Location_Code	Field_ID	Sampled_Date_Time	Sample_Type	Lab_Report_Number	pH (Lab)	Total Dissolved Solids	Alkalinity (Carbonate as CaCO3)	Alkalinity (Bicarbonate as CaCO3)	Alkalinity (Hydroxide as CaCO3)	Alkalinity (total as CaCO3)	Calcium	Magnesium	Potassium	Sodium	Chloride	Sulfate	Ammonia as N	Nitrate (as N)	Chromium (III+VI)	Chromium (hexavalent)	Chromium (Trivalent)	Zinc (Filtered)
					Inorganics		**Acidity & Alkalinity**				**Major Ions**						**Nutrients**		**Metals**			
					pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					0.1	10	10	20	20	20	0.5	0.5	0.5	0.5	1	2	0.01	0	0.001	0.005	0.01	0.01
Environmental Trigger Value (GHD RAP, 2011)																	0.9					0.4
ANZECC 2000 - Lowland Rivers (NSW coastal rivers)					6.5-9																	
ANZG (2018) - FW - 95% (updated 26 July 2021)																	0.9[#2]	2.4[#3]	0.001[#4]	0.001		0.008
PFAS NEMP 2.0 2020 Freshwater - 95% - slightly to moderately disturbed systems																						
SW01	OA01	7/02/2022	Field_D	861234	7.5	120	<10	46	<20	46	18	3.3	2.4	23	22	11	0.07	-	0.058	0.023	-	0.3
SW01	SW01	7/02/2022	Normal	861234	7.7	180	<10	40	<20	40	19	3	2.3	24	21	12	0.04	-	0.056	0.038	-	0.34
SW01	OA01	23/08/2022	Field_D	917575	8.1	88	<10	3000	-	-	-	-	-	-	20	9.8	0.41	0.84	0.14	0.031	0.11	0.45
SW01	SW01	23/08/2022	Normal	917575	7.5	140	<10	130	-	-	12	1.3	3.7	9.4	12	7.3	0.34	0.87	0.14	0.048	0.092	0.52
SW02	SW02	7/02/2022	Normal	861234	7.2	100	<10	42	<20	42	15	3.3	3	15	6.5	11	0.25	-	0.091	0.023	-	1.7
SW02	SW02	23/08/2022	Normal	917575	7	260	<10	<20	-	-	33	1.7	4.1	17	88	<5	7.6	0.8	0.32	0.019	0.3	59
SW04	SW04	7/02/2022	Normal	861234	6.9	68	<10	24	<20	24	6.8	1.2	1.2	9.6	19	4.8	0.48	-	0.007	0.006	-	3.1
SW04	SW04	23/08/2022	Normal	917575	7.1	31	<10	<20	-	-	8.9	0.7	0.9	3.6	15	6.1	1.8	0.68	0.045	<0.005	0.045	3.5
SW06	SW06	7/02/2022	Normal	861234	7.1	130	<10	45	<20	45	18	2.7	3.4	14	28	6.3	1.1	-	0.008	<0.005	-	3.2
SW06	SW06	23/08/2022	Normal	917575	7.1	88	-	-	-	-	6.8	0.6	1.5	3.4	-	-	1.2	-	0.018	0.008	0.01	5.6

Location_Code	Field_ID	Sampled_Date_Time	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecanesulfonic acid (PFDS)
			PFAS - Perfluoroalkyl Carboxylic Acids											**PFAS - Perfluoroalkyl Sulfonic Acids**							
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Environmental Trigger Value (GHD RAP, 2011)																					
ANZECC 2000 - Lowland Rivers (NSW coastal rivers)																					
ANZG (2018) - FW - 95% (updated 26 July 2021)																					
PFAS NEMP 2.0 2020 Freshwater - 95% - slightly to moderately disturbed systems							**220**												**0.13**		
SW01	OA01	7/02/2022	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01[#1]	<0.01	<0.01
SW01	SW01	7/02/2022	<0.05	0.02	0.03[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04[#1]	<0.01	0.05[#1]	<0.01	<0.01
SW01	OA01	23/08/2022	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01
SW01	SW01	23/08/2022	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01
SW02	SW02	7/02/2022	<0.05	<0.01	<0.01	<0.01	<0.01[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01[#1]	<0.01[#1]	<0.01[#1]	<0.01	0.03[#1]	<0.01	<0.01
SW02	SW02	23/08/2022	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01
SW04	SW04	7/02/2022	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01[#1]	<0.01	<0.01
SW04	SW04	23/08/2022	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW06	SW06	7/02/2022	<0.05	<0.01	<0.01	<0.01	0.01[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01
SW06	SW06	23/08/2022	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Location_Code	Field_ID	Sampled_Date_Time	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	PFAS (Sum of Total)	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFAS (Sum of Total)(WA DER List)
			PFAS - Perfluoroalkyl Sulfonamide							**- Fluorotelomer Sulfonic**				**PFAS - Sums**				
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.1	0.01	0.05
Environmental Trigger Value (GHD RAP, 2011)																	
ANZECC 2000 - Lowland Rivers (NSW coastal rivers)																	
ANZG (2018) - FW - 95% (updated 26 July 2021)																	
PFAS NEMP 2.0 2020 Freshwater - 95% - slightly to moderately disturbed systems																	
SW01	OA01	7/02/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.01	0.01	<0.1	0.01	<0.05
SW01	SW01	7/02/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.09	0.05	0.14	0.09	0.14
SW01	OA01	23/08/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.02	0.02	<0.1	0.02	0.05
SW01	SW01	23/08/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.02	0.02	<0.1	0.02	0.05
SW02	SW02	7/02/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.03	0.03	<0.1	0.03	<0.05
SW02	SW02	23/08/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.02	0.02	<0.1	0.02	0.05
SW04	SW04	7/02/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.01	0.01	<0.1	0.01	<0.05
SW04	SW04	23/08/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.05
SW06	SW06	7/02/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.02	0.03	<0.1	0.03	<0.05
SW06	SW06	23/08/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.05

Env Stds Comments
#1:Calculated from ammonia NH4
#2:Measured as NH3-N at pH 8
#3:Values taken from "Updating nitrate toxicity effects on freshwater aquatic species, 2013"
#4:In absence of total Cr guideline, Cr (VI) guideline has been adopted.

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.