



## Addendum 1

### MCRWASA PFAS STUDY RFQ April 2024

5/15/2024

**TO ALL BIDDERS:** Included in this addendum are changes and or clarifications to the bid documents for this project. Below are all questions provided by potential bidders followed by answers to each specific question.

1. Can MCRWASA share additional information on the levels of PFAS that have been sampled to date? **MCRWASA has not collected any in house special samples. The data from the NCPFAST Network is attached.**
2. Does the Hourly Rate Schedule count toward the 20-page count or is it considered part of the appendices? **Yes Hourly Rate Schedule counts toward the 20-page limit.**
3. the RFQ was posted to GovWin on Monday 5/6, the same day we became aware of the opportunity, and we missed the chance to submit questions within the timeframe defined in the RFQ. Would MCRWASA allow an extension on the questions and answer period? **Due to a delay in receiving questions, Q&A period extended to 5/14/2024 4pm.**
- 4.

# NC PFAST Quantitative Screening Results for Raw Drinking Water



## MARTIN CO REGIONAL WASA (NC6059015), 2019-08-06

***Disclaimer: The PFAS measurements reported here represent initial laboratory findings that have not been subjected to full validation and quality assurance/quality control procedures and should be considered preliminary.***

As part of the North Carolina Per and Polyfluoroalkyl Substances Testing (PFAST) Network statewide sampling effort ([ncpfastnetwork.com](https://ncpfastnetwork.com) (<https://ncpfastnetwork.com>)), a raw water sample collected from MARTIN CO REGIONAL WASA (NC6059015) on 2019-08-06 by the Ferguson Lab was analyzed for 47 PFAS chemicals by liquid chromatography-tandem mass spectrometry (LC-MS/MS). Concentrations of individual PFAS are reported in units of parts-per-trillion (ppt, i.e., nanogram of chemical per liter water).

PFAS compounds are not currently regulated as drinking water contaminants by the United States Environmental Protection Agency (US EPA) or the North Carolina Department of Environmental Quality (NC DEQ) and thus the measurements reported here are not intended to be used in enforcement actions. The US EPA has established a lifetime health advisory level (HAL) of 70 ppt for combined perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in drinking water (<https://tinyurl.com/grwoj94>). In addition, the NC DHHS has established a provisional health goal based on risk assessment for GenX in drinking water of 140 ppt (<https://tinyurl.com/y3azs7j4>). These advisory levels can serve as reference values when evaluating PFAS concentrations reported below for raw drinking water.

Reporting Limit (RL): This is the lowest concentration that can be confidently quantified in water samples for an individual PFAS chemical. This level is a function of instrument sensitivity, reproducibility, and precision. The RL typically (but not always) represents the lowest concentration point on the calibration curve, and it is always higher (often much higher) than the method detection limit (MDL) for a given PFAS analyte.

## Sum of PFOS and PFOA

The sum of PFOA and PFOS was **9.8** ppt. This represents 14% of the EPA HAL of 70 ppt for PFOA + PFOS.

