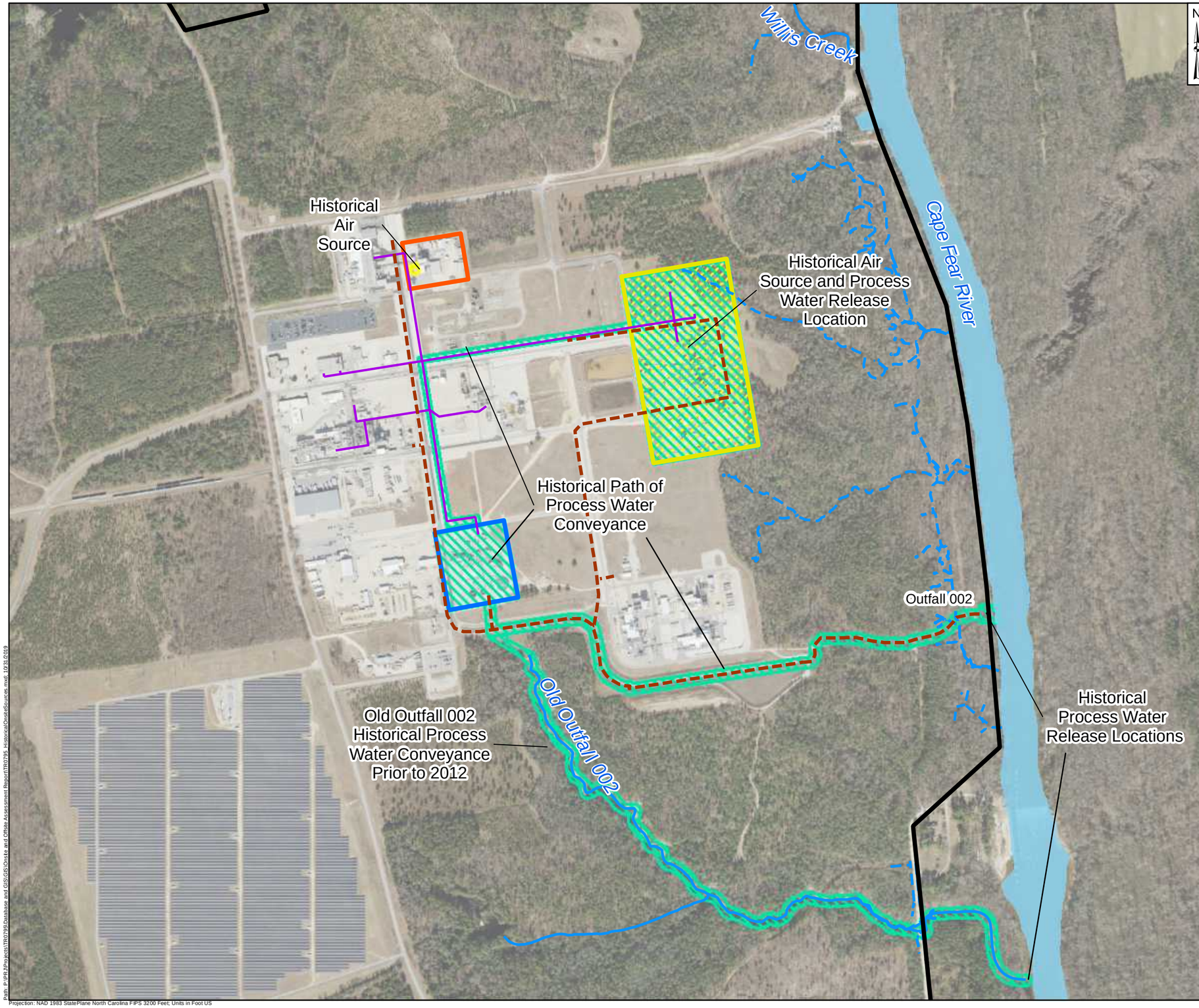
Figure **A3-1**

Path: P:\PR2\Projects\TF0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TF0795_Geology.mxd, Tip: 10/30/2019

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



Legend

- Site Conveyance Network
- Site Boundary
- Nearby Tributary
- Observed Seep (Natural Drainage)
- Terracotta Pipe

Areas at Site

- Chemours Monomers IXM Area
- Chemours Polymer Processing Aid Area
- Wastewater Treatment Plant Area

Historical Onsite Sources

- Air
- Water

Notes:
1. Historical air sources are manufacturing areas where PFAS were emitted to air. The Site by December 31, 2019 will be operating a Thermal Oxidizer that in combination with other control technologies reduces facility wide air emissions of PFAS by 99%.
2. Historical water sources are areas where process water was released to soil and groundwater. Site infrastructure upgrades and offsite disposal of process water has mitigated these sources.

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

Historical Sources of PFAS

Chemours Fayetteville Works, North Carolina

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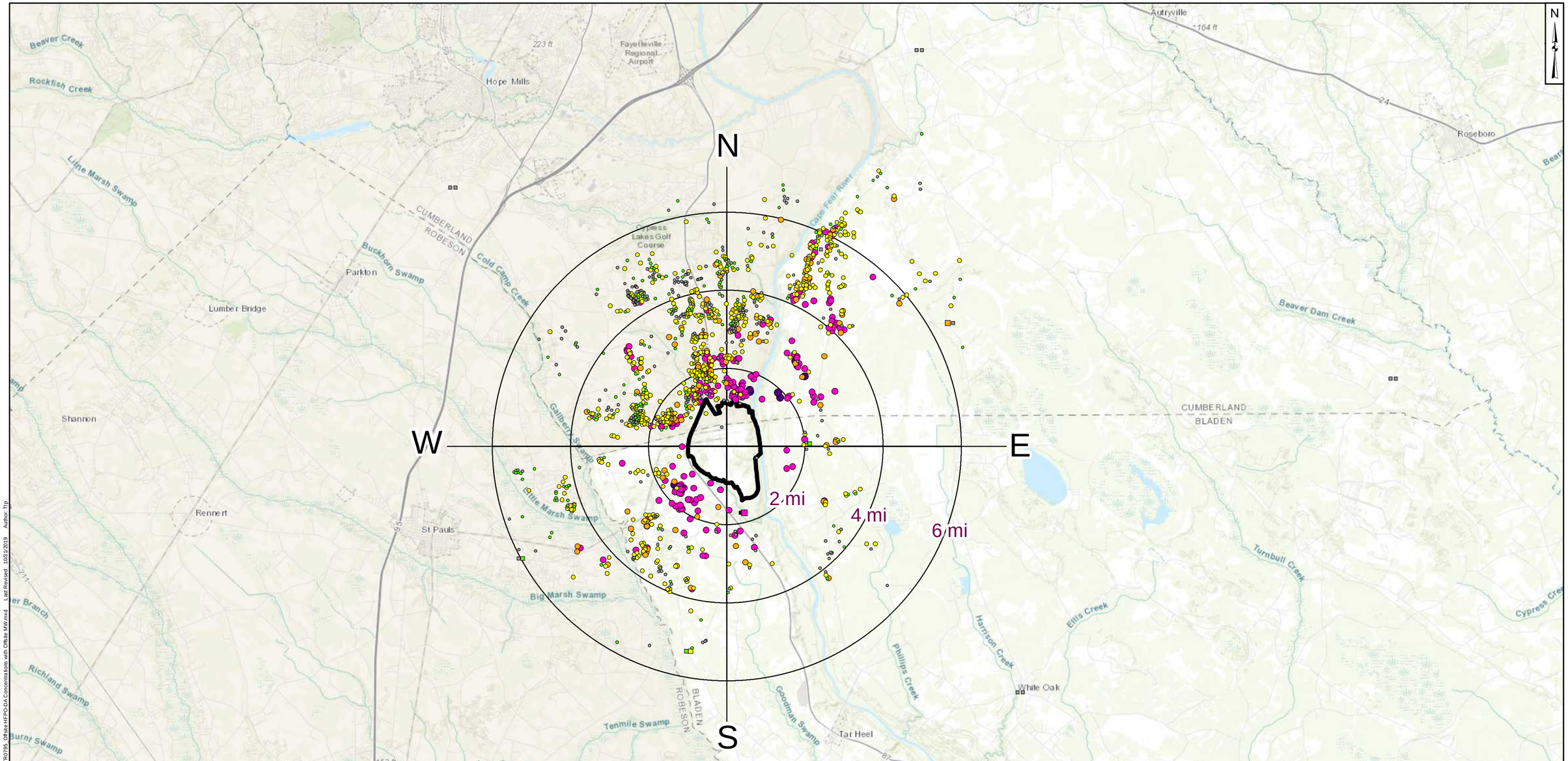
Figure **A4-1**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_HistoricalOnsiteSources.mxd; 10/31/2019

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



Legend

HFPO-DA Concentrations (ng/L)

- Dry
- Non-detect
- < 10
- 10 - 70
- 70 - 140
- 140 - 1,400
- > 1,400

- Offsite Monitoring Well
- Offsite Private Well
- Site Boundary

Notes:
ng/L - nanograms per liter
1. Black lines represent cardinal directions (N, E, S, W)
2. Basemap sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

2 1 0 2 Miles

HFPO-DA Concentrations in Offsite Wells

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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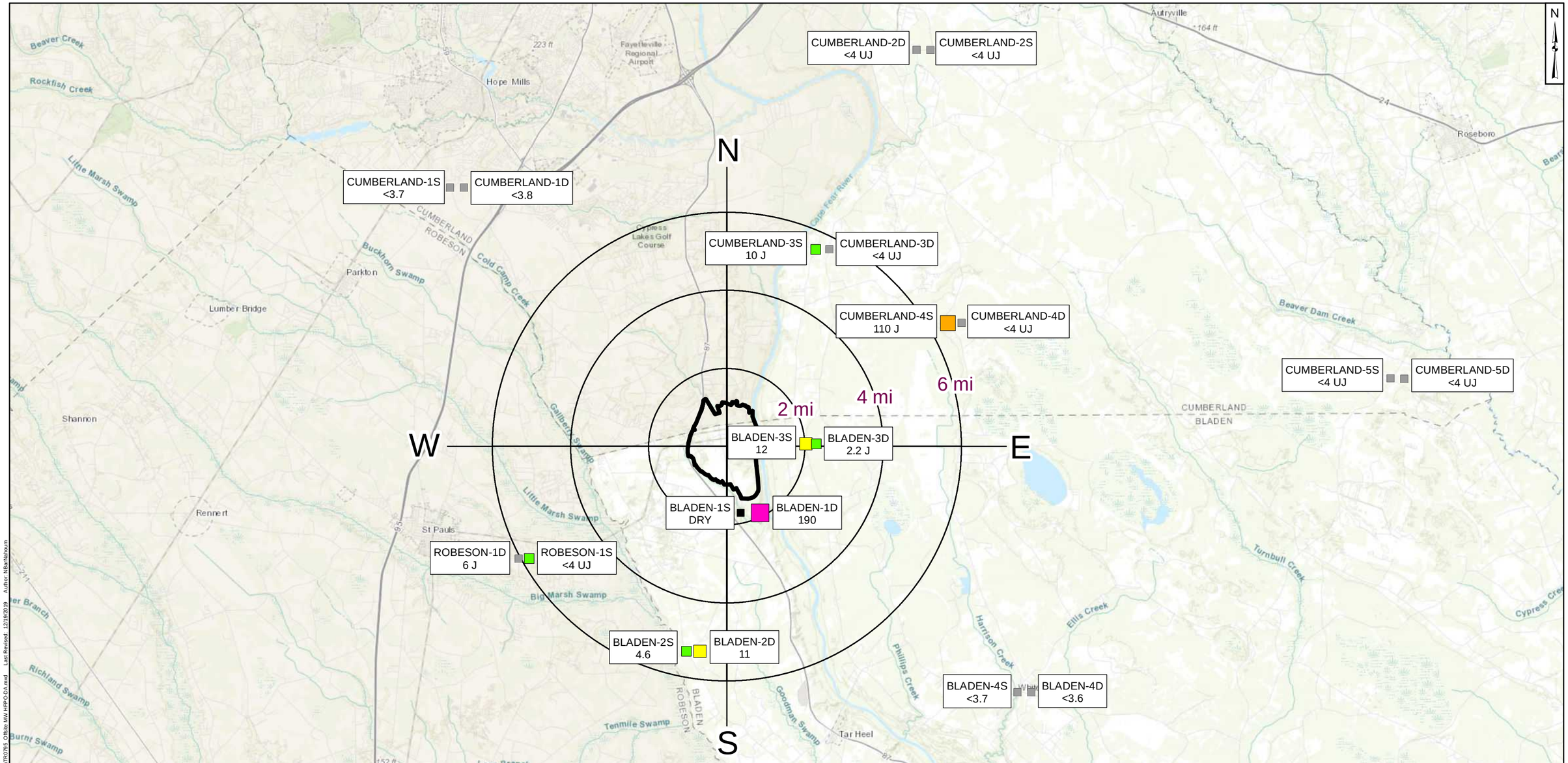
Figure **A4-2A**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Offsite HFPO-DA Concentrations with Offsite MW.mxd Last Revised: 10/31/2019 Author: Ttp

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



Legend

HFPO-DA Concentrations (ng/L)

- Dry
- Non detect
- < 10
- 10 - 70
- 70 - 140
- 140 - 1,400
- Site Boundary

Notes:

ng/L - nanograms per liter

< - Analyte not detected above associated reporting limit.

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

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

1. Black lines represent cardinal directions (N, E, S, W)
2. The locations of Cumberland and Robeson well pairs are approximate.
3. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
4. Basemap sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

2 1 0 2 Miles

HFPO-DA Concentrations in Offsite Groundwater Monitoring Wells

Chemours Fayetteville Works, North Carolina

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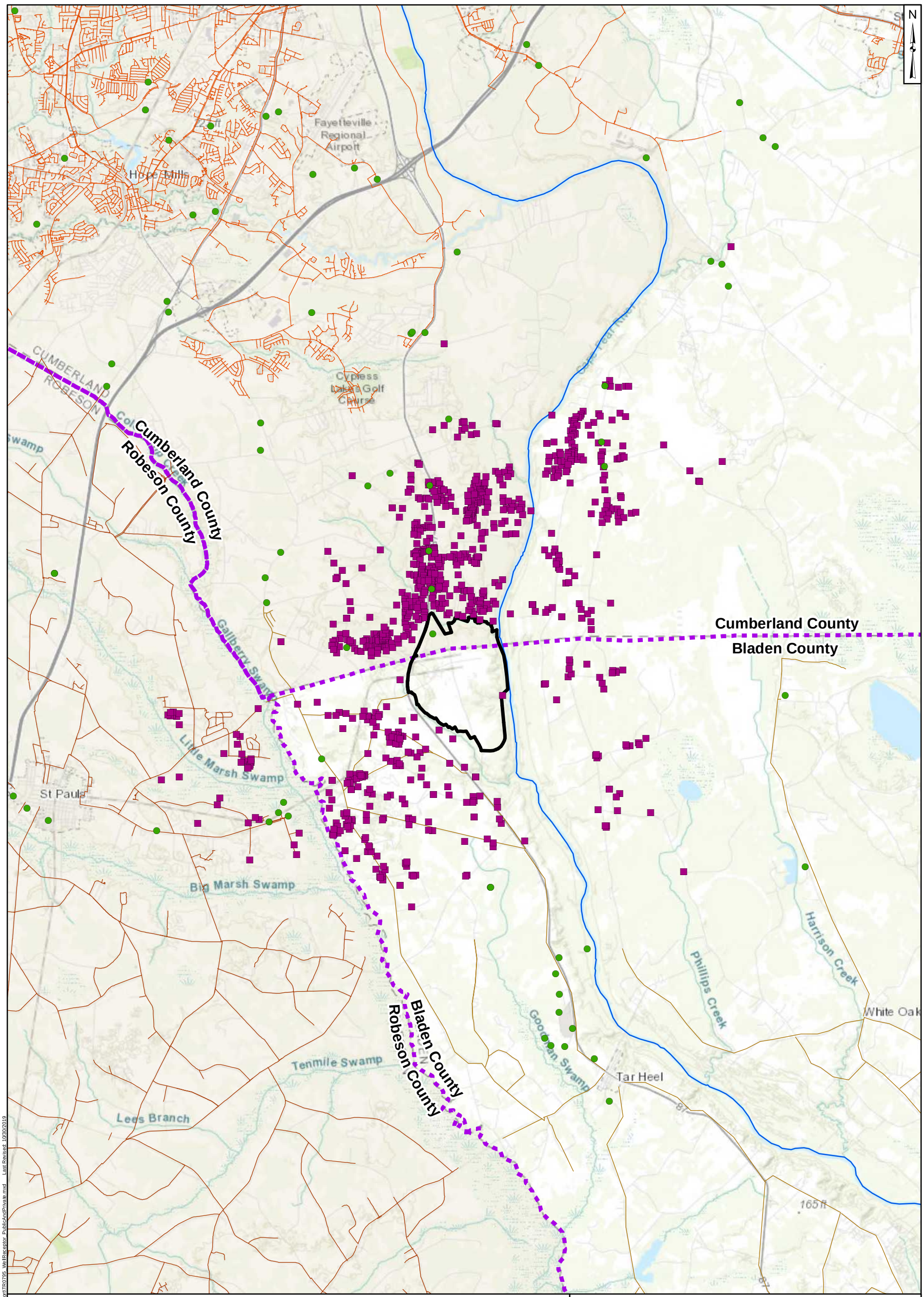
Figure **A4-2B**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Offsite MW HFPO-DA.mxd Last Revised: 12/19/2019 Author: NBarNahoum

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



Legend

- Presently Identified Private Well
- Public Community Well
- Cape Fear River
- Site Boundary
- County Boundary

Existing water lines

- Bladen County (2017 data)
- Robeson County (2018 data)
- Cumberland County (2018 data)

2 1 0 2 Miles

Identified Well Receptor Locations

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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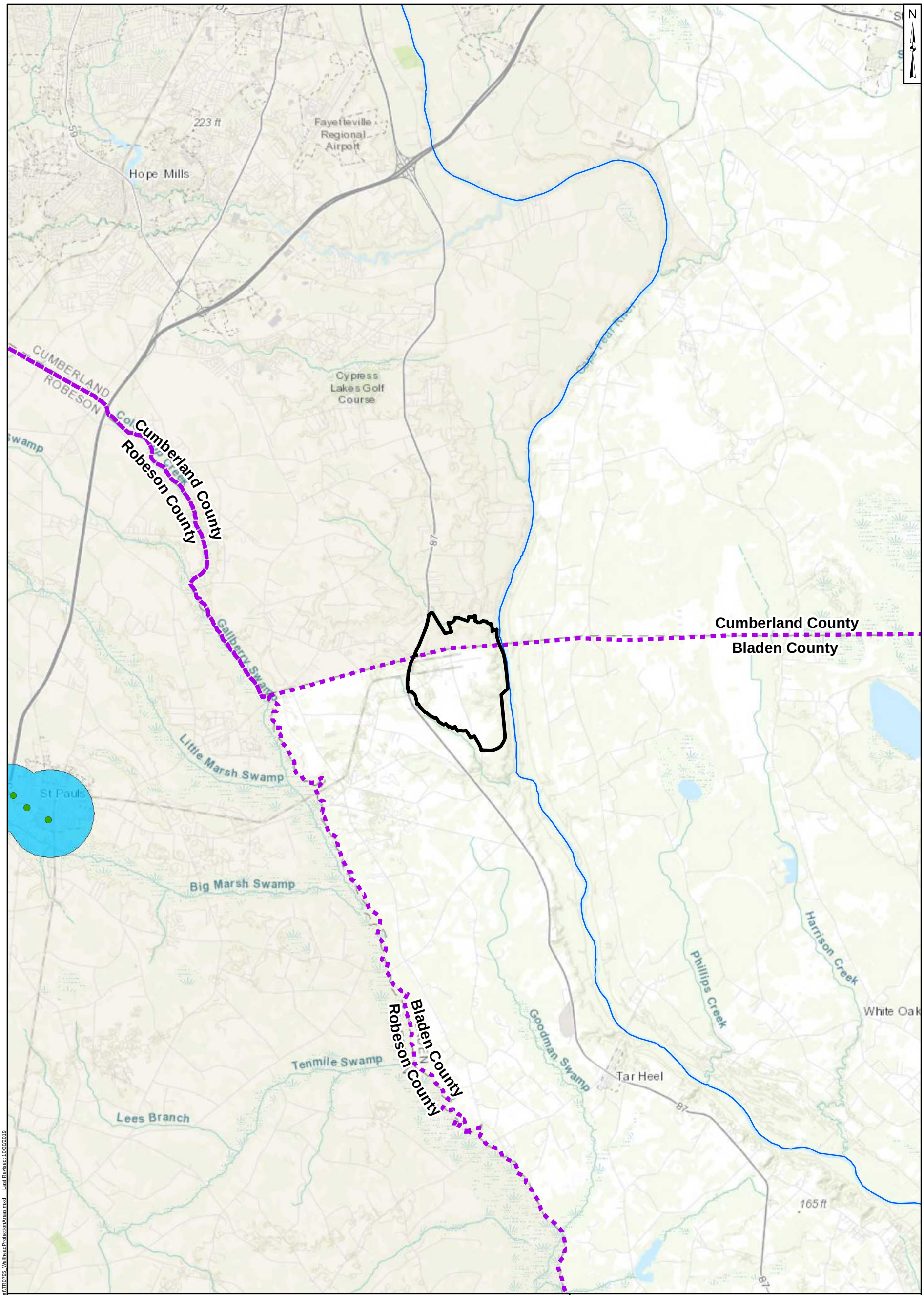
Figure **A5-1**

Raleigh | October 2019

Notes:
1. Delineation of offsite private wells containing PFAS listed in Attachment C of the Consent Order is on-going. Additional private wells are expected to be identified.
2. Locations from public wells were sourced from the North Carolina Corporate Geographic Database. Earlier versions of this dataset may exist. Retrieved from NC OneMap on September 24, 2019.
3. Basemap Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community.

