

PFAS Sample Results from the Costner Drive Entry Point									
Warrington Entry Point 101 - Wells 1, 2 & 6	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	June 11, 2020	July 9, 2020	July 21, 2020	Aug 6, 2020	Aug 18, 2020	Sept 1, 2020	Sept 15, 2020	Sept 29, 2020	Oct 22, 2020
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Note: ND = Non-Detect, <2.0 ppt**

Between 2014 and 2015, the Warrington wells were taken out of service from the distribution system due to various per- and polyfluoroalkyl substances (PFAS) contaminating the groundwater. Warrington now has a large filter building at each site which contains two granular activated carbon (GAC) tanks that filter PFAS out of the groundwater. For the sake of transparency with our residents, you can find the PFAS sample results posted here. NWWA will continuously sample the water for PFAS to maintain the integrity of the drinking water entering the Warrington distribution system. If you have any questions or concerns, call Vanessa Heindel at 267-482-6957 or email [vheindel@nwwater.com](mailto:vheindel@nwwater.com).

PFAS Sample Results from the Costner Drive Entry Point									
Warrington Entry Point 101 - Wells 1, 2 & 6	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Nov 17, 2020	Dec 21, 2020	Jan 12, 2021	Feb 8, 2021	Mar 9, 2021	Apr 15, 2021	May 11, 2021	Jun 8, 2021	Aug 10, 2021
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Note: ND = Non-Detect, <2.0 ppt**

PFAS Sample Results from the Costner Drive Entry Point									
Warrington Entry Point 101 - Wells 1, 2 & 6	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Nov 16, 2021	Jan 11, 2022	May 10, 2022	Aug 10, 2022	Nov 10, 2022	Feb 9, 2023	May 11, 2023	Aug 10, 2023	
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ng/L)	Result (ng/L)	Result (ppt)	Result (ppt)	Result (ppt)	
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorobutanesulfonic acid (PFBS)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorotetradecanoic acid (PFTeDA)	ND	ND	ND	ND	ND	ND	ND	ND	

**Note: ND = Non-Detect, <2.0 ppt**



Well #1 - Raw	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Nov 16, 2021	Jan 11, 2022	May 10, 2022	Aug 10, 2022	Nov 10, 2022	Feb 9, 2023	May 11, 2023	Aug 10, 2023
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanesulfonic acid (PFOS)	13	13	13.0	29	23	14	22	16
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	5.1	4.7	4.7	6.0	4.8	4.9	6.1	5.8
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	12	11	11.0	21	17	13	18	13
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	6.9	6.2	6.3	9.2	7.3	6.2	7.6	6.2
Perfluorobutanesulfonic acid (PFBS)	4.5	4.0	3.7	5.1	4.7	4.6	5.6	5.6
Perfluoroheptanoic acid (PFHpA)	2.36	3.2	3.4	5.1	4.1	3.8	4.9	4.1
Perfluorononanoic acid (PFNA)	ND	ND	ND	2.1	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA) §	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND



Well #2 - Raw	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Nov 16, 2021	Jan 11, 2022	May 10, 2022	Aug 10, 2022	Nov 10, 2022	Feb 9, 2023	May 11, 2023	Aug 10, 2023
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanesulfonic acid (PFOS)	1100	970	780.0	1100	870	980	1000	1000
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	77	72	65.0	90	76	72	85	83
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	170	150	140.0	200	160	160	190	160
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	340	310	240.0	320	270	290	310	320
Perfluorobutanesulfonic acid (PFBS)	55	59	43.0	57	50	48	56	52
Perfluoroheptanoic acid (PFHpA)	30	26	24.0	32	26	27	30	29
Perfluorononanoic acid (PFNA)	3.5	3.2	3.0	3.8	3.2	3.3	3.5	3.5
Perfluorotetradecanoic acid (PFTeDA) §	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND





Well #6 - Raw	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Nov 16, 2021	Jan 11, 2022	May 10, 2022	Aug 10, 2022	Nov 10, 2022	Feb 9, 2023	May 11, 2023	Aug 10, 2023
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanesulfonic acid (PFOS)	40	40	35.0	39	33	35	37	30
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	11	12	11.0	13	11	10	12	12
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	21	21	19.0	25	19	20	22	19
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	19	19	16.0	15	14	15	16	12
Perfluorobutanesulfonic acid (PFBS)	13	13	11.0	15	13	12	13	13
Perfluoroheptanoic acid (PFHpA)	7.4	7.7	6.8	9.1	6.9	7.1	7.5	7.9
Perfluorononanoic acid (PFNA)	2.0	2.1	1.9	2.5	ND	ND	2.1	2.1
Perfluorotetradecanoic acid (PFTeDA) §	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND	ND



Warrington Midpoint for EP 101	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
	Jan 11, 2022	May 10, 2022	Aug 10, 2022	Nov 10, 2022	Feb 9, 2023	May 11, 2023	Aug 10, 2023
Contaminant	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)	Result (ppt)
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA) §	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ND	ND	ND	ND	ND	ND	ND