## GenX

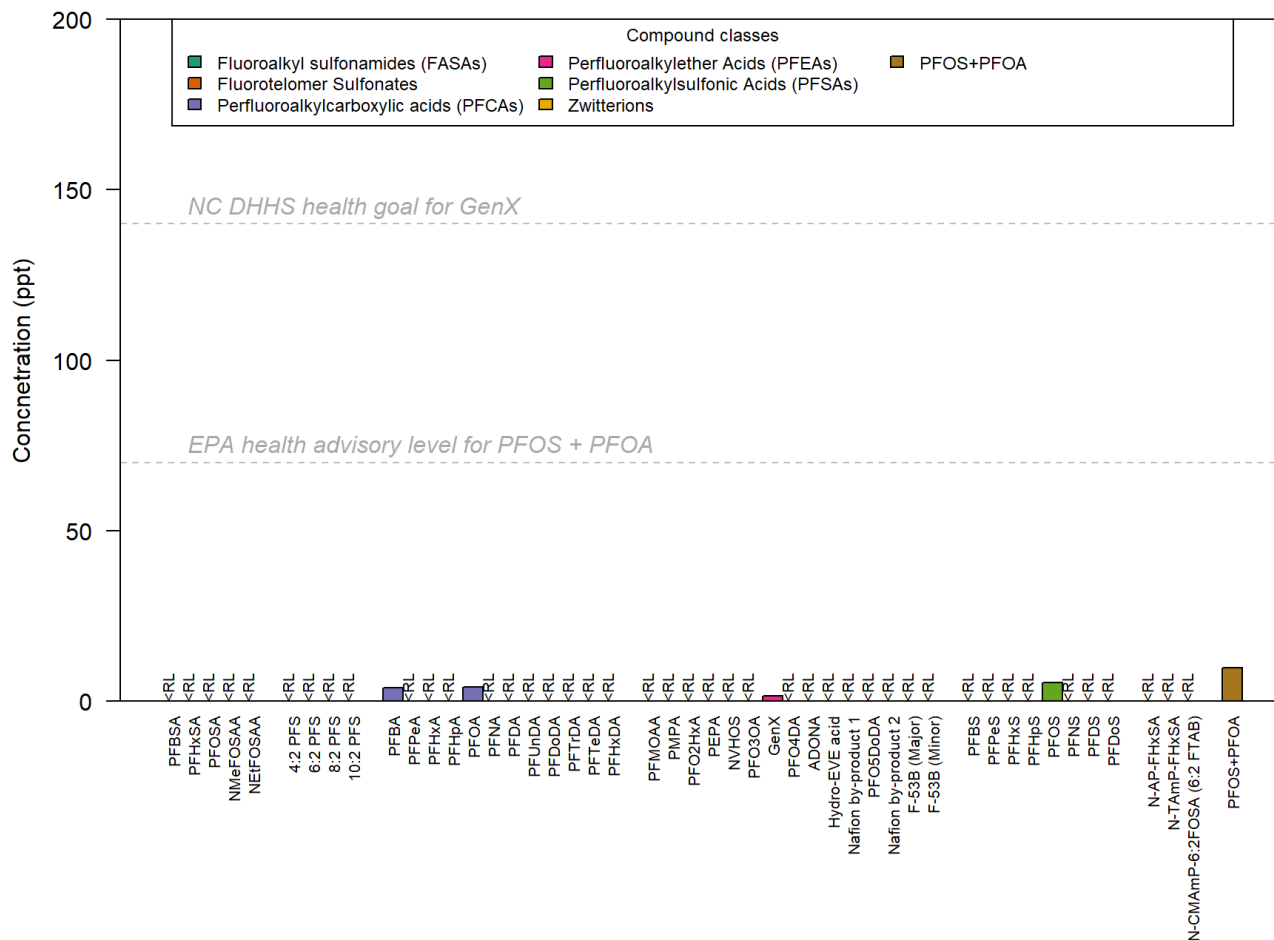
The concentration of GenX was **1.6** ppt. This represents 1.1% of the NC DHHS health goal for GenX.

## Total PFAS

The total PFAS concentration was **15.5** ppt.

## Summary of findings

**Figure 1: Concentrations of individual PFAS compounds.**



**Table 1 Concentrations of PFAS compounds detected in parts-per-trillion (ppt).** Gray values indicate compounds below the reporting limit (RL). Bold rows indicate occurrence in excess of the EPA Health Advisory Limit (HAL) for PFOS + PFOA of 70 ppt.

Analyte Name	Abbreviation	CAS Registry Number	Concentration (ppt)	RL (ppt)
<b>Fluoroalkyl sulfonamides (FASAs)</b>				
Perfluorobutane sulfonamide	PFBSA	30334-69-1	<RL	1
Perfluorohexane sulfonamide	PFHxSA	41997-13-1	<RL	1
Perfluorooctane sulfonamide	PFOSA	754-91-6	<RL	1
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9	<RL	1
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6	<RL	5
<b>Fluorotelomer Sulfonates</b>				