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

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_WellReceptor_PublicAndPrivate.mxd Last Revised: 10/30/2019



Legend

- Public Well within Wellhead Protection Area; PWS ID 0378030
- Wellhead Protection Area
- Cape Fear River
- Site Boundary
- County Boundary

2 1 0 2 Miles

Wellhead Protection Areas

Chemours Fayetteville Works, North Carolina

Notes:
1. The source of the Public Well layer is the North Carolina Corporate Geographic Database. Earlier versions of this dataset may exist. Retrieved from NC OneMap on September 24, 2019.
2. Wellhead Protection Areas last updated on 10/27/2016. The data was downloaded from ArcGIS Online, and was provided by North Carolina Department of Environmental Quality.
3. Basemap Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community.

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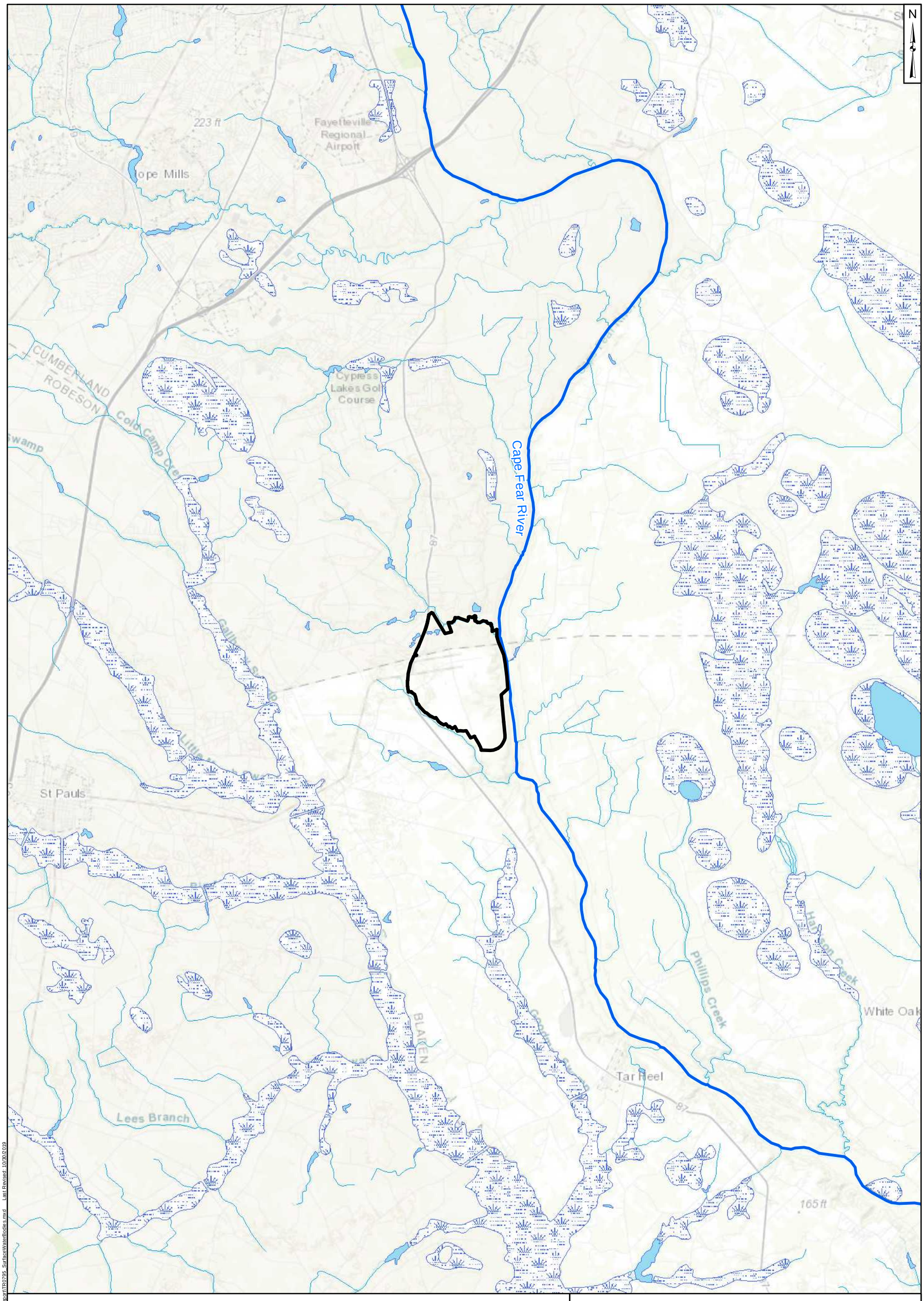
Figure A5-2

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_WellheadProtectionAreas.mxd Last Revised: 10/30/2019

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



Legend

- Lake/Pond
- Wetland
- Stream/River
- Site Boundary

Notes:

1. Surface water layers obtained from National Hydrography Dataset - USGS (www.nhd.usgs.gov)
2. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

2 1 0 2 Miles

Surface Water Bodies in Region Around Site

Chemours Fayetteville Works, North Carolina

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Figure **A5-3**

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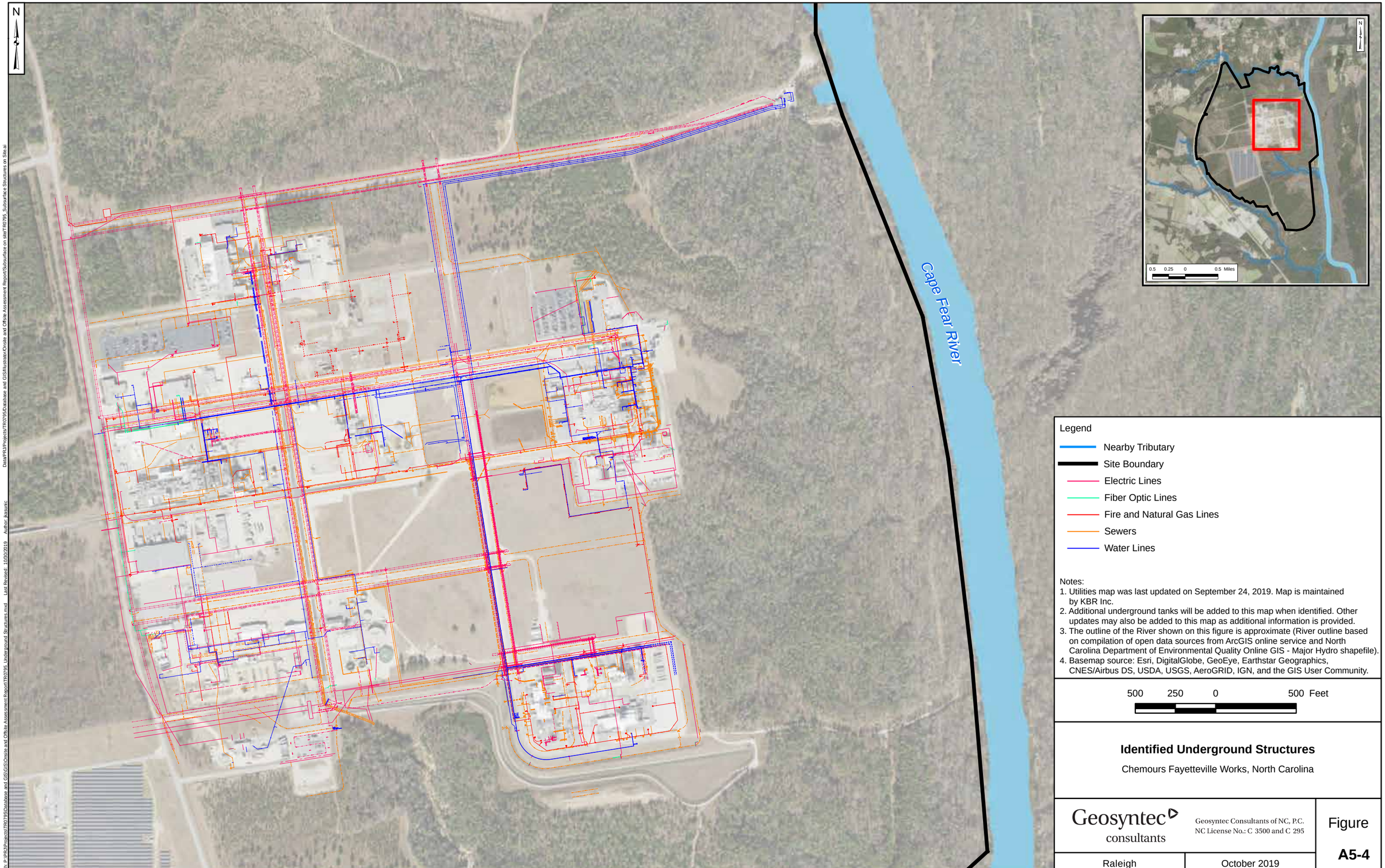
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_SurfaceWaterBodies.mxd Last Revised: 10/30/2019

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



Notes:
1. Utilities map was last updated on September 24, 2019. Map is maintained by KBR Inc.
2. Additional underground tanks will be added to this map when identified. Other updates may also be added to this map as additional information is provided.
3. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
4. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Identified Underground Structures

Chemours Fayetteville Works, North Carolina

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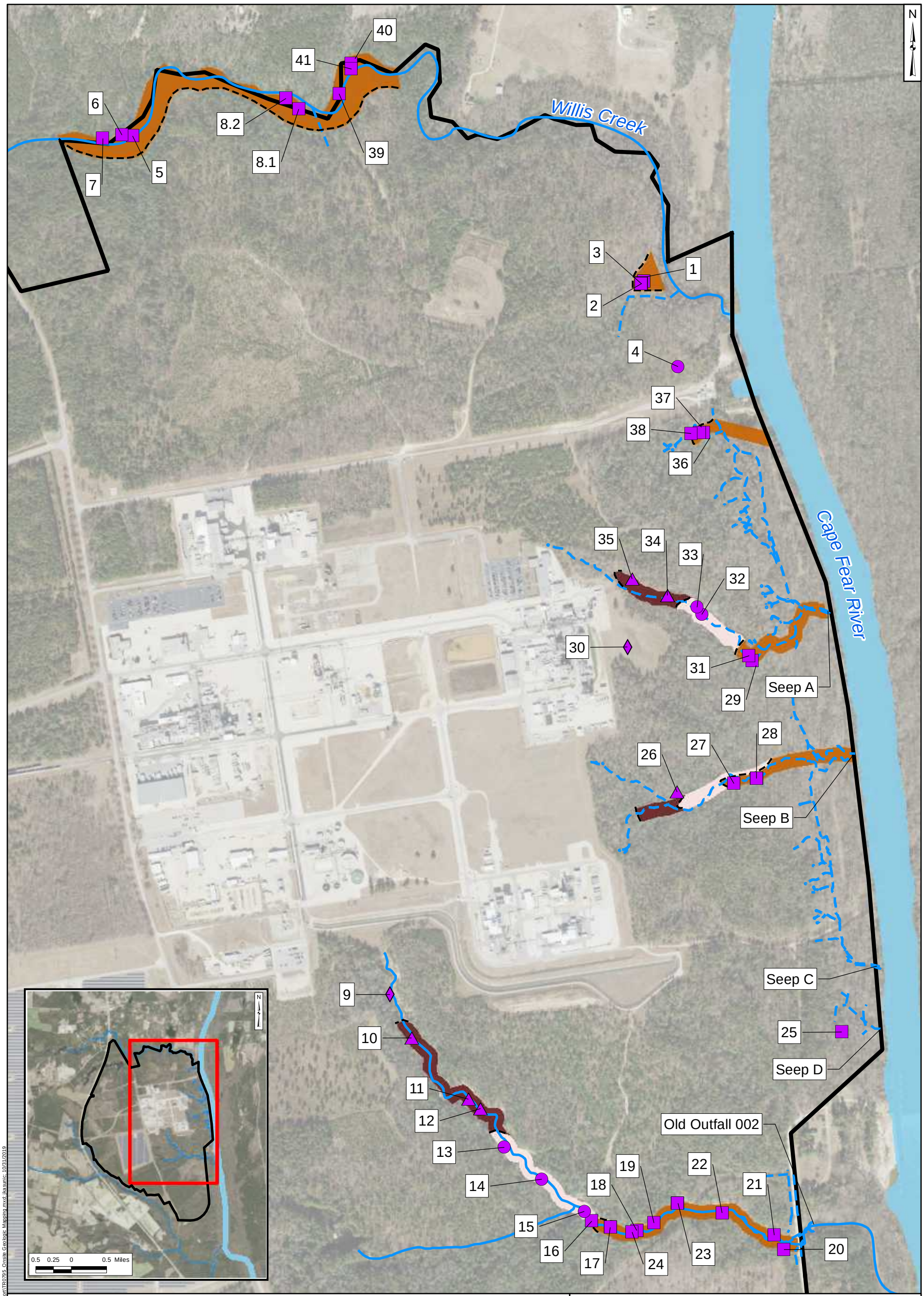
Figure **A5-4**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Underground Structures.mxd Last Revised: 10/30/2019 Author: jkasuric Data\PRJ\Projects\TR0795\Database and GIS\Illustrator\Onsite and Offsite Assessment Report\Subsurface on site\TR0795_Subsurface Structures on Site.ai

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



Legend

Station Locations

- Perched Zone
- Perched Clay
- Surficial
- Black Creek Confining Unit

- Inferred Lithologic Contacts
- Observed Seep
- Nearby Tributary
- Site Boundary

Observed Exposed Lithologies

- Black Creek Confining Unit
- Surficial
- Perched Zone

Notes:

1. Station Locations correspond to locations where outcrop exposures were visible and safely accessible. Additional information provided in Table 6-1.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Summary of Geologic Mapping Observations

Chemours Fayetteville Works, North Carolina

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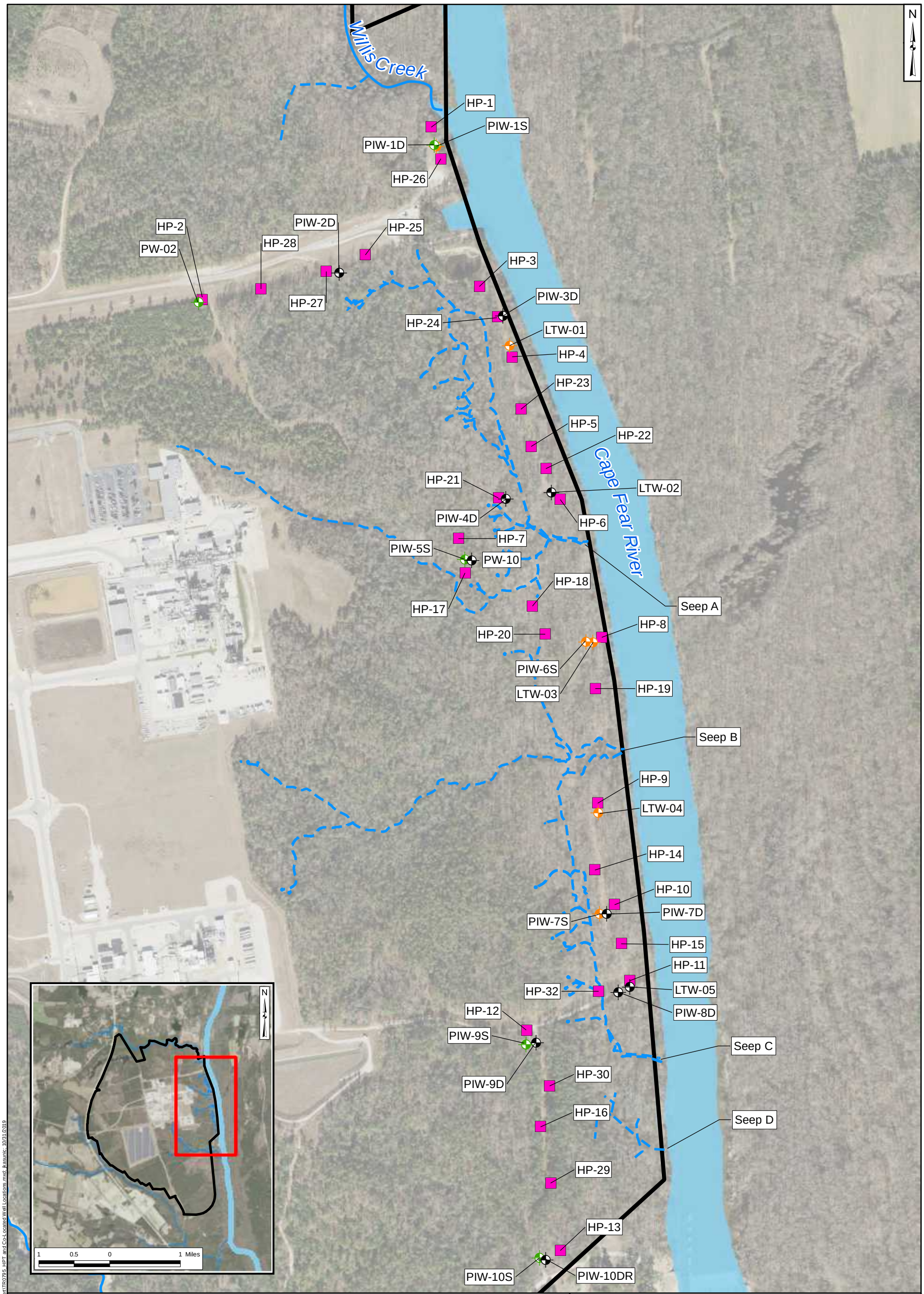
Figure **A6-1**

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Onsite Geologic Mapping.mxd; jkasunic; 10/31/2019

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



Legend

Well Type

- Surficial Aquifer
- Floodplain Deposits
- Black Creek Aquifer
- HPT/EC Boring
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:
HPT - Hydraulic Profiling Tool
EC - Electrical Conductivity

1. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map may not exactly reflect their true geographic coordinates.
2. HP- locations were not surveyed and considered approximate.
3. PIW and PW-well locations were sureyed by a licensed North Carolina Surveyor.
4. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
5. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

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

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_HPT and Co-Located Well Locations.mxd; jkasunic; 10/31/2019

HPT and Well Locations

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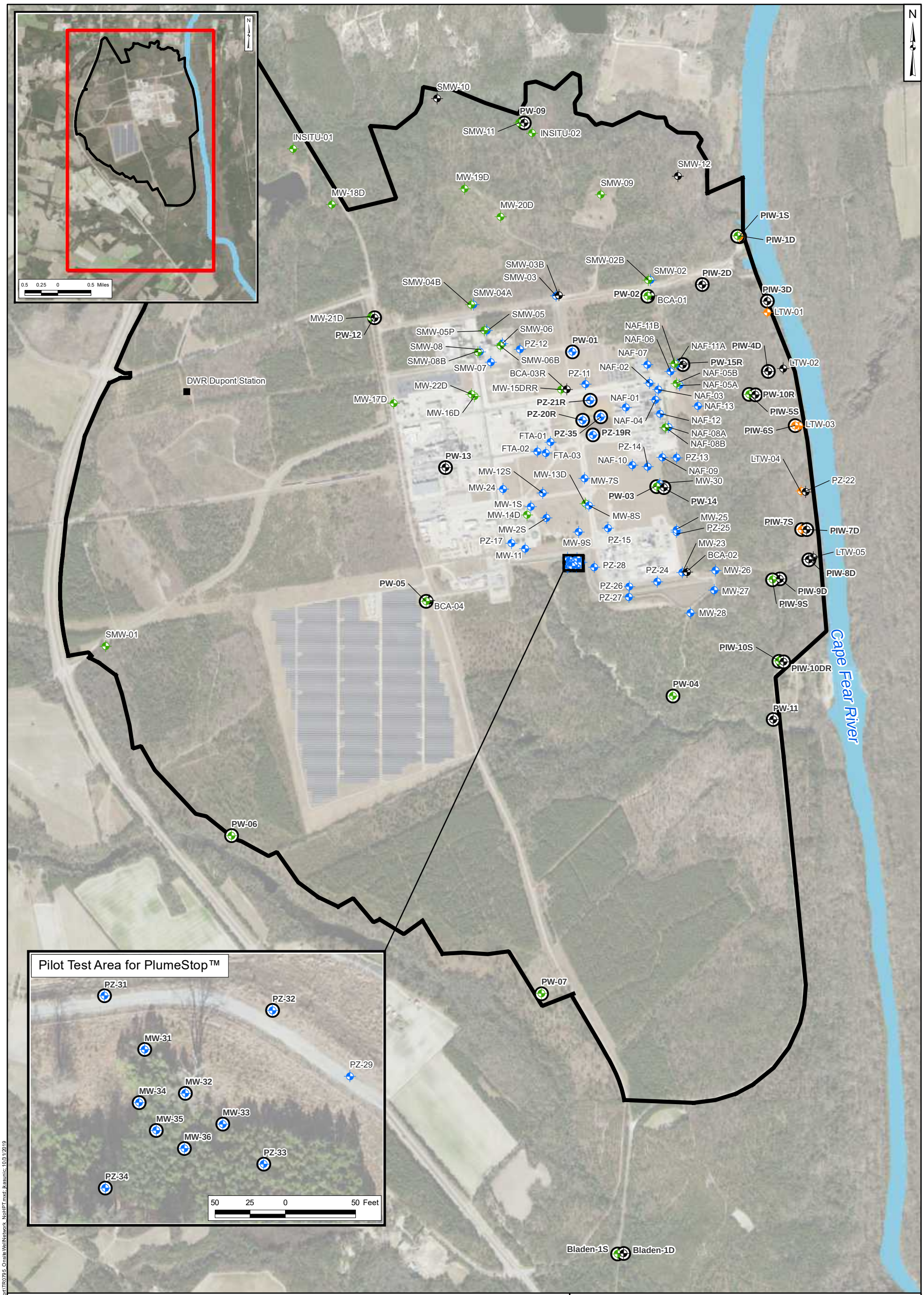
Figure **A6-2**



Legend

- Perched Zone
- Surficial Aquifer
- Floodplain Deposits
- Black Creek Aquifer
- DWR Dupont Station (V42V) Well Cluster
- 2019 Installed Wells
- Site Boundary

1,000 500 0 1,000 Feet

Onsite Monitoring Well Network

Chemours Fayetteville Works, North Carolina

Notes:
1. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

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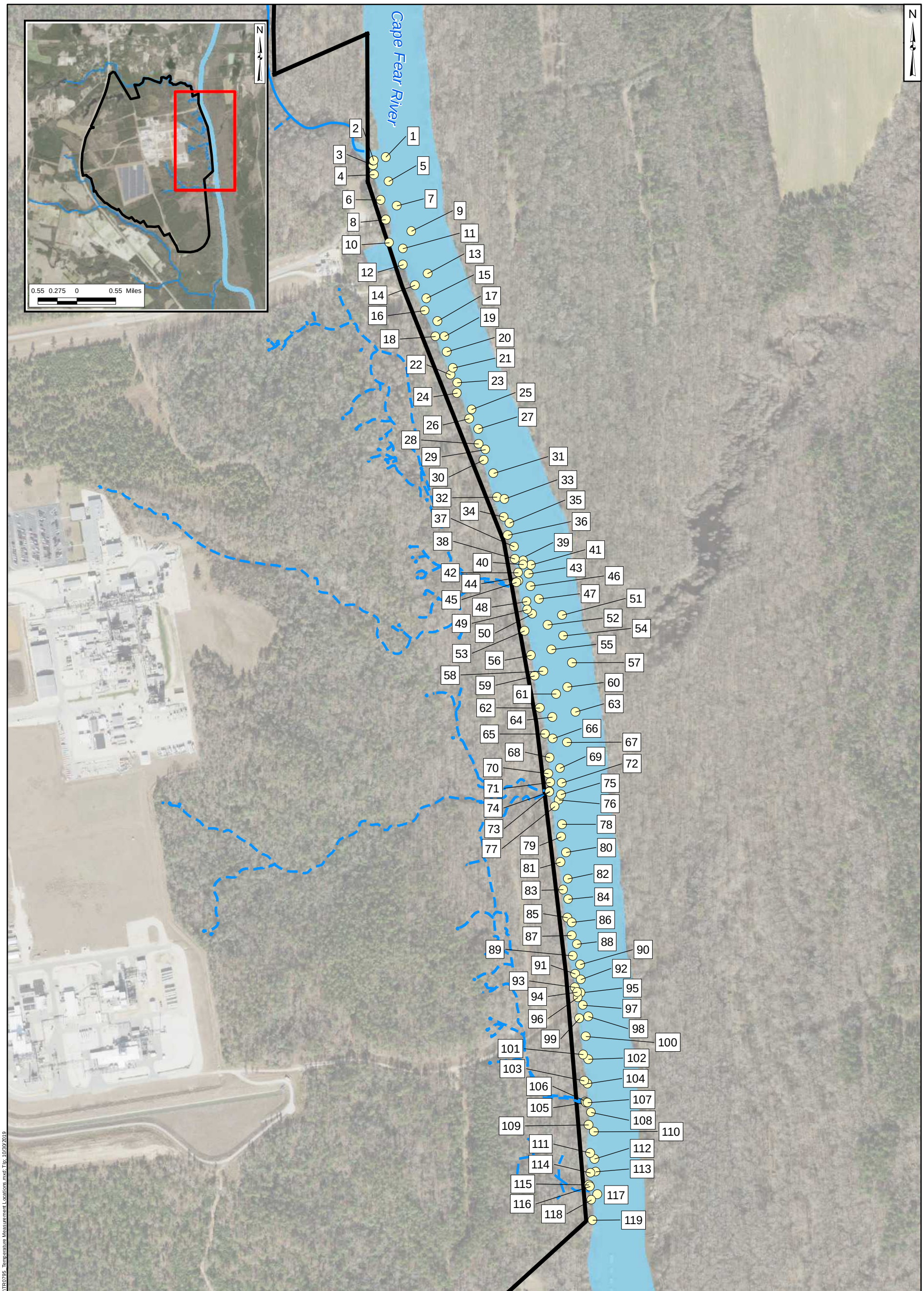
Figure A6-3

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteWellNetwork_NoHPT.mxd; jkasunic; 10/31/2019

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



Legend

109 Temperature Measurement Location

Observed Seep

Site Boundary

500 250 0 500 Feet

Cape Fear River Survey - Temperature Measurement Locations

Chemours Fayetteville Works, North Carolina

Notes:
1. Temperature measurements were collected at locations west of the thalweg from August 5 to 9, 2019.
2. Location of thalweg was estimated in the field based on field measurements of maximum depth using a depth finder.
3. All samples were located in the Cape Fear River. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).

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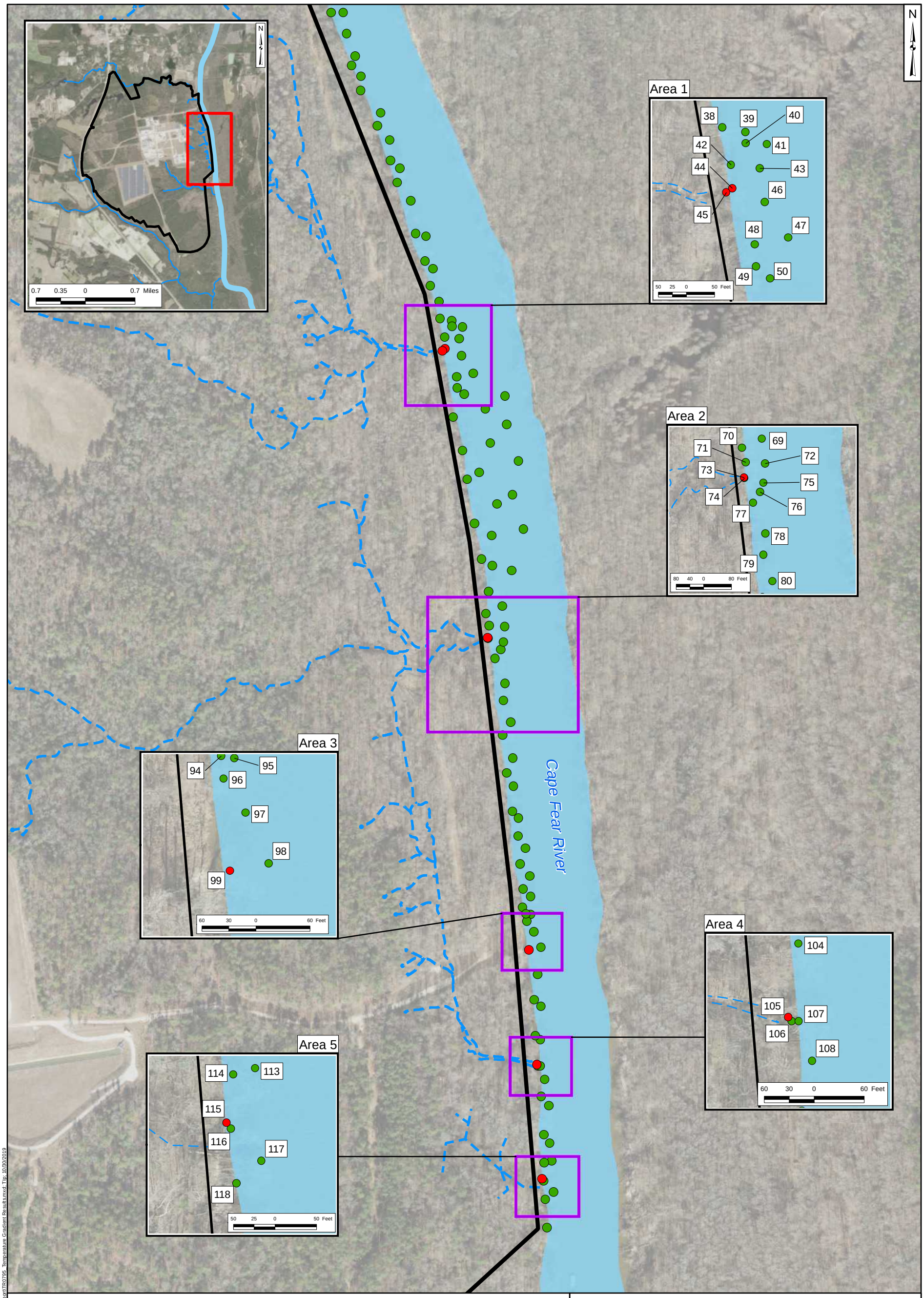
Figure A6-4

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Temperature Measurement Locations.mxd; Tlp; 10/30/2019

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



Legend

Temperature difference between porewater and 6 inches above sediment

- 0 - 0.5 °C
- 0.5 - 6.0 °C

- Observed Seep
- Nearby Tributary
- Site Boundary
- Area of Observed Temperature Differential > 0.5 °C

400 200 0 400 Feet

Temperature Gradient Results

Chemours Fayetteville Works, North Carolina

Notes:
1. Temperature measurements were collected at locations west of the thalweg from August 5 to 9, 2019.
2. Location of thalweg was estimated in the field based on field measurements of maximum depth using a depth finder.
3. All samples were located in the Cape Fear River. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).

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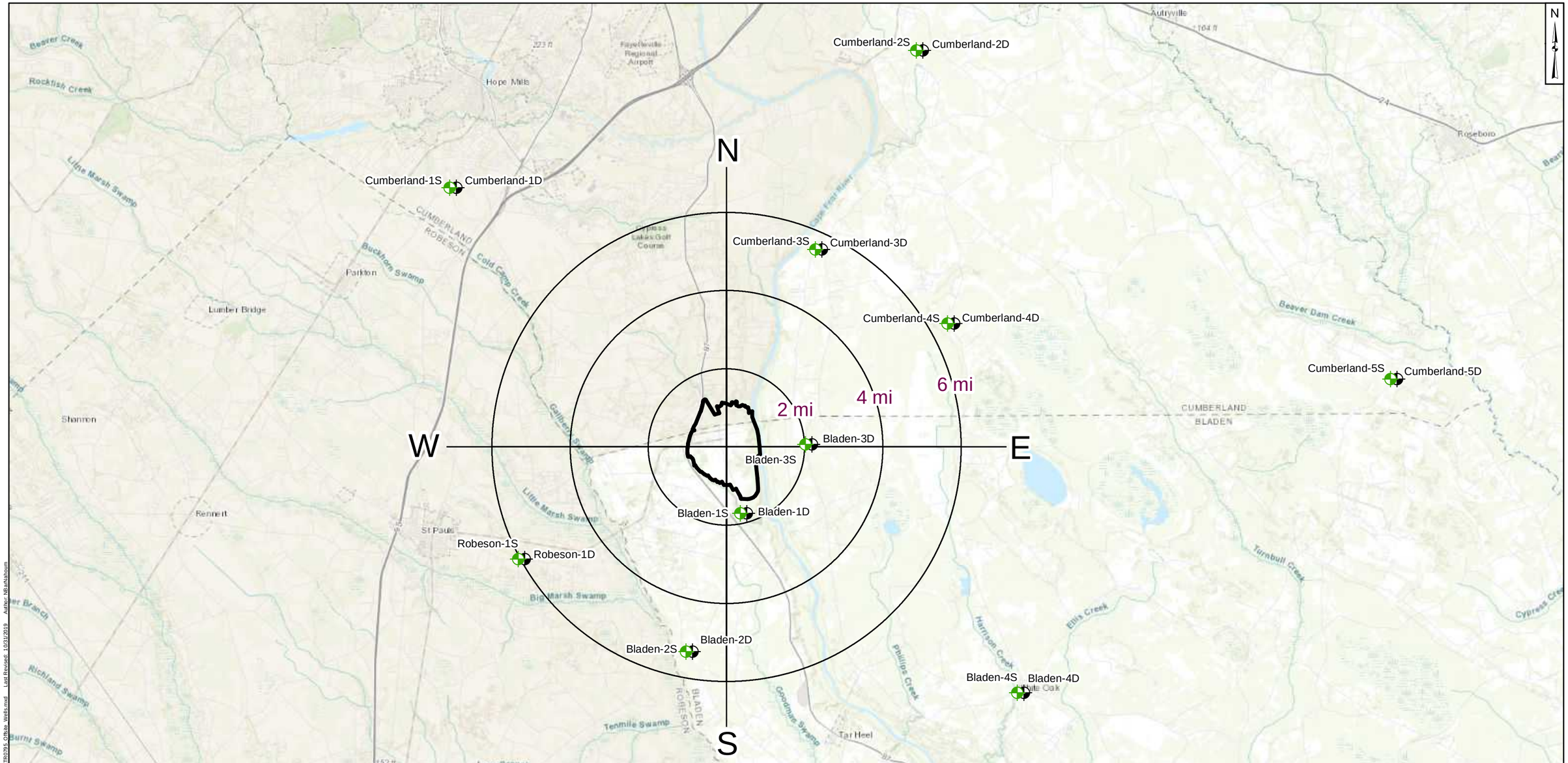
Figure **A6-5**

Path: P:\PR3\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Temperature Gradient Results.mxd; TJp; 10/30/2019

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



Legend

Well Type

- Black Creek Aquifer
- Surficial Aquifer
- Site Boundary

Notes:

1. Black lines represent cardinal directions (N, E, S, W)
2. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
3. Basemap sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

2 1 0 2 Miles

Offsite Monitoring Wells

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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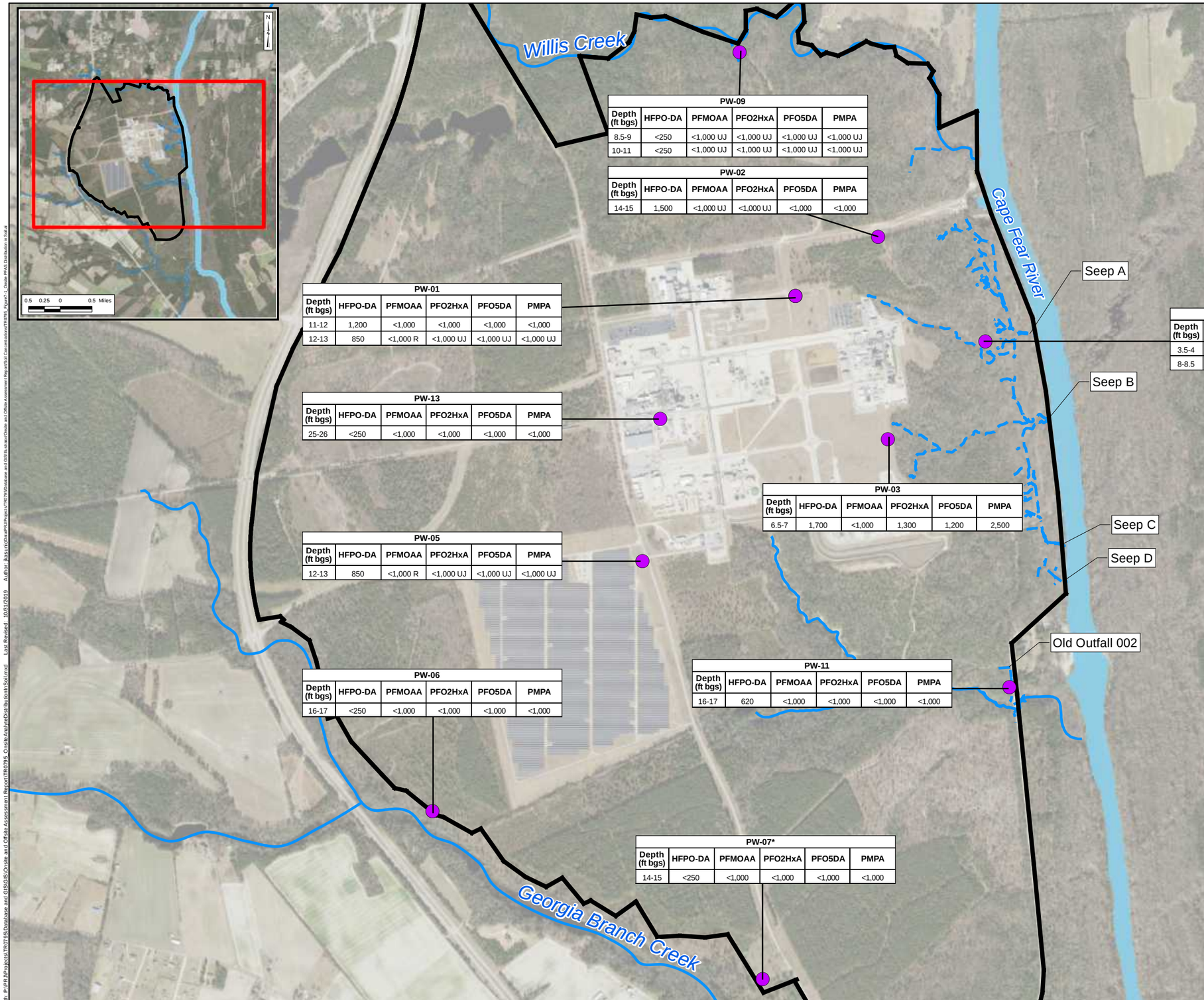
Figure **A6-6**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Offsite_Wells.mxd Last Revised: 10/31/2019 Author: NBarbahoum

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



PW-09					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
8.5-9	<250	<1,000 UJ	<1,000 UJ	<1,000 UJ	<1,000 UJ
10-11	<250	<1,000 UJ	<1,000 UJ	<1,000 UJ	<1,000 UJ

PW-02					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
14-15	1,500	<1,000 UJ	<1,000 UJ	<1,000	<1,000

PW-01					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
11-12	1,200	<1,000	<1,000	<1,000	<1,000
12-13	850	<1,000 R	<1,000 UJ	<1,000 UJ	<1,000 UJ

PW-10**					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
3.5-4	570	<1,000	<1,000	1,260 U	<1,000
8-8.5	28,000	7,300	10,000 J	5,200	27,000 J

PW-13					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
25-26	<250	<1,000	<1,000	<1,000	<1,000

PW-03					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
6.5-7	1,700	<1,000	1,300	1,200	2,500

PW-05					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
12-13	850	<1,000 R	<1,000 UJ	<1,000 UJ	<1,000 UJ

PW-11					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
16-17	620	<1,000	<1,000	<1,000	<1,000

PW-06					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
16-17	<250	<1,000	<1,000	<1,000	<1,000

PW-07*					
Depth (ft bgs)	HFPO-DA	PFMOAA	PFO2HxA	PFO5DA	PMPA
14-15	<250	<1,000	<1,000	<1,000	<1,000

Legend

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

Notes:
All measurements are in ng/kg (nanograms per kilogram).
< - Analyte not detected above associated reporting limit.
J - Analyte detected. Reported value may not be accurate or precise.
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
* Results from the field duplicate sample are not shown but results are identical to the parent sample.
**Other analytes were detected, but not shown.
1. Only unsaturated soil samples shown.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,500 750 0 1,500 Feet