Analyte Name	Abbreviation	CAS Registry Number	Concentration (ppt)	RL (ppt)
4:2 Fluorotelomer sulfonic acid	4:2 PFS	757124-72-4	<RL	1
6:2 Fluorotelomer sulfonic acid	6:2 PFS	27619-97-2	<RL	1
8:2 Fluorotelomer sulfonic acid	8:2 PFS	39108-34-4	<RL	1
10:2 Fluorotelomer sulfonic acid	10:2 PFS	120226-60-0	<RL	1
<b>Perfluoroalkylcarboxylic acids (PFCAs)</b>				
Perfluorobutanoic acid	PFBA	375-22-4	4.1	1
Perfluoropentanoic acid	PFPeA	2706-90-3	<RL	2
Perfluorohexanoic acid	PFHxA	307-24-4	<RL	2
Perfluoroheptanoic acid	PFHpA	375-85-9	<RL	5
Perfluorooctanoic acid	PFOA	335-67-1	4.3	1
Perfluorononanoic acid	PFNA	375-95-1	<RL	1
Perfluorodecanoic acid	PFDA	335-76-2	<RL	1
Perfluoroundecanoic acid	PFUnDA	2058-94-8	<RL	1
Perfluorododecanoic acid	PFDoDA	307-55-1	<RL	1
Perfluorotridecanoic acid	PFTTrDA	72629-94-8	<RL	2
Perfluorotetradecanoic acid	PFTeDA	376-06-7	<RL	1
Perfluorohexadecanoic acid	PFHxDA	67905-19-5	<RL	10
<b>Perfluoroalkylether Acids (PFEAs)</b>				
Perfluoro-2-methoxyacetic acid	PFMOAA	674-13-5	<RL	5
Perfluoro-2-methoxypropanoic acid	PMPA	377-73-1	<RL	1

Analyte Name	Abbreviation	CAS Registry Number	Concentration (ppt)	RL (ppt)
Perfluoro(3,5-dioxahexanoic) acid	PFO2HxA	39492-88-1	<RL	1
Perfluoro-2-ethoxypropanoic acid	PEPA	267239-61-2	<RL	1
1,1,2,2-tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid	NVHOS	N/A	<RL	1
Perfluoro(3,5,7-trioxaoctanoic) acid	PFO3OA	39492-89-2	<RL	1
Perfluoro-2-propoxypropanoic acid	GenX	13252-13-6	1.6	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid	PFO4DA	39492-90-5	<RL	1
Dodecafluoro-3H-4,8-dioxanonanoic acid	ADONA	958445-44-8	<RL	1
Propanoic acid, 3-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-	Hydro-EVE acid	773804-62-9	<RL	1
Ethanesulfonic acid, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-	Nafion by-product 1	29311-67-9	<RL	1
Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid	PFO5DoDA	39492-91-6	<RL	2
Ethanesulfonic acid, 2-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-	Nafion by-product 2	749836-20-2	<RL	1
9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	F-53B (Major)	73606-19-6	<RL	1
11-chloroeicosafuoro-3-oxanonane-1-sulfonate	F-53B (Minor)	83329-89-9	<RL	1
<b>Perfluoroalkylsulfonic Acids (PFSA)</b>				
Perfluorobutanesulfonic acid	PFBS	375-73-5	<RL	1

<b>Analyte Name</b>	<b>Abbreviation</b>	<b>CAS Registry Number</b>	<b>Concentration (ppt)</b>	<b>RL (ppt)</b>
Perfluoropentanesulfonic acid	PFPeS	2706-91-4	<RL	1
Perfluorohexanesulfonic acid	PFHxS	355-46-4	<RL	2
Perfluoroheptanesulfonic acid	PFHpS	375-92-8	<RL	1
Perfluorooctanesulfonic acid	PFOS	1763-23-1	5.5	1
Perfluorononanesulfonic acid	PFNS	68259-12-1	<RL	1
Perfluorodecanesulfonic acid	PFDS	2806-15-7	<RL	10
Perfluorododecanesulfonic acid	PFDoS	79780-39-5	<RL	10
<b>Zwitterions</b>				
N-(3-dimethylaminopropan-1-yl)perfluoro-1-hexane-sulfonamide	N-AP-FHxSA	50598-28-2	<RL	5
N-[3-(perfluoro-1-hexanesulfonamido)propan-1-yl]-N,N,N-trimethylammonium	N-TAmP-FHxSA	38850-51-0	<RL	1
N-(carboxymethyl)-N,N-dimethyl-N-[3-(1H,1H,2H,2H-perfluoro-1-octanesulfonamido)propan-1-yl]ammonium	N-CMAmP-6:2FOSA (6:2 FTAB)	34455-29-3	<RL	2