Selected PFAS Concentrations in Onsite Soil

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

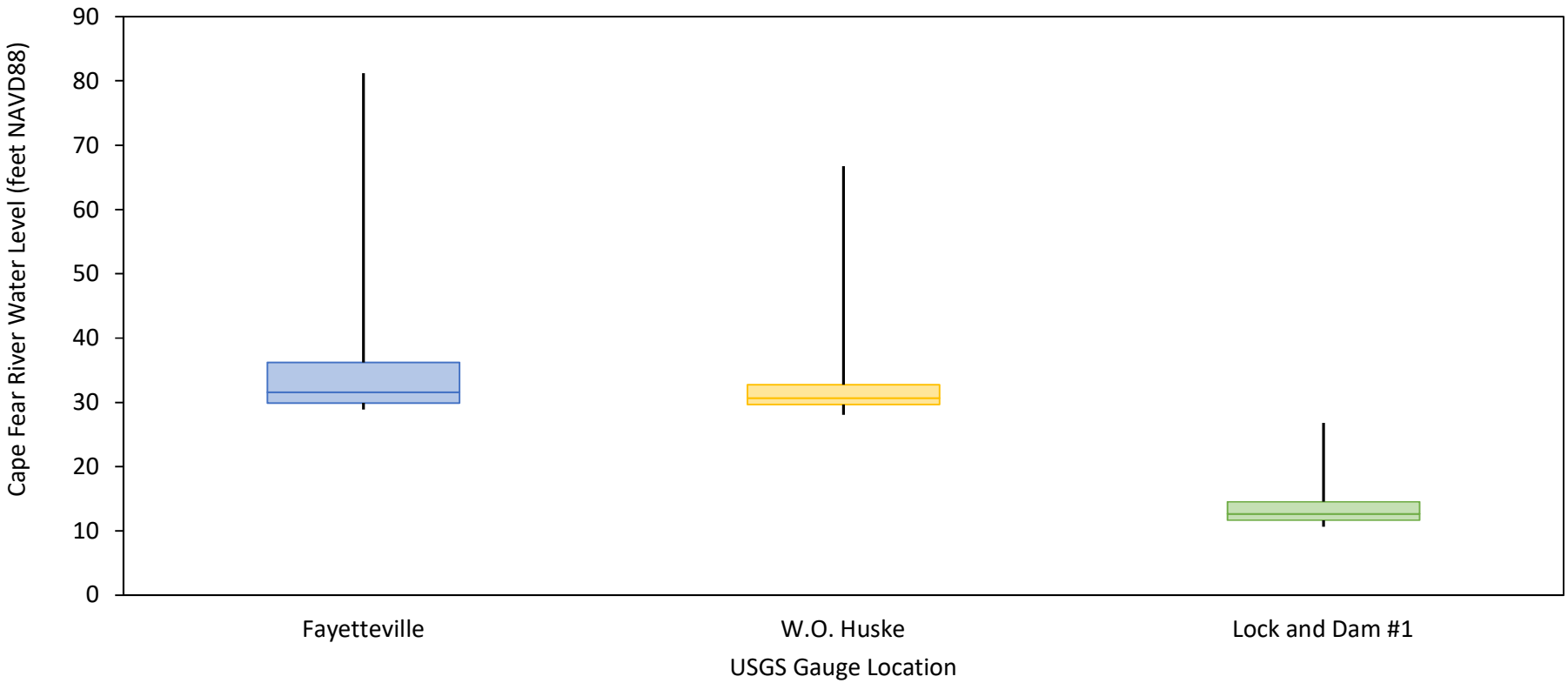
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | October 2019

Figure
A7-1

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Onsite AnalyteDistributionInSoil.mxd Last Revised: 10/31/2019 Author: jkasurd\ClientPrjs\chemrs\TR0795\Database and GIS\Illustrator\Onsite and Offsite Assessment Report\Soil Concentrations\TR0795_Figure7-1_Onsite PFAS Distribution in Soil.ai

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



Notes

NGVD29 - National Geodetic Vertical Datum of 1929
NAVD88 – North American Vertical Datum of 1988
USGS - United States Geological Survey

1. Figure includes water level data from January 1, 2014 to September 10, 2019.
2. Water level data obtained for USGS gauges at Fayetteville (USGS 02104000), W.O.Huske (USGS 2105500) and Lock and Dam #1 (USGS 02105769) from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24)
3. Measured water level datum converted from feet NGVD29 to feet NAVD88 using National Oceanic and Atmospheric Administration's VDatum tool available at vdatum.noaa.gov.
4. Line inside boxes represents the median water level.
5. Bottom and top of boxes represent the 25th and 75th percentile water levels, respectively.
6. Extent of whiskers represent range of observed water levels.

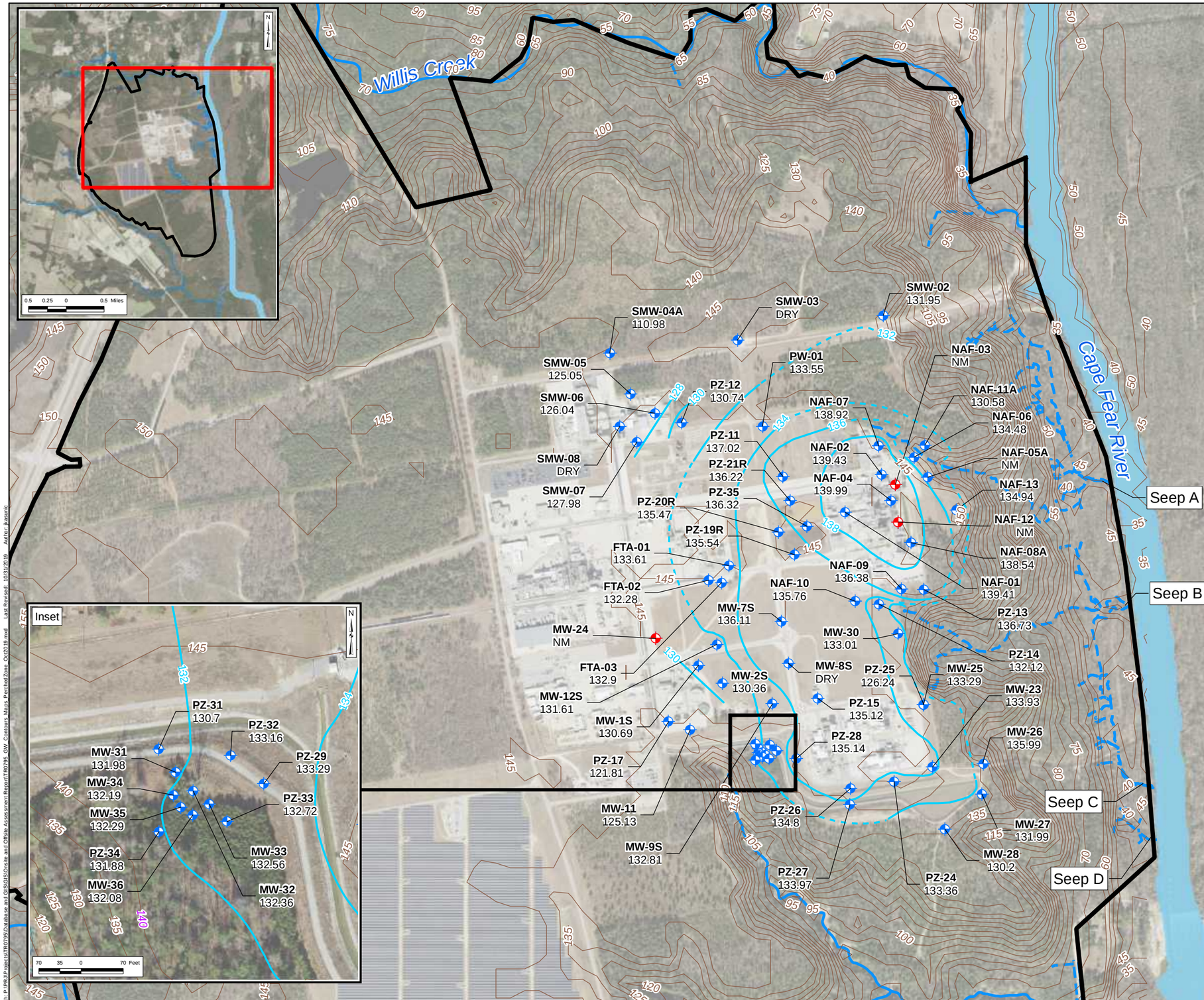
Cape Fear River Stage Variation
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | October 2019

Figure
A8-1



Legend

- Monitoring Well
- Monitoring Well Used for Groundwater Extraction
- Groundwater Contours (ft NAVD88) - 2 feet interval
- Potentiometric Surface Inferred
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

Notes:
NM - Not measured
ft NAVD88 - feet North American Vertical Datum 1988.
1. Depth to water measurements collected on October 15, 2019 used to generate contours.
2. Groundwater contours were visually interpolated using water level measurements collected 15 October 2019.
3. MW-26 and PZ-25 water levels not used in contouring.
4. Topographic contours from LiDAR Digital Elevation Model ground surface elevations collected by NC Dept. of Public Safety published 18 October 2015.
5. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
6. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
7. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Groundwater Elevation Map - Perched Zone
October 2019

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

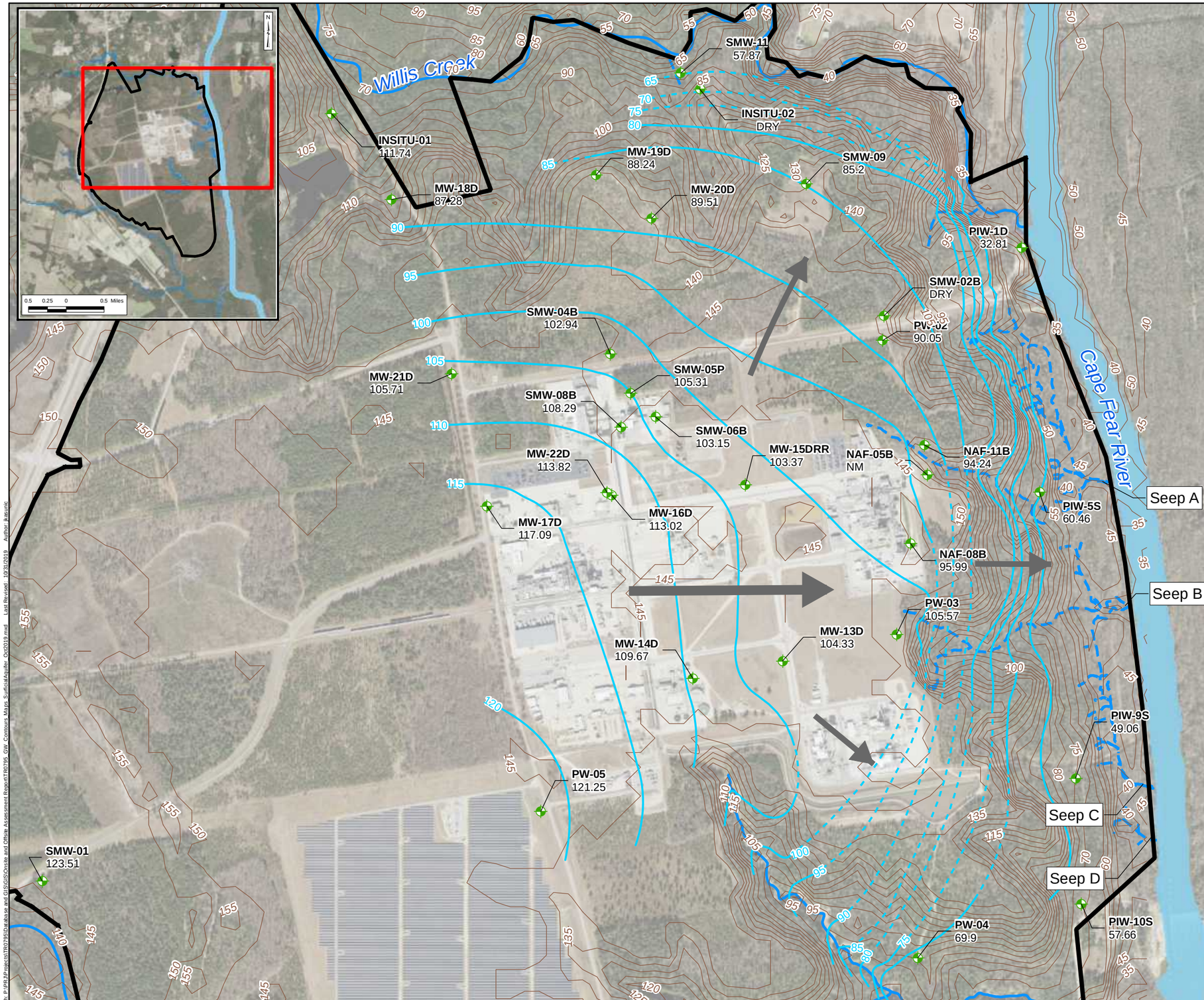
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | October 2019

Figure
A9-1

Path: P:\PR\JP\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_GW_Contours Maps Perched Zone_Oct2019.mxd Last Revised: 10/31/2019 Author: lkasunic

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



Legend

- Monitoring Well
- Groundwater Contours (ft NAVD88) - 5 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

Notes:
NM - Not measured
ft NAVD88 - feet North American Vertical Datum 1988.
1. Depth to water measurements collected on October 15, 2019 used to generate contours.
2. Groundwater contours were visually interpolated using water level measurements collected 15 October 2019.
3. Topographic contours from LiDAR Digital Elevation Model ground surface elevations collected by NC Dept. of Public Safety published 18 October 2015.
4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
5. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Groundwater Elevation Map - Surficial Aquifer
October 2019

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

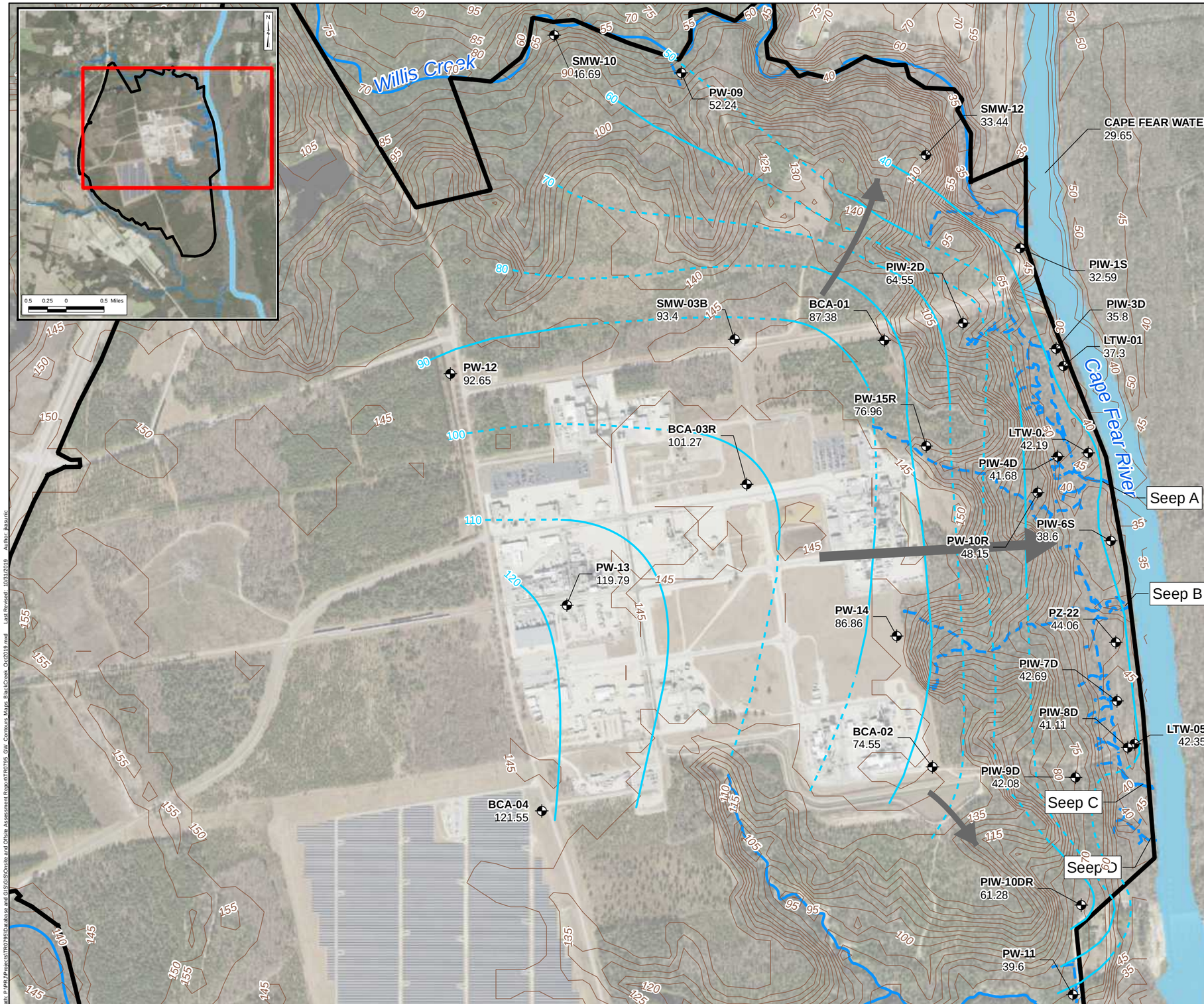
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | October 2019

Figure
A9-2

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_GW_Contours_Maps_SurficialAquifer_Oct2019.mxd Last Revised: 10/31/2019 Author: jkasunic

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



Legend

- Monitoring Well
- Groundwater Contours (ft NAVD88) - 10 feet interval
- Potentiometric Surface Inferred
- Inferred Groundwater Flow Direction
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary

Notes:
ft NAVD88 - feet North American Vertical Datum 1988.

1. Depth to water measurements collected on October 15, 2019 used to generate contours.
2. Groundwater contours were visually interpolated using water level measurements collected 15 October 2019.
3. Cape Fear River water level indicated is median value for October 15, 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-10-23).
4. Topographic contours from LiDAR Digital Elevation Model ground surface elevations collected by NC Dept. of Public Safety published 18 October 2015.
5. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
6. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Groundwater Elevation Map - Black Creek Aquifer October 2019

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

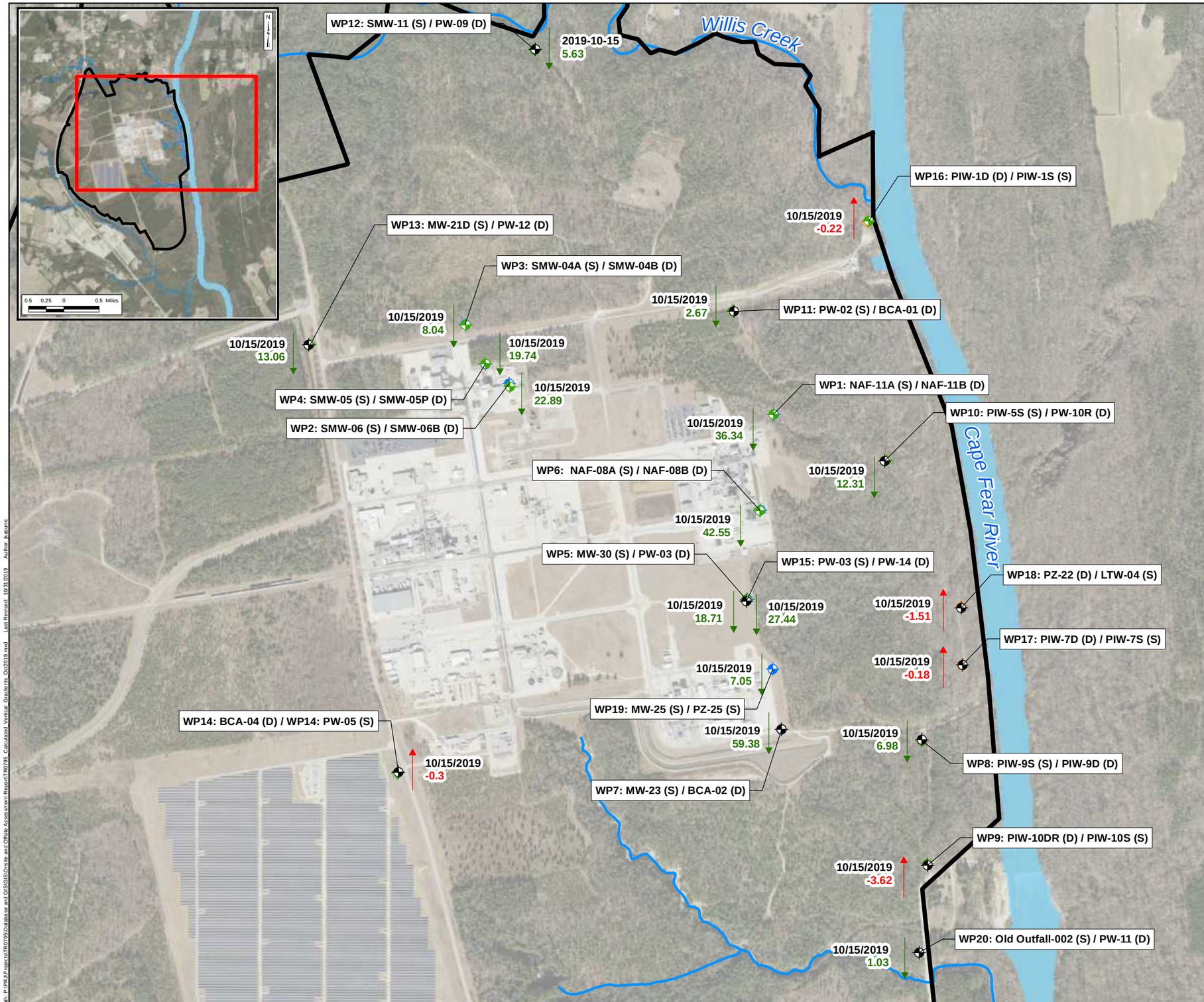
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | October 2019