**Major Parameters Observed by NCDEQ and EPA**

Parameter	Current MCL (ng/L)	Date of Collection	Location	Test Results (ng/L)	Notes	Hazard Index (<1)	In Compliance?
GenX	10 (EPA - Final) 1.0 Unitless (Hazard Index)	9/27/2022	INTAKE	0.948		0.203	Yes
		9/27/2022	EFFLUENT	1.04		0.185	Yes
		10/19/2022	INTAKE	1.25		0.216	Yes
		10/19/2022	EFFLUENT	1.35		0.234	Yes
		11/14/2022	INTAKE	1.35		0.228	Yes
		11/14/2022	EFFLUENT	1.28		0.216	Yes
PFOA	4 (Interim)	9/27/2022	INTAKE	2.25			Yes
		9/27/2022	EFFLUENT	2.6			Yes
		10/19/2022	INTAKE	2.85			Yes
		10/19/2022	EFFLUENT	3			Yes
		11/14/2022	INTAKE	3.16			Yes
		11/14/2022	EFFLUENT	3.09			Yes
PFOS	4 (Interim)	9/27/2022	INTAKE	4.86			No
		9/27/2022	EFFLUENT	3.86			Yes
		10/19/2022	INTAKE	4.94			No
		10/19/2022	EFFLUENT	3.07			Yes
		11/14/2022	INTAKE	5.13			No
		11/14/2022	EFFLUENT	4.21			No
PFBS	2000 (EPA-Final) 1.0 Unitless (Hazard Index)	9/27/2022	INTAKE	0.808	J	0.203	Yes
		9/27/2022	EFFLUENT	0.91	J	0.185	Yes
		10/19/2022	INTAKE	0.865	J	0.216	Yes
		10/19/2022	EFFLUENT	1.01	J	0.234	Yes
		11/14/2022	INTAKE	0.981	J	0.228	Yes
		11/14/2022	EFFLUENT	1.15	J	0.216	Yes
PFHxS	1.0 Unitless (Hazard Index)	9/27/2022	INTAKE	0.968	J	0.203	Yes
		9/27/2022	EFFLUENT	0.722	J	0.185	Yes
		10/19/2022	INTAKE	0.812	J	0.216	Yes
		10/19/2022	EFFLUENT	0.887	J	0.234	Yes
		11/14/2022	INTAKE	0.832	J	0.228	Yes
		11/14/2022	EFFLUENT	0.787	J	0.216	Yes
PFNA	1.0 Unitless (Hazard Index)	9/27/2022	INTAKE	ND		0.203	Yes
		9/27/2022	EFFLUENT	ND		0.185	Yes
		10/19/2022	INTAKE	ND		0.216	Yes
		10/19/2022	EFFLUENT	ND		0.234	Yes
		11/14/2022	INTAKE	ND		0.228	Yes
		11/14/2022	EFFLUENT	ND		0.216	Yes

**Hazard Index = (GenX Conc/10ppt)+(PFBS conc/2000ppt)+(PFNA conc/10ppt)+ (PFHxS conc/9.0ppt)**  
 PFNA was not Detected in this sampling and was omitted from the Hazard Index calculation

**Data Review Qualifier Definitions**

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals--Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
E	Organics--Concentration of the target analyte exceeds the instrument calibration range
E	Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
ND	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
P	Sample results are rejected
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.

377-73-1	13140-29-9	674-13-5	39492-88-1	39492-89-2	39492-90-5	39492-91-6	801212-59-9	29311-67-9	749836-20-2	2416366-18-0	2416366-19-1	2416366-21-5	151772-58-6	69087-46-3	773804-62-9	2416366-22-6	801209-99-4	113507-82-7	422-64-0	375-22-4	2706-90-3	307-24-4	375-85-9	863090-89-5	375-95-1
PFMOPrA	PMPA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFO5DoA	PFECA-G	PFESA BP1	PFESA BP2	PFESA BP4	PFESA BP5	PFESA BP6	PFECA-B	EVE	Hydro-EVE	R-EVE	NVHOS	PES	PFPrA	PFBA	PFPeA	PFHxA	PFHpA	PFMOBA	PFNA
Perfluoro-3-methoxypropanoic acid ng/L	Perfluoro-2-(perfluoromethoxy)propanoic acid ng/L	Perfluoro-2-methoxyacetic acid ng/L	Perfluoro-3,5-dioxahexanoic acid ng/L	Perfluoro-3,5,7-trioxaoctanoic acid ng/L	Perfluoro-3,5,7,9-butaodecanoic acid ng/L	Perfluoro-3,5,7,9,11-pentaodecanoic acid ng/L	Perfluoro-4-isopropoxybutanoic acid ng/L	Perfluoro-3,6-dioxo-4-methyl-7-octene-1-sulfonic acid ng/L	Perfluoro-4-(2-sulfoethoxy)pentanoic acid ng/L	Perfluoro-2-sulfoethoxypropanoic acid ng/L	Fluoro[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propanoic acid ng/L	1,1,2,2-tetrafluoro-2-[[1,1,1,2,3,3,3,4,4-octafluorobutan-2-yl)oxy]ethane-1-sulfonic acid ng/L	Perfluoro-3,6-dioxoheptanoic acid ng/L	Perfluoro-3-[[1-(ethenyl)oxy]propanoic acid ng/L	2,2,3,3-Tetrafluoro-3-[[1,1,1,2,3,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propanoic acid ng/L	R-EVE ng/L	1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethanesulfonic acid ng/L	Perfluoro(2-ethoxyethane)sulfonic acid ng/L	Perfluoropropanoic acid ng/L	Perfluorobutanoic acid ng/L	Perfluoropentanoic acid ng/L	Perfluorohexanoic acid ng/L	Perfluorohexanoic acid ng/L	Perfluoro(4-methoxybutanoic acid ng/L	Perfluoronanoic acid ng/L
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.31 JX	1.66 J	1.74 J	1.49 J	1.46 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.58	0.798 J	1.31 J	1.63 J	1.10 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.91 JX	1.67 J	1.26 J	1.25 J	1.14 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.4	1.00 J	1.52 J	1.73 J	1.64 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.98 JX	2.25	1.84	1.71 J	1.19 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.7	2.35	1.53 J	1.94	1.23 J	ND	ND
																									1 (unitless) Hazard Index



										CAS Num	13252-13-6	335-67-1	1763-23-1
										CHEMICAL_NAME	Perfluoro-2-methyl-3-oxahexanoic acid	Perfluorooctanoic acid	Perfluorooctanesulfonic acid
										Unit	ng/L	ng/L	ng/L
System Name	County	NCID	SYS_SAMPLE_CODE	SYS_LOC_CODE	LOC_TYPE	LATITUDE	LONGITUDE	Sample Date	MATRIX_CODE	LAB_SDG	GenX	PFOA	PFOS
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20220927-RW-PFAS	NC6059015-S01	INTAKE	35.862089	-77.04451	9/27/2022	WS	594716	0.948	2.25	4.86
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20220927-DW-PFAS	NC6059015-S01	EFFLUENT	35.862089	-77.04451	9/27/2022	WP	594716	1.04	2.6	3.86
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20221019-RW-PFAS	NC6059015-S01	INTAKE	35.862089	-77.04451	10/19/2022	WS	597514	1.25	2.85	4.94
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20221019-DW-PFAS	NC6059015-S01	EFFLUENT	35.862089	-77.04451	10/19/2022	WP	597514	1.35	3.00	3.07
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20221114-RW-PFAS	NC6059015-S01	INTAKE	35.862089	-77.04451	11/14/2022	WS	600788	1.35	3.16	5.13
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20221114-DW-PFAS	NC6059015-S01	EFFLUENT	35.862089	-77.04451	11/14/2022	WP	600788	1.28	3.09	4.21
										Current MCL's	1 (unitless) Hazard Index	4 ng/L	4 ng/L
											10 ng/L Final		