Figure **A9-3**

Path: P:\PRJP\projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_GW_Contours_Maps_BlackCreek_Oct2019.mxd Last Revised: 10/31/2019 Author: jlasuric

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



Legend

- Black Creek Aquifer
- Floodplain Deposits
- Perched Aquifer; Perched Zone
- Surficial Aquifer
- Negative Vertical Gradients
- Positive Vertical Gradients
- Nearby Tributary
- Site Boundary

Notes:
1. Positive vertical gradients (i.e. potential for downward flow) are colored in green. Negative vertical gradients (i.e. potential for upward flow) are colored in red.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. WP corresponds to well pair ID listed in Table 9-2.
4. (s) and (d) refers to shallow and deep well of well pair.
5. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Calculated Vertical Gradients Between Selected Stratigraphic Units

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

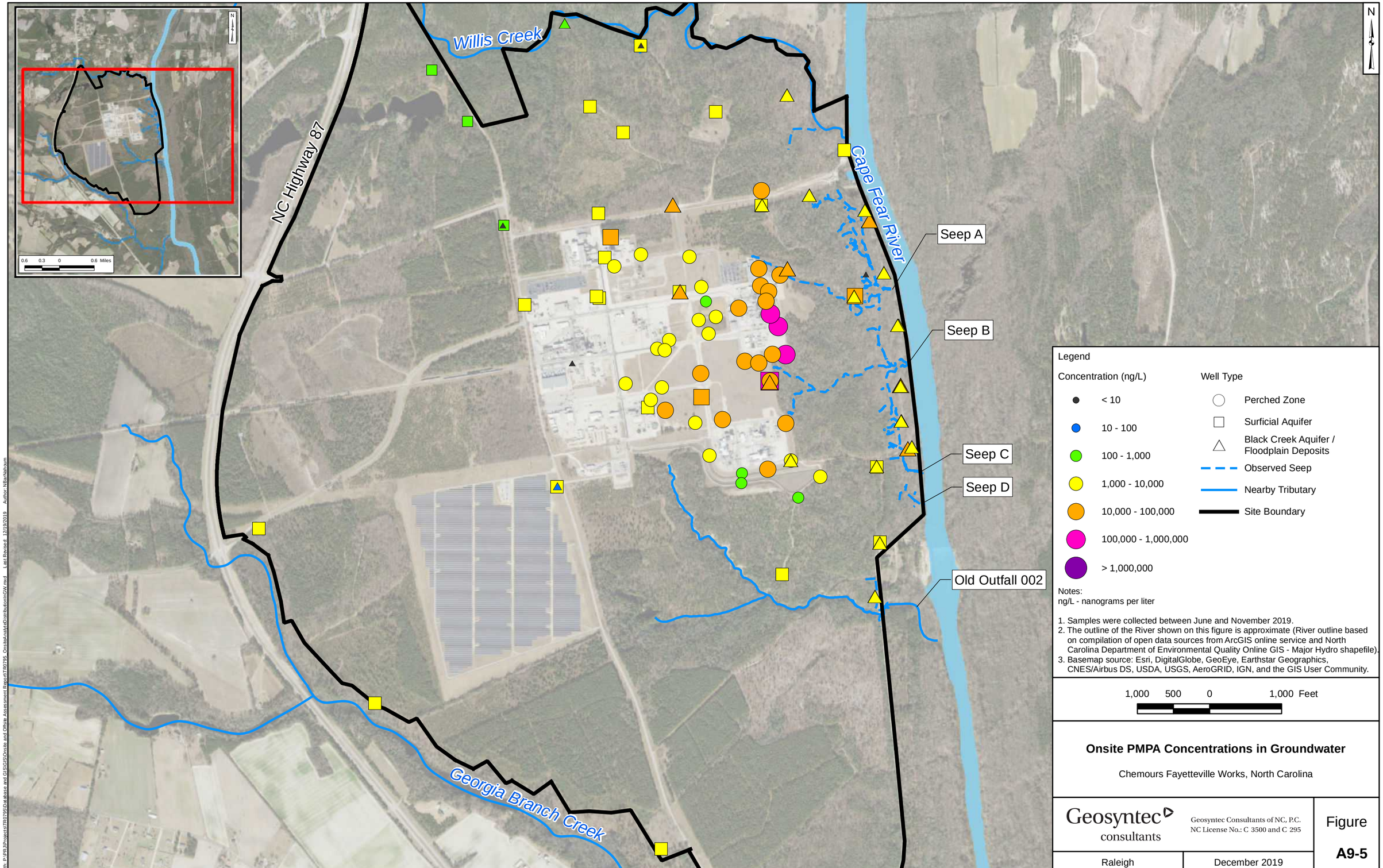
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

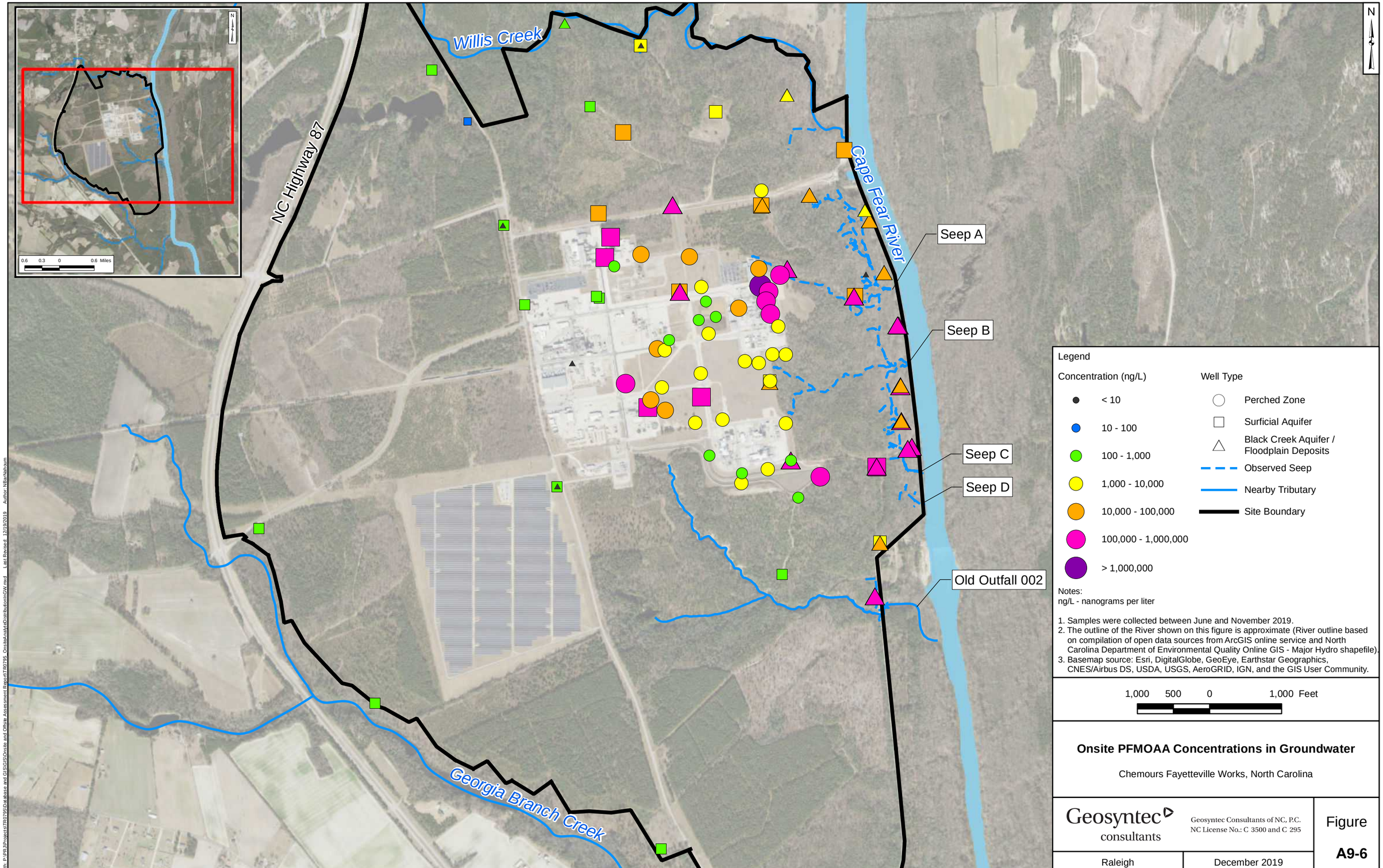
Raleigh | October 2019

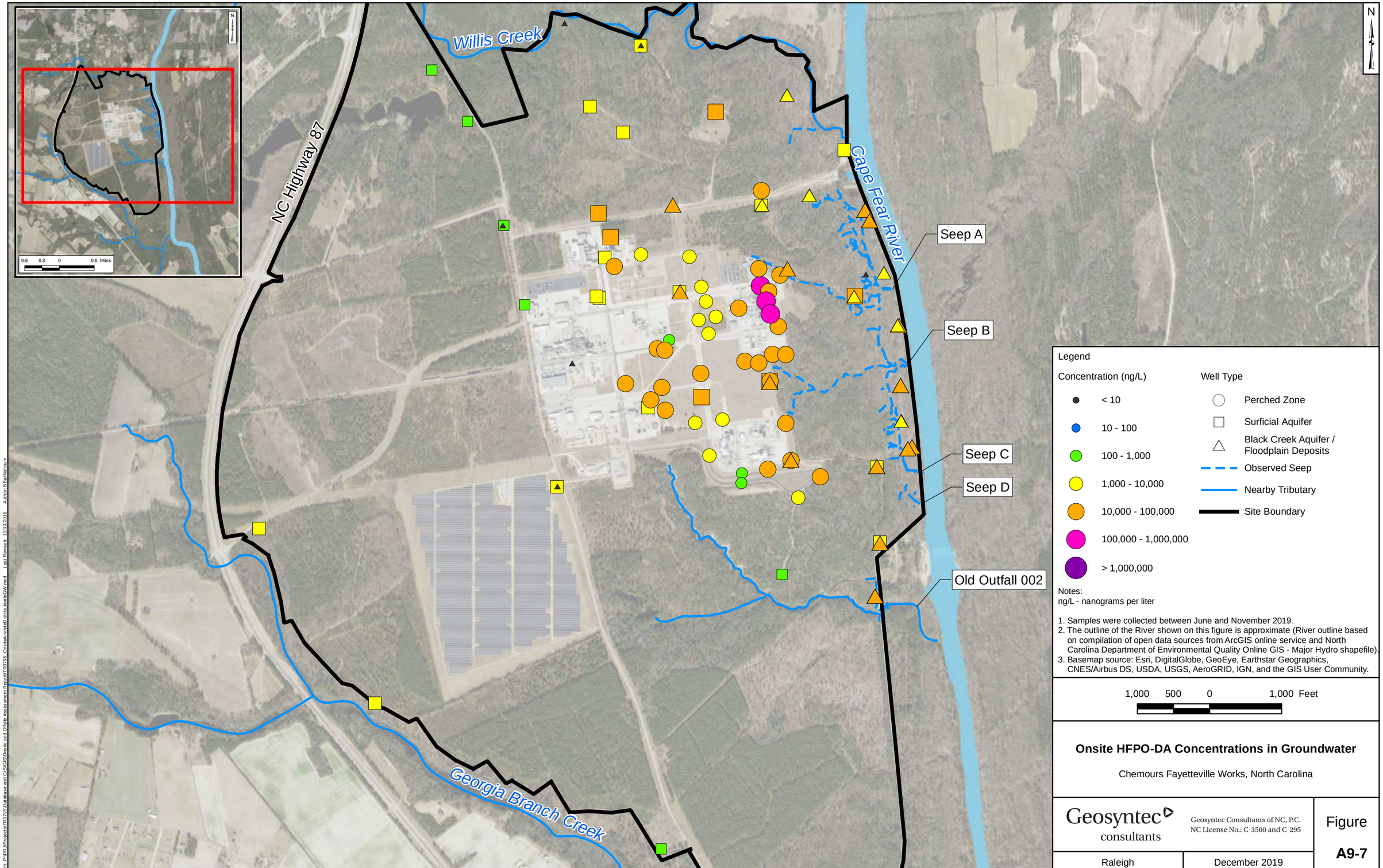
Figure **A9-4**

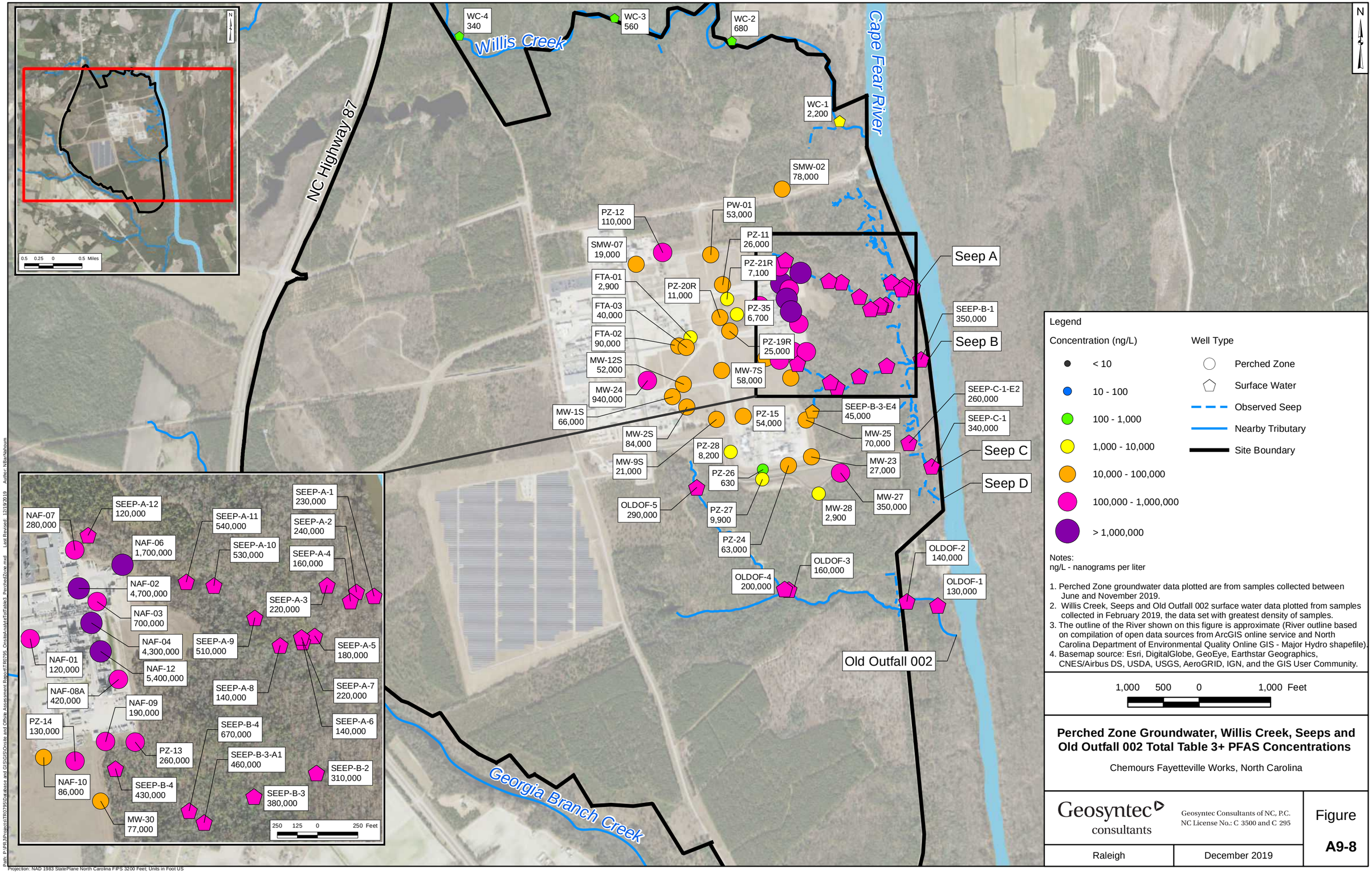
Path: P:\PR\JP\projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Calculated Vertical Gradients_Oct2019.mxd Last Revised: 10/31/2019 Author: jkatunic

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


Willis Creek
NC Highway 87
Cape Fear River
Seep A
Seep B
Seep C
Seep D
Old Outfall 002
Georgia Branch Creek
N
0.6 0.3 0 0.6 Miles
Legend
Concentration (ng/L)
< 10
10 - 100
100 - 1,000
1,000 - 10,000
10,000 - 100,000
100,000 - 1,000,000
> 1,000,000
Well Type
Perched Zone
Surficial Aquifer
Black Creek Aquifer / Floodplain Deposits
Observed Seep
Nearby Tributary
Site Boundary
Notes:
ng/L - nanograms per liter
1. Samples were collected between June and November 2019.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
1,000 500 0 1,000 Feet
Onsite PMPA Concentrations in Groundwater
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
A9-5
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteAnalytiDistributioninGW.mxd Last Revised: 12/19/2019 Author: NBarNahum
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US


Willis Creek
NC Highway 87
Cape Fear River
Seep A
Seep B
Seep C
Seep D
Old Outfall 002
Georgia Branch Creek
N
0.6 0.3 0 0.6 Miles
Legend
Concentration (ng/L)
< 10
10 - 100
100 - 1,000
1,000 - 10,000
10,000 - 100,000
100,000 - 1,000,000
> 1,000,000
Well Type
Perched Zone
Surficial Aquifer
Black Creek Aquifer / Floodplain Deposits
Observed Seep
Nearby Tributary
Site Boundary
Notes:
ng/L - nanograms per liter
1. Samples were collected between June and November 2019.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
1,000 500 0 1,000 Feet
Onsite PFMOAA Concentrations in Groundwater
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
A9-6
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteAnalytiDistributioninGW.mxd Last Revised: 12/19/2019 Author: NBurNahum
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US


Willis Creek
NC Highway 87
Cape Fear River
Seep A
Seep B
Seep C
Seep D
Old Outfall 002
Georgia Branch Creek
N
0.6 0.3 0 0.6 Miles
Legend
Concentration (ng/L)
< 10
10 - 100
100 - 1,000
1,000 - 10,000
10,000 - 100,000
100,000 - 1,000,000
> 1,000,000
Well Type
Perched Zone
Surficial Aquifer
Black Creek Aquifer / Floodplain Deposits
Observed Seep
Nearby Tributary
Site Boundary
Notes:
ng/L - nanograms per liter
1. Samples were collected between June and November 2019.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
1,000 500 0 1,000 Feet
Onsite HFPO-DA Concentrations in Groundwater
Chemours Fayetteville Works, North Carolina
Geosyntec consultants
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295
Figure
A9-7
Raleigh
December 2019
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteAnalytiDistributioninGW.mxd Last Revised: 12/19/2019 Author: NBarNahum
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US



Notes:
ng/L - nanograms per liter

1. Perched Zone groundwater data plotted are from samples collected between June and November 2019.
2. Willis Creek, Seeps and Old Outfall 002 surface water data plotted from samples collected in February 2019, the data set with greatest density of samples.
3. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
4. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Perched Zone Groundwater, Willis Creek, Seeps and Old Outfall 002 Total Table 3+ PFAS Concentrations

Chemours Fayetteville Works, North Carolina

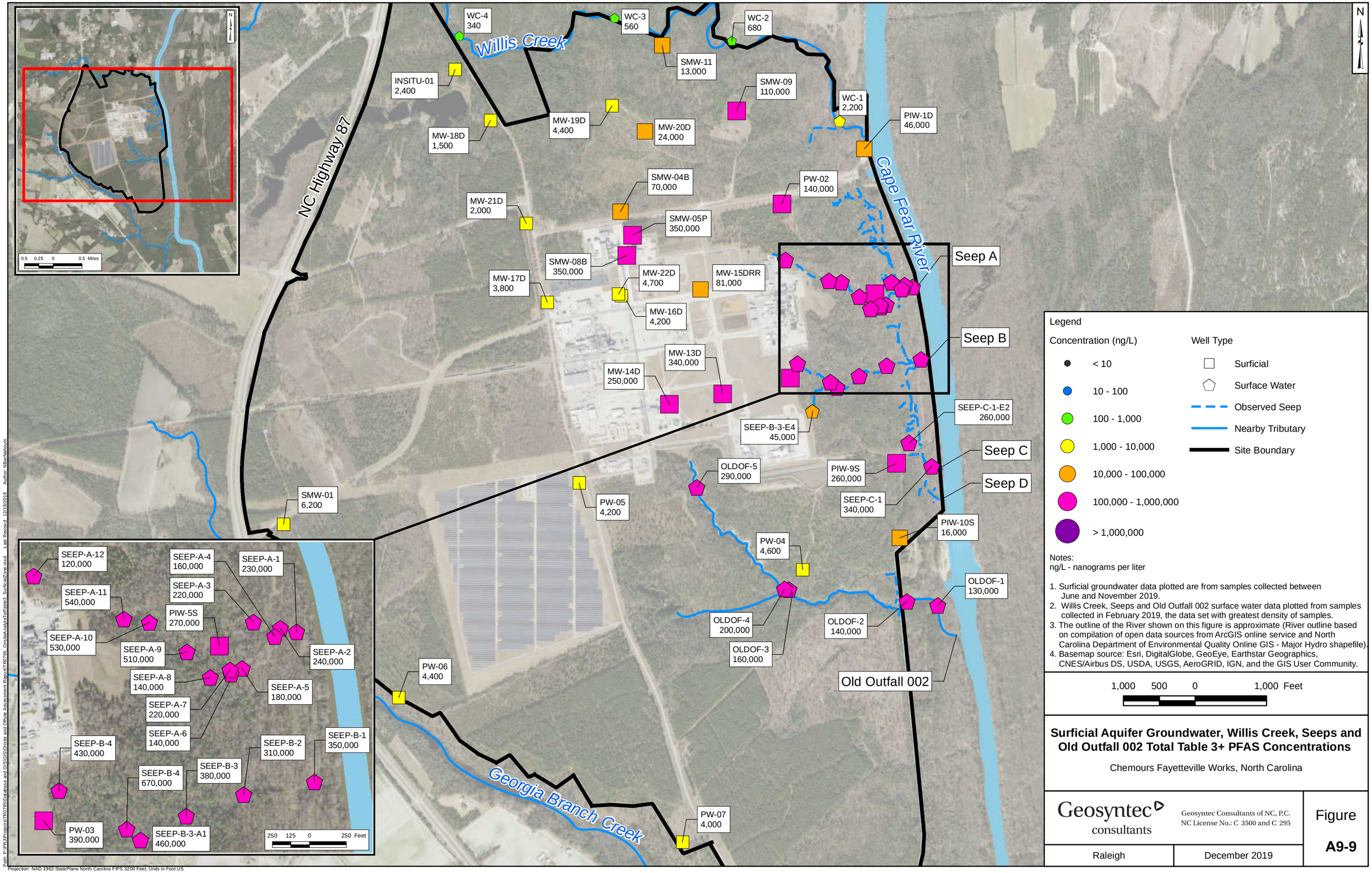
Geosyntec consultants

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

Raleigh | December 2019

Figure **A9-8**

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



Notes:
ng/L - nanograms per liter

1. Surficial groundwater data plotted are from samples collected between June and November 2019.
2. Willis Creek, Seeps and Old Outfall 002 surface water data plotted from samples collected in February 2019, the data set with greatest density of samples.
3. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
4. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Surficial Aquifer Groundwater, Willis Creek, Seeps and Old Outfall 002 Total Table 3+ PFAS Concentrations

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

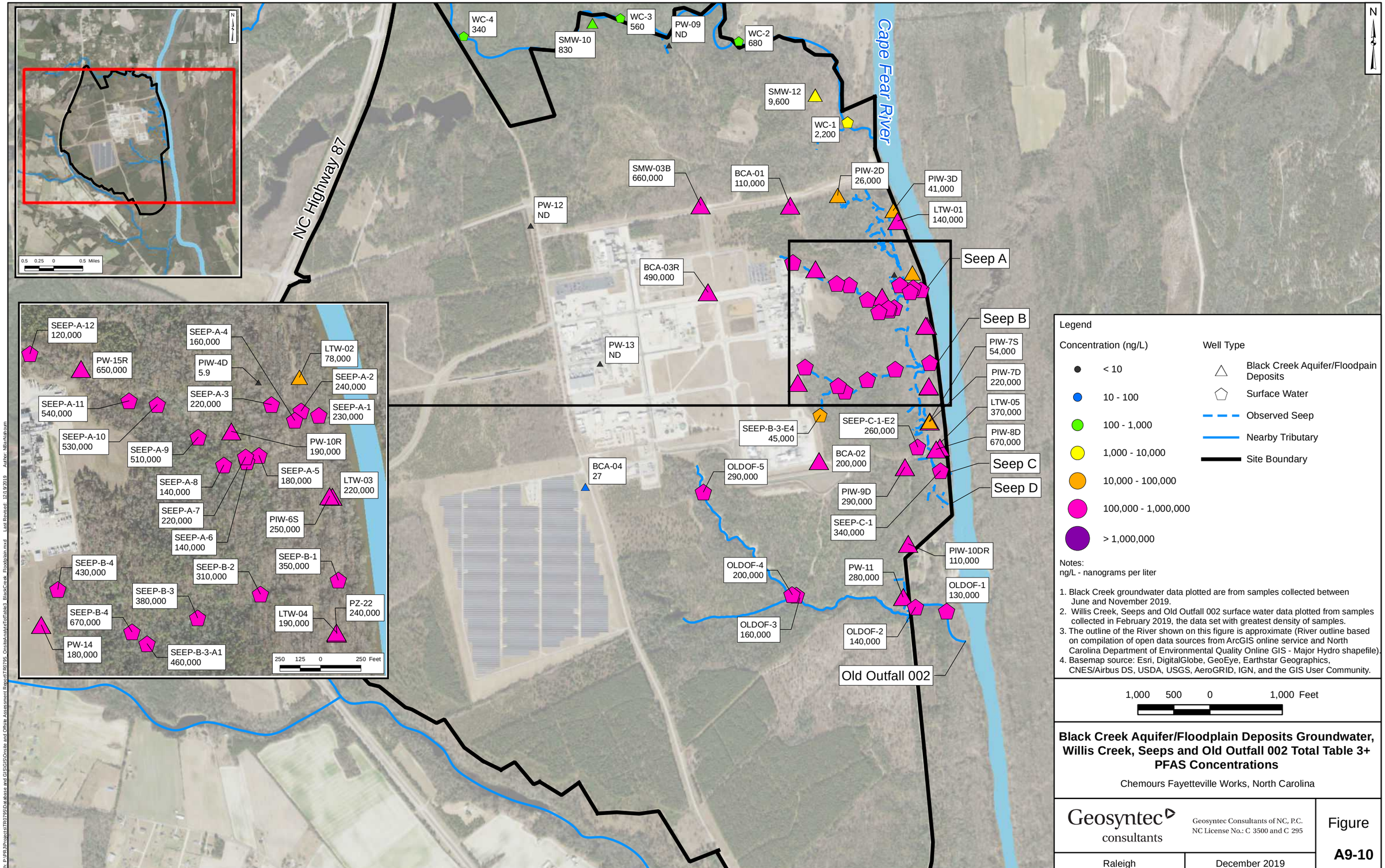
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | December 2019

Figure
A9-9

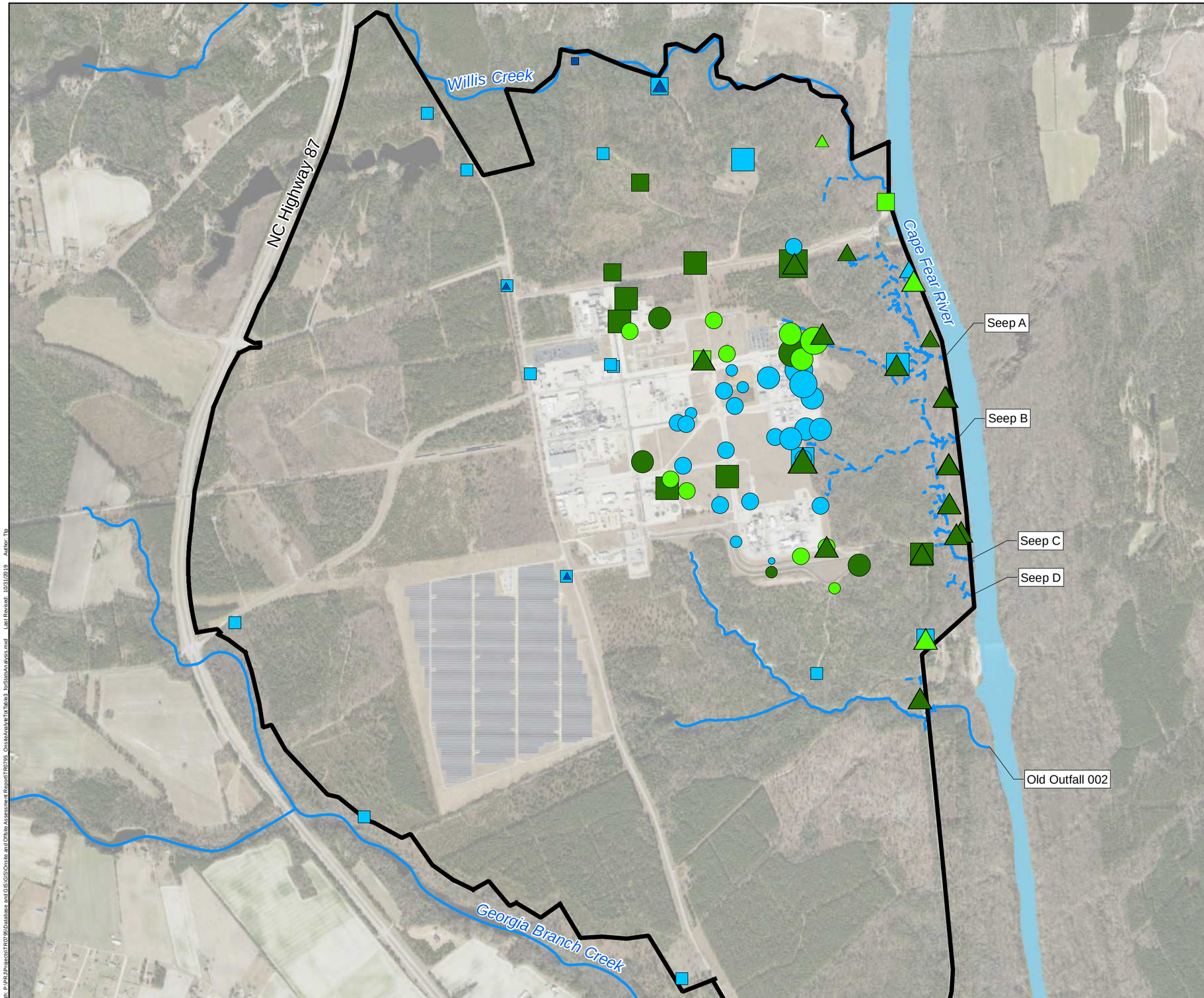
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteAnalyteToTable3_SurficialZone.mxd Last Revised: 12/19/2019 Author: NBarNahoum

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



Black Creek Aquifer/Floodplain Deposits Groundwater, Willis Creek, Seeps and Old Outfall 002 Total Table 3+ PFAS Concentrations

Chemours Fayetteville Works, North Carolina



Legend

Concentration (ng/L)

- < 1,000
- 1,000 - 10,000
- 10,000 - 100,000
- 100,000 - 1,000,000
- > 1.000,000

Well Type

- Black Creek/Floodplain Deposits
- Perched Zone
- Surficial

Proposed PFAS Signature

- Aerial - Predominant PMPA
- Aerial - Mixture of PFAS
- Combined Process Water - Predominant PFMOAA
- Combined Process Water - Mixture of PFAS
- Observed Seep
- Nearby Tributary
- Site Boundary

N

Notes:
ng/L - nanograms per liter

1. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
2. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Onsite Spatial Distribution of Proposed PFAS Signatures

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

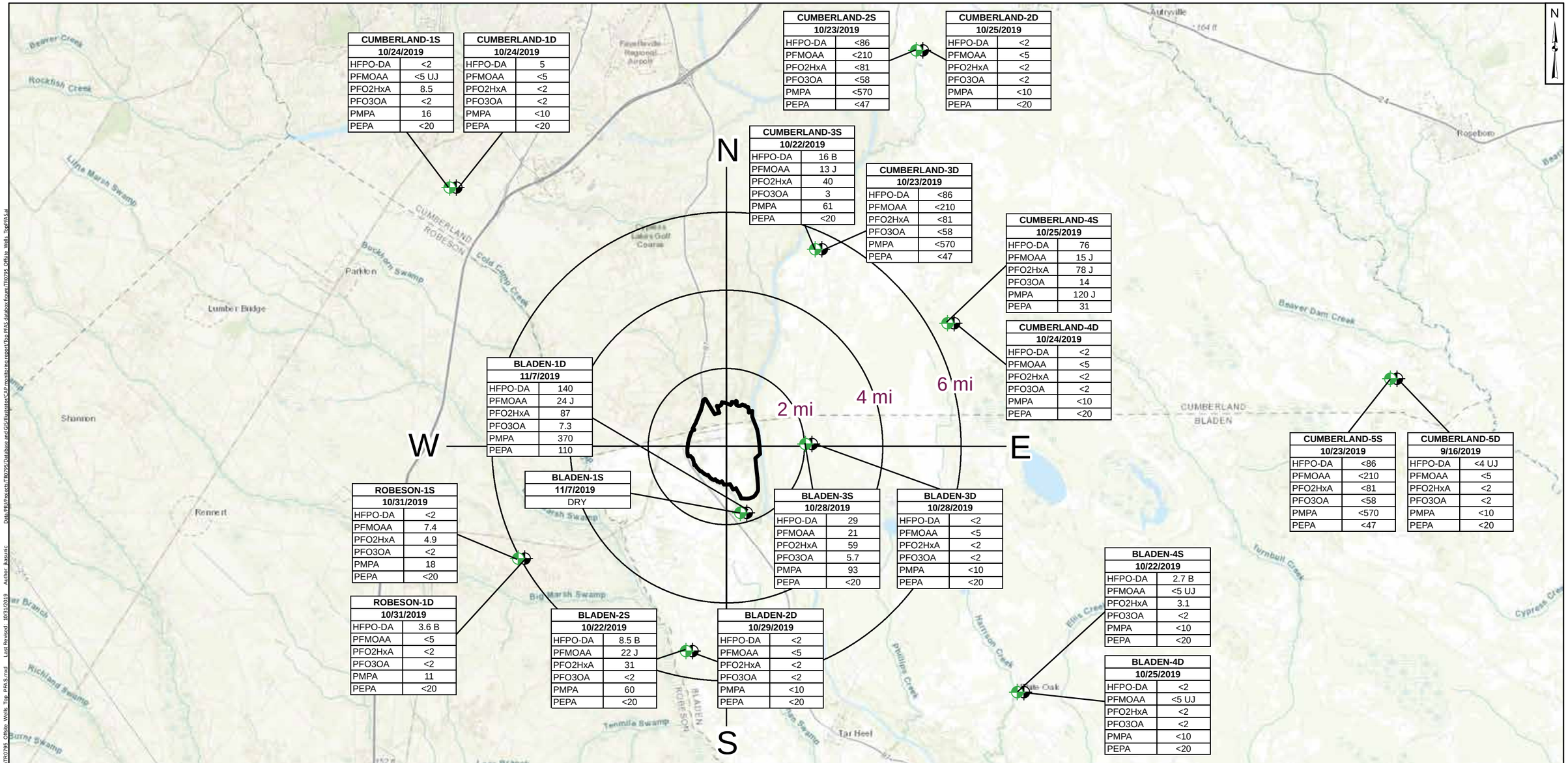
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | October 2019

Figure **A9-11**

Path: P:\PFA\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteAnalyteTotTable3_forStatsAnalysis.mxd Last Revised: 10/31/2019 Author: Tip

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



CUMBERLAND-1S	
10/24/2019	
HFPO-DA	<2
PFMOAA	<5 UJ
PFO2HxA	8.5
PFO3OA	<2
PMPA	16
PEPA	<20

CUMBERLAND-1D	
10/24/2019	
HFPO-DA	5
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

CUMBERLAND-2S	
10/23/2019	
HFPO-DA	<86
PFMOAA	<210
PFO2HxA	<81
PFO3OA	<58
PMPA	<570
PEPA	<47

CUMBERLAND-2D	
10/25/2019	
HFPO-DA	<2
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

CUMBERLAND-3S	
10/22/2019	
HFPO-DA	16 B
PFMOAA	13 J
PFO2HxA	40
PFO3OA	3
PMPA	61
PEPA	<20

CUMBERLAND-3D	
10/23/2019	
HFPO-DA	<86
PFMOAA	<210
PFO2HxA	<81
PFO3OA	<58
PMPA	<570
PEPA	<47

CUMBERLAND-4S	
10/25/2019	
HFPO-DA	76
PFMOAA	15 J
PFO2HxA	78 J
PFO3OA	14
PMPA	120 J
PEPA	31

CUMBERLAND-4D	
10/24/2019	
HFPO-DA	<2
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

CUMBERLAND-5S	
10/23/2019	
HFPO-DA	<86
PFMOAA	<210
PFO2HxA	<81
PFO3OA	<58
PMPA	<570
PEPA	<47

CUMBERLAND-5D	
9/16/2019	
HFPO-DA	<4 UJ
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

BLADEN-1D	
11/7/2019	
HFPO-DA	140
PFMOAA	24 J
PFO2HxA	87
PFO3OA	7.3
PMPA	370
PEPA	110

BLADEN-1S	
11/7/2019	
DRY	

ROBESON-1S	
10/31/2019	
HFPO-DA	<2
PFMOAA	7.4
PFO2HxA	4.9
PFO3OA	<2
PMPA	18
PEPA	<20

ROBESON-1D	
10/31/2019	
HFPO-DA	3.6 B
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	11
PEPA	<20

BLADEN-3S	
10/28/2019	
HFPO-DA	29
PFMOAA	21
PFO2HxA	59
PFO3OA	5.7
PMPA	93
PEPA	<20

BLADEN-3D	
10/28/2019	
HFPO-DA	<2
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

BLADEN-2S	
10/22/2019	
HFPO-DA	8.5 B
PFMOAA	22 J
PFO2HxA	31
PFO3OA	<2
PMPA	60
PEPA	<20

BLADEN-2D	
10/29/2019	
HFPO-DA	<2
PFMOAA	<5
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

BLADEN-4S	
10/22/2019	
HFPO-DA	2.7 B
PFMOAA	<5 UJ
PFO2HxA	3.1
PFO3OA	<2
PMPA	<10
PEPA	<20

BLADEN-4D	
10/25/2019	
HFPO-DA	<2
PFMOAA	<5 UJ
PFO2HxA	<2
PFO3OA	<2
PMPA	<10
PEPA	<20

Legend

Well Type

- Black Creek Aquifer
- Surficial Aquifer
- Site Boundary

Notes:
All measurements are in ng/L (nanograms per litre).
< - Analyte not detected above associated reporting limit.
J - Analyte detected. Reported value may not be accurate or precise.
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
1. Black lines represent cardinal directions (N, E, S, W)
2. Only the six most frequently detected Table 3+ compounds in offsite wells are shown.
3. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
4. Date indicated is date of sample collection.
5. Table 3+ compounds abbreviations referenced in Table A2-1 of the report.
6. "DRY" indicates well was dry at the time of sampling.
7. Basemap sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