377-73-1	13140-29-9	674-13-5	39492-88-1	39492-89-2	39492-90-5	39492-91-6	801212-59-9	29311-67-9	749836-20-2	2416366-18-0	2416366-19-1	2416366-21-5	151772-58-6	69087-46-3	773804-62-9	2416366-22-6	801209-99-4	113507-82-7	422-64-0	375-22-4	2706-90-3	307-24-4	375-85-9	863090-89-5	375-95-1
PFMOPrA	PMPA	PFMOAA	PFO2HxA	PFO3OA	PFO4DA	PFO5DoA	PFECA-G	PFESA BP1	PFESA BP2	PFESA BP4	PFESA BP5	PFESA BP6	PFECA-B	EVE	Hydro-EVE	R-EVE	NVHOS	PES	PFPrA	PFBA	PFPeA	PFHxA	PFHpA	PFMOBA	PFNA
Perfluoro-3-methoxypropanoic acid ng/L	Perfluoro-2-(perfluoromethoxy)propanoic acid ng/L	Perfluoro-2-methoxyacetic acid ng/L	Perfluoro-3,5-dioxahexanoic acid ng/L	Perfluoro-3,5,7-trioxaoctanoic acid ng/L	Perfluoro-3,5,7,9-butaodecanoic acid ng/L	Perfluoro-3,5,7,9,11-pentaodecanoic acid ng/L	Perfluoro-4-isopropoxybutanoic acid ng/L	Perfluoro-3,6-dioxo-4-methyl-7-octene-1-sulfonic acid ng/L	Perfluoro-4-(2-sulfoethoxy)pentanoic acid ng/L	Perfluoro-2-sulfoethoxypropanoic acid ng/L	Perfluoro-2-sulfoethoxypropanoic acid ng/L	1,1,2,2-tetrafluoro-2-[[perfluoro-3-(1,1,2,2,3,3,4,4-octafluorobutan-2-yl)oxy]ethane-1-sulfonic acid ng/L	Perfluoro-3,6-dioxoheptanoic acid ng/L	Perfluoro-3-[[1-(ethenyl)oxy]propanoic acid ng/L	2,2,3,3-Tetrafluoro-3-[[1,1,1,2,3,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propanoic acid ng/L	R-EVE ng/L	1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethanesulfonic acid ng/L	Perfluoro(2-ethoxyethane)sulfonic acid ng/L	Perfluoropropanoic acid ng/L	Perfluorobutanoic acid ng/L	Perfluoropentanoic acid ng/L	Perfluorohexanoic acid ng/L	Perfluorohexanoic acid ng/L	Perfluoro(4-methoxybutanoic acid ng/L	Perfluoronanoic acid ng/L
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.31 JX	1.66 J	1.74 J	1.49 J	1.46 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.58	0.798 J	1.31 J	1.63 J	1.10 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.91 JX	1.67 J	1.26 J	1.25 J	1.14 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.4	1.00 J	1.52 J	1.73 J	1.64 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.98 JX	2.25	1.84	1.71 J	1.19 J	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.7	2.35	1.53 J	1.94	1.23 J	ND	ND
																									1 (unitless) Hazard Index



In this tab:										CAS Num	123-91-1
Values with < and U qualifiers converted to 'ND'										CHEMICAL_NAME	
										Analyte	
										Unit	ug/l
System Name	County	NCID	SYS SAMPLE CODE	SYS LOC CODE	LOC TYPE	LATITUDE	LONGITUDE	Sample Date	MATRIX CODE	LAB SDG	1,4-Dioxane (ug/L)
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20220927-RW-14D	NC6059015-S01	INTAKE	35.862089	-77.04451	9/27/2022	WS	594716	ND
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20220927-DW-14D	NC6059015-S01	EFFLUENT	35.862089	-77.04451	9/27/2022	WP	594716	ND
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20221019-RW-14D	NC6059015-S01	INTAKE	35.862089	-77.04451	10/19/2022	WS	597514	ND
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20221019-DW-14D	NC6059015-S01	EFFLUENT	35.862089	-77.04451	10/19/2022	WP	597514	ND
Martin Co Regional WASA	Martin	NC6059015	6059015-S01-20221121-RW-14D	NC6059015-S01	INTAKE	35.862089	-77.04451	11/21/2022	WS	601614	ND
Martin Co Regional WASA	Martin	NC6059015	6059015-P01-20221121-DW-14D	NC6059015-S01	EFFLUENT	35.862089	-77.04451	11/21/2022	WP	601614	ND