2 1 0 2 Miles

Selected PFAS Concentrations in Offsite Groundwater

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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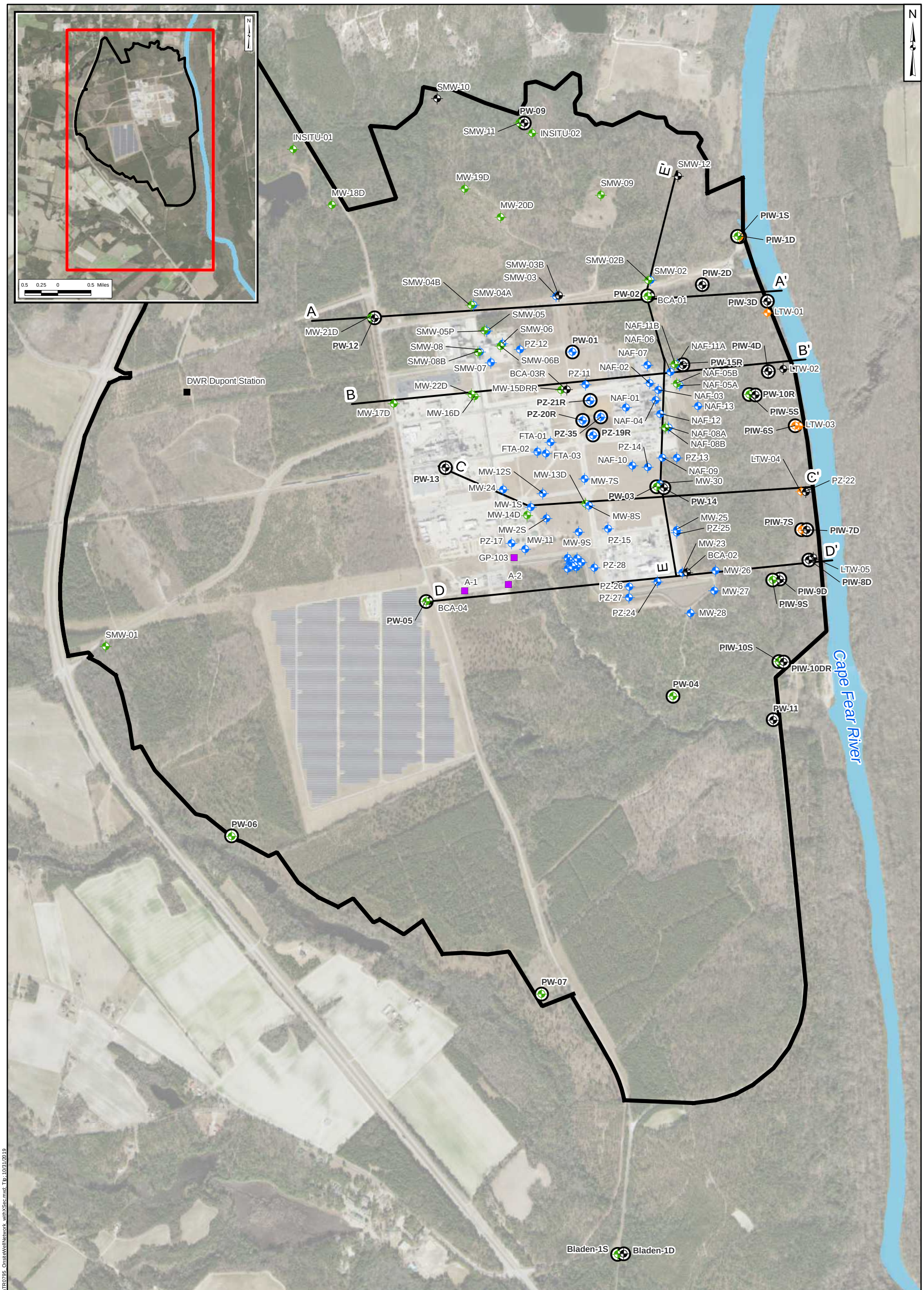
Figure **A9-12**

Path: P:\PR\Projects\TR0739\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_Offsite_Wells_Top_PFAS.mxd Last Revised: 10/31/2019 Author: jkasunic Data:P:\Projects\TR0795\Database and GIS\Illustrator\CAP monitoring report\Top PFAS databox figure\TR0795_Offsite_Wells_TopPFAS.ai

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



Legend

- Perched Zone
- Surficial Aquifer
- Floodplain Deposits
- Black Creek Aquifer
- 2019 Installed Wells
- DWR Dupont Station (V42V) Well Cluster
- CPT/DPT Soil Boring
- Site Boundary
- Cross-Section

1,000 500 0 1,000 Feet

Notes:
1. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
2. The outline of the River shown on this figure is approximate (River outline based on compilation of open data sources from ArcGIS online service and North Carolina Department of Environmental Quality Online GIS - Major Hydro shapefile).
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Onsite Cross-Section Lines

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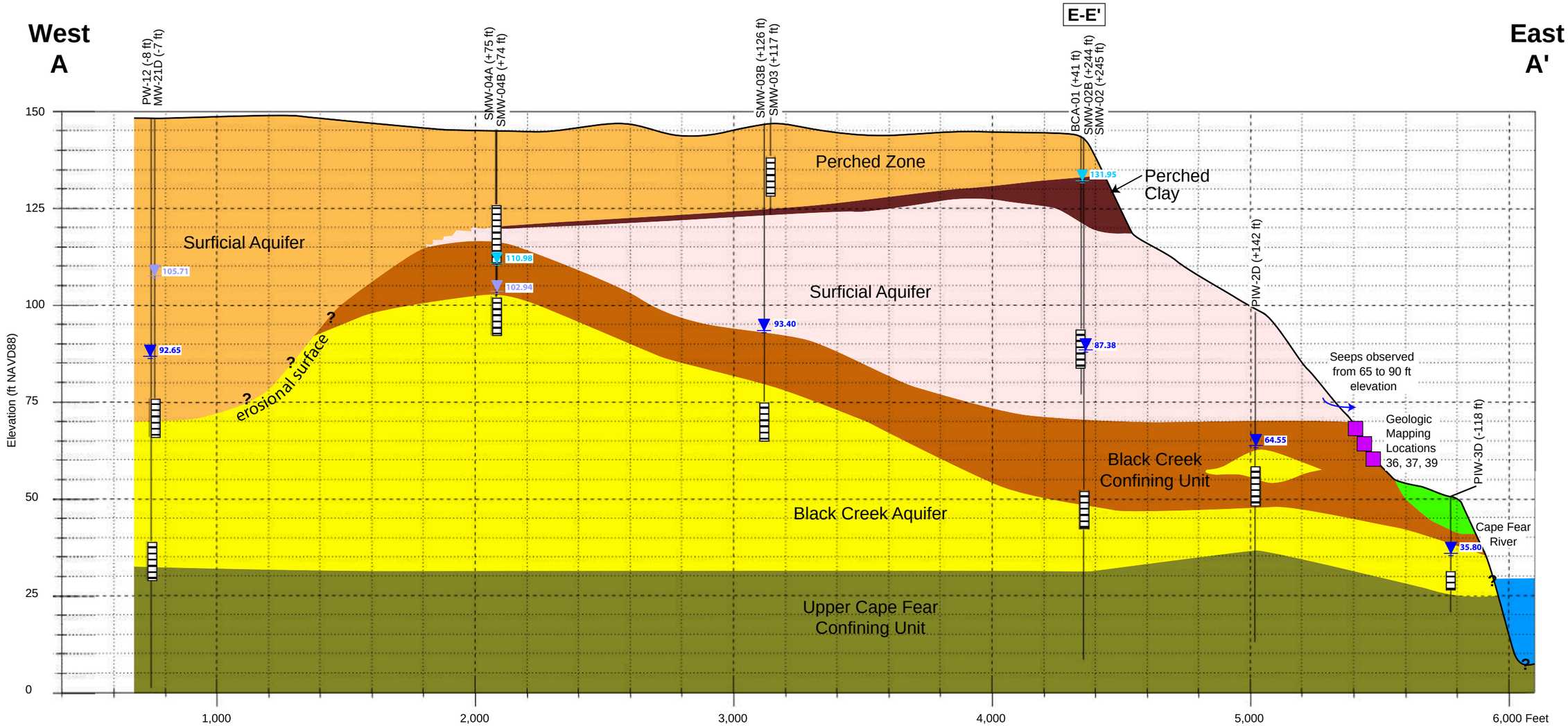
Figure **A10-1**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Onsite and Offsite Assessment Report\TR0795_OnsiteWellNetwork_withXSec.mxd; Tip: 10/31/2019

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



Legend

- Clay
- Silty or Sandy Clay with Organics
- Micaceous Clay
- Predominantly Fine to Medium-grained Sand
- Floodplain Deposits
- Fine to Medium-grained Sand with Variable Silt Content
- Fine to Medium Sand

MW-17D (100 ft) — Offset Distance +/- north/south of line

Location Name

Well Screen

110.98 — Perched Zone Groundwater Elevation

102.94 — Surficial Aquifer Groundwater Elevation

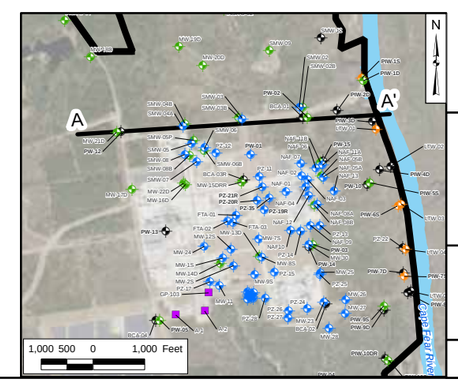
64.55 — Black Creek Aquifer Groundwater Elevation

Geological Mapping Location

E-E' — Corresponds to Section

Notes

ft NAVD88 - feet in 1988 North American Vertical Datum
Vertical Exaggeration = 15x
1. Lithology between borings is interpolated and estimated.
2. Groundwater elevations calculated from measured depth to water on 15 October 2019.
3. Cape Fear River water level indicated is median value for 15 October 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24).
4. Geological Mapping Locations from Figure 6-1. Approximate mapping elevations listed in Table 6-1.
5. Seeps observed reported in Seeps and Creeks Investigation Report (Geosyntec, 2019)



Cross-Section A-A'

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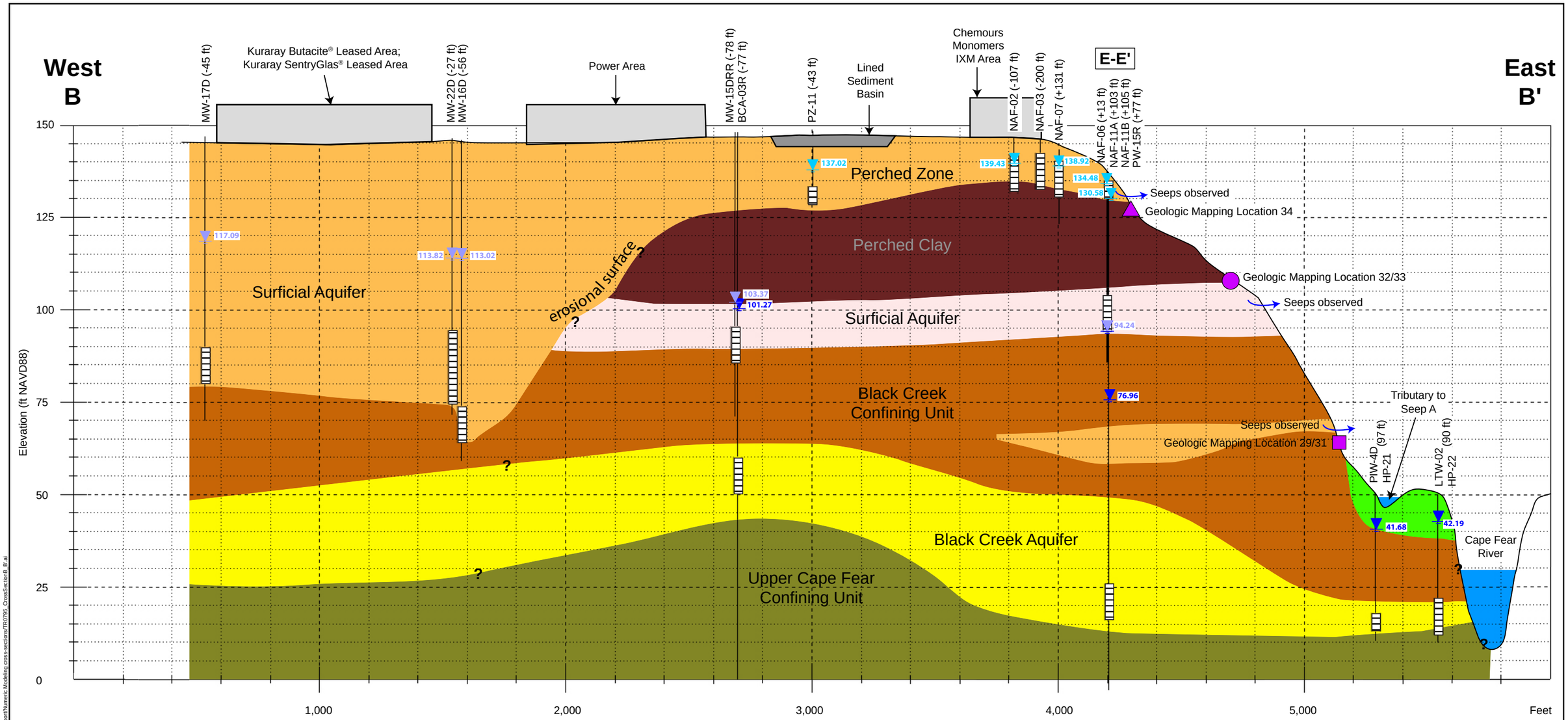
October 2019

Figure

A10-2

00 01 02 03 04 Data/PRJ/Projects/TR0795/Database and GIS/Illustrator/Onsite and Offsite Assessment Report/Numeric Modeling cross-sections/TR0795_CrossSectionA_A.ai



Legend

- Clay
- Silty or Sandy Clay with Organics
- Micaceous Clay
- Predominantly Fine to Medium-grained Sand
- Floodplain Deposits
- Fine to Medium-grained Sand with Variable Silt Content
- Fine to Medium Sand

MW-17D (100 ft) — Offset Distance +/- north/south of line

Location Name

Well Screen

110.98 — Perched Zone Groundwater Elevation

102.94 — Surficial Aquifer Groundwater Elevation

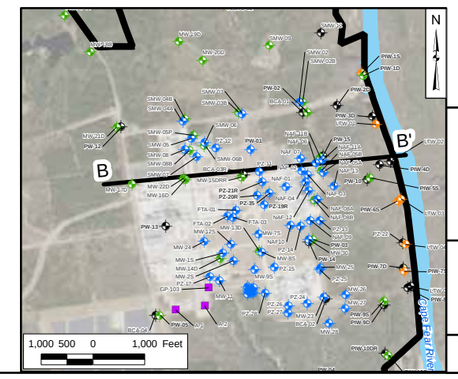
64.55 — Black Creek Aquifer Groundwater Elevation

Geological Mapping Location

E-E' — Corresponds to Section

Notes

ft NAVD88 - feet in 1988 North American Vertical Datum
Vertical Exaggeration = 15x
1. Lithology between borings is interpolated and estimated.
2. Groundwater elevations calculated from measured depth to water on 15 October 2019.
3. Cape Fear River water level indicated is median value for 15 October 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24).
4. Geological Mapping Locations from Figure 6-1. Approximate mapping elevations listed in Table 6-1.
5. Seeps observed reported in Seeps and Creeks Investigation Report (Geosyntec, 2019)



Cross-Section B-B'

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
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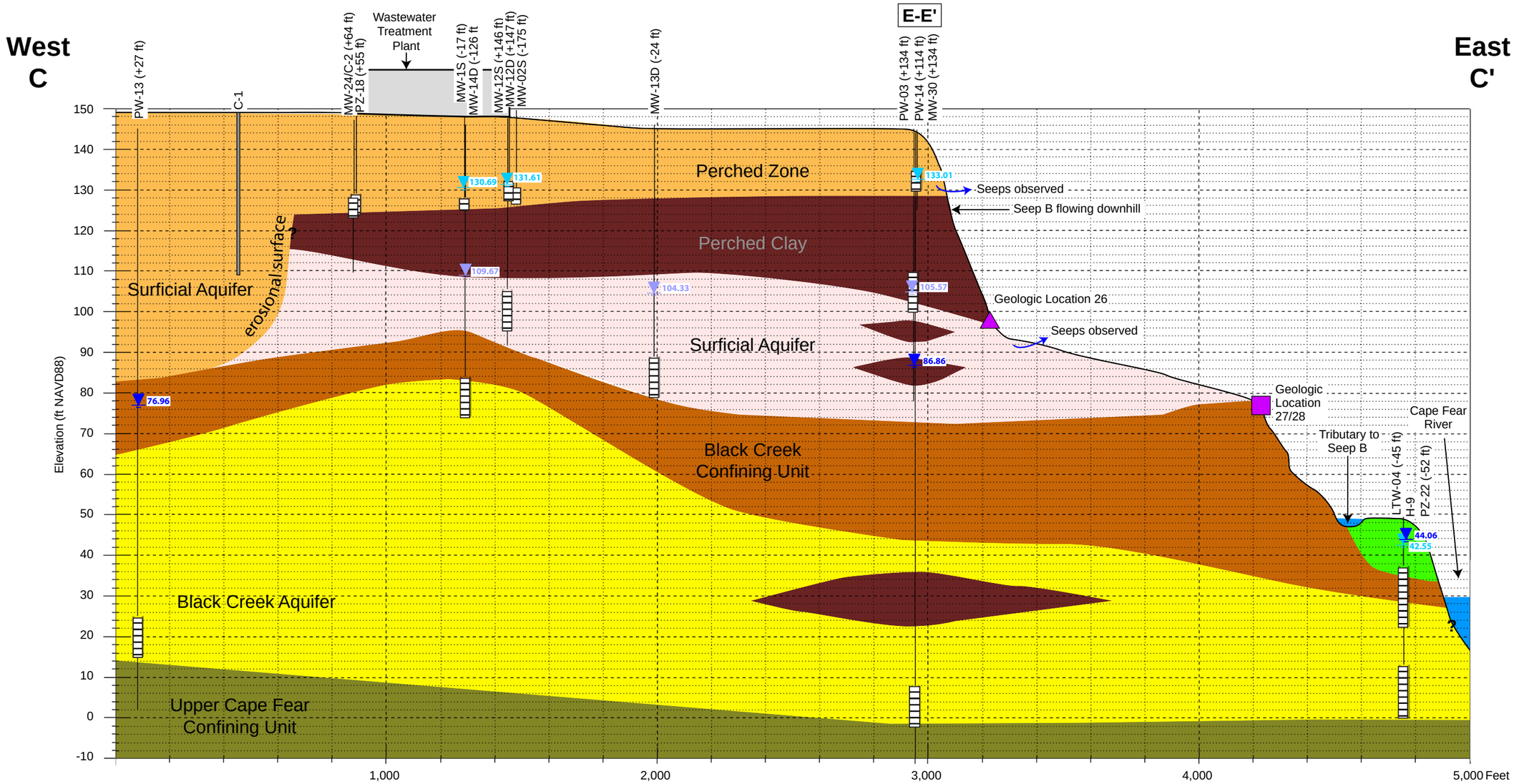
Raleigh

October 2019

Figure

A10-3

00 01 02 03 04 Data/PRJ/Projects/TR0795/Database and GIS/Illustrator/Onsite and Offsite Assessment Report/Numeric Modeling cross-sections/TR0795_CrossSectionB_B'.ai



Legend

- Clay
- Silty or Sandy Clay with Organics
- Micaceous Clay
- Predominantly Fine to Medium-grained Sand with some Clay
- Floodplain Deposits
- Fine to Medium-grained Sand with Variable Silt Content
- Fine to Medium Sand

MW-17D (100 ft) — Offset Distance +/- north/south of line

Location Name

Well Screen

CPT Boring

110.98 — Perched Zone Groundwater Elevation

102.94 — Surficial Aquifer Groundwater Elevation

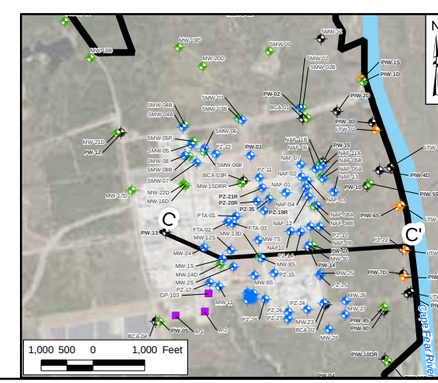
64.55 — Black Creek Aquifer Groundwater Elevation

Geological Mapping Location

E-E' — Corresponds to Section

Notes

ft NAVD88 - feet in 1988 North American Vertical Datum
Vertical Exaggeration = 15x
1. Lithology between borings is interpolated and estimated.
2. Groundwater elevations calculated from measured depth to water on 15 October 2019.
3. Cape Fear River water level indicated is median value for 15 October 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24).
4. Geological Mapping Locations from Figure 6-1. Approximate mapping elevations listed in Table 6-1.
5. Seeps observed reported in Seeps and Creeks Investigation Report (Geosyntec, 2019)



Cross-Section C-C'

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

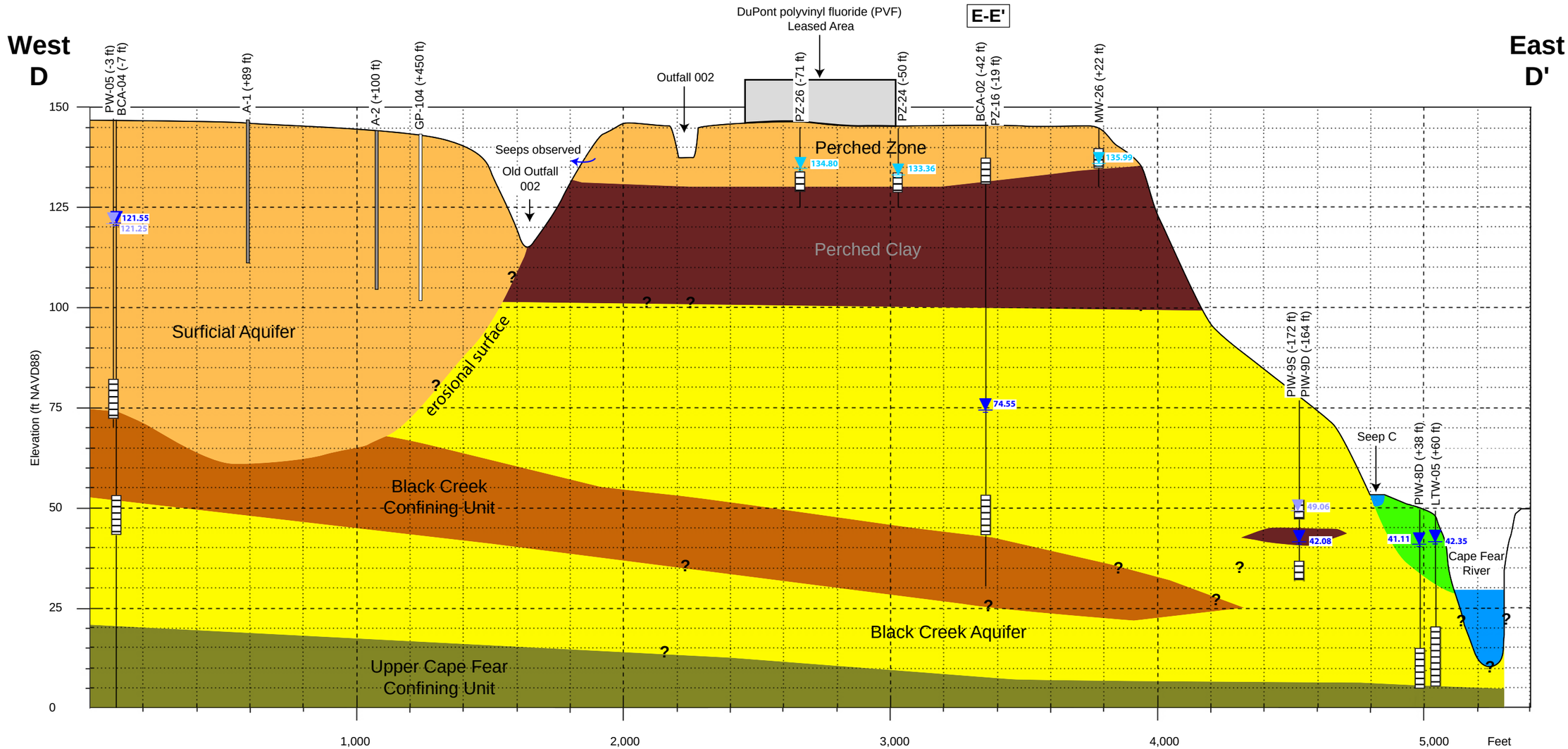
Raleigh

October 2019

Figure

A10-4

00 01 02 03 04 Data/PRJ/Projects/TR0795/Database and GIS/Illustrator/Onsite and Offsite Assessment Report/Numeric Modeling cross-sections/TR0795_CrossSectionC_C.ai



Legend

- Clay
- Silty or Sandy Clay with Organics
- Micaceous Clay
- Predominantly Fine to Medium-grained Sand with some Clay
- Floodplain Deposits
- Fine to Medium-grained Sand with Variable Silt Content
- Fine to Medium Sand

MW-17D (100 ft) — Offset Distance +/- north/south of line

Location Name

Well Screen

E-E' Corresponds to Section

110.98 Perched Zone Groundwater Elevation

102.94 Surficial Aquifer Groundwater Elevation

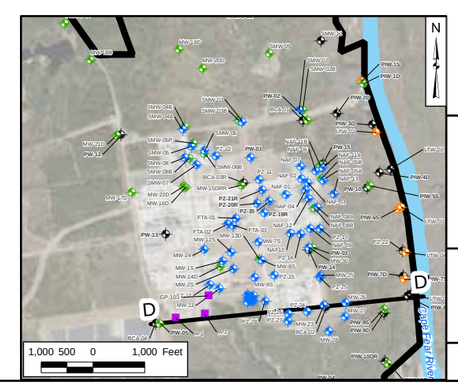
64.55 Black Creek Aquifer Groundwater Elevation

CPT Boring

Soil Boring

Notes

ft NAVD88 - feet in 1988 North American Vertical Datum
Vertical Exaggeration = 15x
1. Lithology between borings is interpolated and estimated.
2. Groundwater elevations calculated from measured depth to water on 15 October 2019.
3. Cape Fear River water level indicated is median value for 15 October 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24).
4. Geological Mapping Locations from Figure 6-1. Approximate mapping elevations listed in Table 6-1.
5. Seeps observed reported in Seeps and Creeks Investigation Report (Geosyntec, 2019)



Cross-Section D-D'

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Geosyntec consultants

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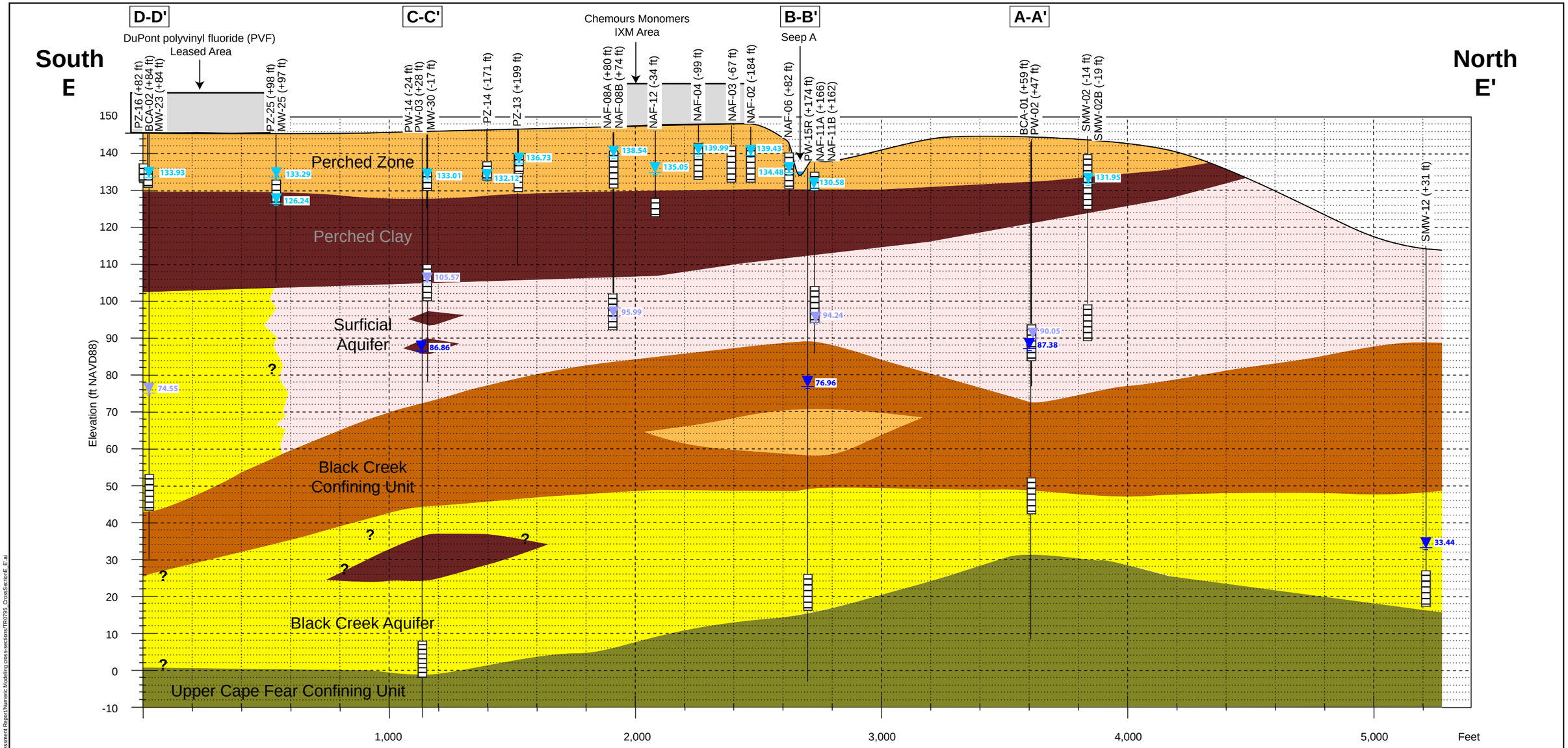
Raleigh

October 2019

Figure
A10-5

00 01 02 03 04 Data/PRJ/Projects/TR0795/Database and GIS/Illustrator/Onsite and Offsite Assessment Report/Numeric Modeling cross-sections/TR0795_CrossSectionD_D.ai



Legend

- Clay
- Silty or Sandy Clay with Organics
- Micaceous Clay
- Predominantly Fine to Medium-grained Sand with some Clay
- Floodplain Deposits
- Fine to Medium-grained Sand with Variable Silt Content
- Fine to Medium Sand

MW-17D (100 ft) — Offset Distance +/- east/west of line

Location Name

Well Screen

110.98 — Perched Zone Groundwater Elevation

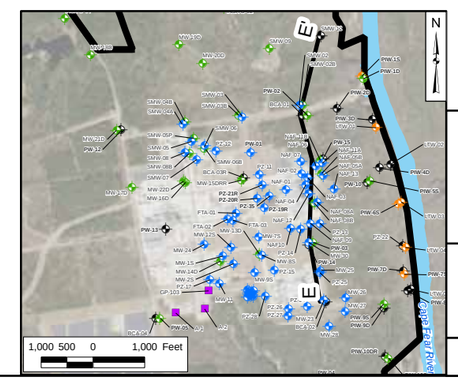
102.94 — Surficial Aquifer Groundwater Elevation

64.55 — Black Creek Aquifer Groundwater Elevation

A-A' — Corresponds to Section

Notes

ft NAVD88 - feet in 1988 North American Vertical Datum
Vertical Exaggeration = 15x
Seep A bottom is approximate
1. Lithology between borings is interpolated and estimated.
2. Groundwater elevations calculated from measured depth to water on 15 October 2019.
3. Cape Fear River water level indicated is median value for 15 October 2019 measured at the W.O. Huske Dam (USGS 2105500). Data obtained from National Water Information System (URL: https://waterdata.usgs.gov/nwis/inventory/?site_no=02105769, date accessed: 2019-09-24).
4. Geological Mapping Locations from Figure 6-1. Approximate mapping elevations listed in Table 6-1.
5. Seeps observed reported in Seeps and Creeks Investigation Report (Geosyntec, 2019)



Cross-Section E-E'

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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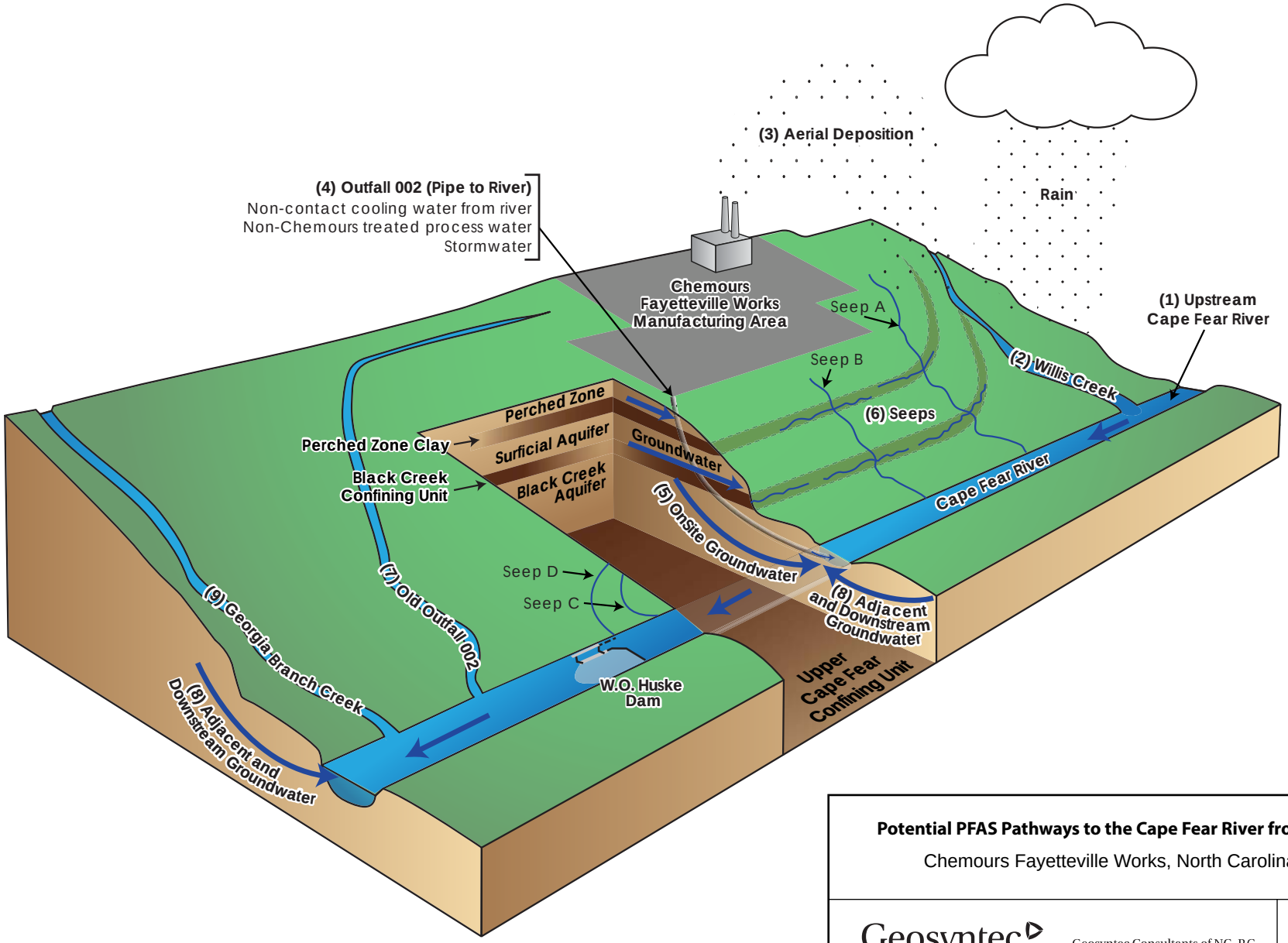
Raleigh | October 2019

Figure
A10-6

00 01 02 03 04 Data/PRJ/Projects/TR0795/Database and GIS/Illustrator/Onsite and Offsite Assessment Report/Numeric Modeling cross-sections/TR0795_CrossSectionE_E'.ai



Potential PFAS Pathways to the Cape Fear River from Site

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC

September 2019

Figure

A10-7

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 **GW Sampling 4Q19**

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

Sampling Dates **October 18, 22 – 25, and 28 – 31, 2019**
November 1, 4 – 8, 2019

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds incl 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:

  October 25, 29, and 31, 2019
  November 1, 8, and 12, 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:

- HFPO-DA results in some groundwater 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.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to a poor lab control or matrix spike recovery; and poor 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:** GW Sampling 4Q19 **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
GW4Q19-BLADEN-2S-102219	10/22/2019	320-55686-4	Hfpo Dimer Acid	0.0085	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-2S-102219	10/22/2019	320-55686-4	Hfpo Dimer Acid (trial)	0.0076	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-4S-102219	10/22/2019	320-55686-6	Hfpo Dimer Acid (trial)	0.0027	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-4S-102219	10/22/2019	320-55686-6	Hfpo Dimer Acid	0.0027	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-3S-102219	10/22/2019	320-55686-5	Hfpo Dimer Acid (trial)	0.017	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119-Dup	10/31/2019	320-55909-2	Hfpo Dimer Acid	0.0029	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119-Dup	10/31/2019	320-55909-2	Hfpo Dimer Acid (trial)	0.0033	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119	10/31/2019	320-55909-1	Hfpo Dimer Acid	0.0036	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119	10/31/2019	320-55909-1	Hfpo Dimer Acid (trial)	0.0023	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-3S-102219	10/22/2019	320-55686-5	Hfpo Dimer Acid	0.016	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-ROBESON-1D-103119	10/31/2019	320-55909-3	Hfpo Dimer Acid	0.0036	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-ROBESON-1D-103119	10/31/2019	320-55909-3	Hfpo Dimer Acid (trial)	0.0038	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-PIW-4D-103119	10/31/2019	320-55909-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119	10/31/2019	320-55909-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-05-103019	10/30/2019	320-55860-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-05-103019	10/30/2019	320-55860-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-06-102919	10/29/2019	320-55854-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-06-102919	10/29/2019	320-55854-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119-Dup	10/31/2019	320-55909-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-4D-103119-Dup	10/31/2019	320-55909-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-EQBLK-01-110119	11/01/2019	320-56112-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-EQBLK-01-110119	11/01/2019	320-56112-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-FBLK-01-102919	10/29/2019	320-55854-6	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-FBLK-01-102919	10/29/2019	320-55854-6	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-FBLK-01-110119	11/01/2019	320-56112-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-FBLK-01-110119	11/01/2019	320-56112-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-FBLK-01-110419	11/04/2019	320-56112-6	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-4S-102219	10/22/2019	320-55686-6	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-BLADEN-4S-102219	10/22/2019	320-55686-6	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1S-102419	10/24/2019	320-55761-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1S-102419	10/24/2019	320-55761-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1D-102419	10/24/2019	320-55761-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1D-102419	10/24/2019	320-55761-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-4D-102519	10/25/2019	320-55754-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-4D-102519	10/25/2019	320-55754-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-Bladen-2D-102919	10/29/2019	320-55854-5	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-Bladen-2D-102919	10/29/2019	320-55854-5	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **Validation Options:** LABSTATS

Validation Reason Associated LCS and/or LCSD 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
GW4Q19-CUMBERLAND-1D-102419	10/24/2019	320-55761-1	Byproduct 5	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1D-102419	10/24/2019	320-55761-1	Byproduct 5	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1D-102419-D	10/24/2019	320-55761-2	Byproduct 5	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-1D-102419-D	10/24/2019	320-55761-2	Byproduct 5	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-01-101819	10/18/2019	320-55686-1	Byproduct 5	0.70	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-01-101819	10/18/2019	320-55686-1	Byproduct 5	0.66	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	R-EVE	0.0076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	R-EVE	0.0073	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	Byproduct 4	0.030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	Byproduct 4	0.034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	R-EVE	0.065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	Byproduct 4	0.20	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	Byproduct 5	0.0036	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	Byproduct 5	0.0039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-BLADEN-1D-110719	11/07/2019	320-56173-3	PFMOAA	0.024	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-1D-110719	11/07/2019	320-56173-3	PFMOAA	0.027	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-2S-102219	10/22/2019	320-55686-4	PFMOAA	0.022	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-BLADEN-2S-102219	10/22/2019	320-55686-4	PFMOAA	0.019	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-10DR-103019	10/30/2019	320-55860-2	R-EVE	0.98	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-10DR-103019	10/30/2019	320-55860-2	R-EVE	0.84	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-2D-110119	11/01/2019	320-56112-3	R-EVE	0.040	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-2D-110119	11/01/2019	320-56112-3	R-EVE	0.040	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-3D-102819	10/28/2019	320-55757-6	R-EVE	0.22	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-3D-102819	10/28/2019	320-55757-6	R-EVE	0.25	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-8D-103019	10/30/2019	320-55860-9	Byproduct 4	3.3	UG/L	PQL		0.63	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-8D-103019	10/30/2019	320-55860-9	Byproduct 4	3.8	UG/L	PQL		0.63	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-9D-102319	10/23/2019	320-55683-3	Byproduct 5	1.9	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PIW-9D-102319	10/23/2019	320-55683-3	Byproduct 5	2.2	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	R-EVE	0.055	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	Byproduct 4	0.17	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	R-EVE	0.0095	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	R-EVE	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-11-102319	10/23/2019	320-55683-2	Byproduct 5	2.0	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-11-102319	10/23/2019	320-55683-2	Byproduct 5	2.3	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-14-102319	10/23/2019	320-55683-8	Byproduct 5	2.4	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-14-102319	10/23/2019	320-55683-8	Byproduct 5	2.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** GW Sampling 4Q19 **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
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PMPA	0.12	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PMPA	0.12	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PFO2HxA	0.078	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PFO2HxA	0.082	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PFMOAA	0.015	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-4S-102519	10/25/2019	320-55761-5	PFMOAA	0.014	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	PFMOAA	0.36	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-04-103019	10/30/2019	320-55860-4	PFMOAA	0.37	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	Hfpo Dimer Acid	0.79	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	PEPA	0.38	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	PEPA	0.39	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	PFMOAA	0.31	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-PW-07-110819	11/08/2019	320-56173-7	PFMOAA	0.31	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-3S-102219	10/22/2019	320-55686-5	PFMOAA	0.013	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
GW4Q19-CUMBERLAND-3S-102219	10/22/2019	320-55686-5	PFMOAA	0.013	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep