					Inorganics		Acidity & Alkalinity				Major Ions										Nutrients
Location_Code	Field_ID	Sampled_Date	Lab_Report_Number	Sample_Type	pH (Lab)	Total Dissolved Solids	Alkalinity (Carbonate as CaCO3)	Alkalinity (Bicarbonate as CaCO3)	Alkalinity (Hydroxide as CaCO3)	Alkalinity (total as CaCO3)	Calcium	Calcium (Filtered)	Magnesium	Magnesium (Filtered)	Potassium	Potassium (Filtered)	Sodium	Sodium (Filtered)	Chloride	Sulfate	Ammonia as N
					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
EQL					0.1	5	10	20	20	20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	2	0.01
Environmental Trigger Value (GHD RAP, 2011)																					0.9
ANZECC 2000 - Lowland Rivers (NSW coastal rivers)					6.5-9																
ANZG (2018) - FW - 95% (updated 26 July 2021)																					
PFAS NEMP 2.0 2020 Freshwater - 95% - slightly to moderately disturbed systems																					
SW01	SW01	18/03/2021	781804	Normal	7.2	88	<10	1500	<20	1500	12	-	2.7	-	2	-	14	-	18	8	0.04
SW01	SW01	29/06/2021	806729	Normal	8.2	180	<10	76	<20	76	14	-	1.9	-	1.9	-	23	-	27	100	0.22
SW01	QA01	29/06/2021	806729	Field_D	7.3	220	<10	150	<20	150	-	17	-	1.9	-	1.5	-	16	27	14	0.22
SW02	SW02	18/03/2021	781804	Normal	7	98	<10	700	<20	700	27	-	3.1	-	3.6	-	61	-	150	10	0.3
SW02	SW02	29/06/2021	806729	Normal	7.4	200	<10	150	<20	150	-	21	-	2.1	-	2.9	-	12	31	9.2	**1.1**
SW04	SW04	18/03/2021	781804	Normal	7	68	<10	<20	<20	<20	8.2	-	1.3	-	0.9	-	8	-	14	3.1	0.26
SW04	SW04	29/06/2021	806729	Normal	7.5	72	<10	28	<20	28	-	11	-	0.7	-	0.9	-	4	13	<5	0.76
SW06	SW06	18/03/2021	781804	Normal	7.2	90	<10	32	<20	32	17	-	2.7	-	2.4	-	14	-	28	6.2	0.54
SW06	QA01	18/03/2021	781804	Field_D	7.1	96	<10	35	<20	35	17	-	2.8	-	2.6	-	15	-	34	6.5	0.51
SW06	SW06	29/06/2021	806729	Normal	7.1	310	<10	97	<20	97	-	22	-	2.1	-	2.9	-	11	28	27	**2.2**

					Metals				PFAS - Perfluoroalkyl Carboxylic Acids										
Location_Code	Field_ID	Sampled_Date	Lab_Report_Number	Sample_Type	Chromium (III+VI) (Filtered)	Chromium (hexavalent) (Filtered)	Chromium (Trivalent) (Filtered)	Zinc (Filtered)	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)
					mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL					0.001	0.005	0.005	0.005	0.05	0	0	0	0.01	0	0	0	0	0	0
Environmental Trigger Value (GHD RAP, 2011)								0.4											
ANZECC 2000 - Lowland Rivers (NSW coastal rivers)																			
ANZG (2018) - FW - 95% (updated 26 July 2021)					**0.001[#3]**	**0.001**													
PFAS NEMP 2.0 2020 Freshwater - 95% - slightly to moderately disturbed systems													*220*						
SW01	SW01	18/03/2021	781804	Normal	**0.006**	**0.008**	<0.005	0.74	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW01	SW01	29/06/2021	806729	Normal	**0.11**	**0.1**	0.01	0.56	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW01	QA01	29/06/2021	806729	Field_D	**0.11**	**0.084**	0.026	0.5	<0.1[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW02	SW02	18/03/2021	781804	Normal	**0.007**	**0.011**	<0.005	4.7	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW02	SW02	29/06/2021	806729	Normal	**0.21**	**0.15**	0.06	1.8	<0.1[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW04	SW04	18/03/2021	781804	Normal	**0.002**	**<0.005**	<0.005	0.85	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW04	SW04	29/06/2021	806729	Normal	**<0.01**	**<0.005**	<0.005	1.8	<0.1[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW06	SW06	18/03/2021	781804	Normal	**0.003**	**<0.005**	<0.005	1.4	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW06	QA01	18/03/2021	781804	Field_D	**0.003**	**<0.005**	<0.005	1.5	<0.05	<0.01	<0.01	<0.01	0.01[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW06	SW06	29/06/2021	806729	Normal	**<0.01**	**0.007**	<0.005	5.1	<0.1[#1]	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

					PFAS - Perfluoroalkyl Sulfonic Acids								PFAS - Perfluoroalkyl Sulfonamide						
Location_Code	Field_ID	Sampled_Date	Lab_Report_Number	Sample_Type	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)	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)
					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					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	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										*0.13*									
SW01	SW01	18/03/2021	781804	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW01	SW01	29/06/2021	806729	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW01	QA01	29/06/2021	806729	Field_D	<0.01	<0.01	<0.01	<0.01	<0.01	0.03[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW02	SW02	18/03/2021	781804	Normal	<0.01	<0.01	<0.01	0.02[#1]	0.02[#1]	*0.3*[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW02	SW02	29/06/2021	806729	Normal	<0.01	<0.01	<0.01	0.01[#1]	<0.01	0.09[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW04	SW04	18/03/2021	781804	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.01[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW04	SW04	29/06/2021	806729	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.02[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW06	SW06	18/03/2021	781804	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.03[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW06	QA01	18/03/2021	781804	Field_D	<0.01	<0.01	<0.01	<0.01	<0.01	0.06[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SW06	SW06	29/06/2021	806729	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.03[#1]	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

					PFAS - Fluorotelomer Sulfonic Acids				PFAS - Sums				
Location_Code	Field_ID	Sampled_Date	Lab_Report_Number	Sample_Type	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)
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL					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	SW01	18/03/2021	781804	Normal	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.05
SW01	SW01	29/06/2021	806729	Normal	<0.01	<0.05	<0.01	<0.01	0.02	0.02	0.1	0.02	0.1
SW01	QA01	29/06/2021	806729	Field_D	<0.01	<0.05	<0.01	<0.01	0.03	0.03	<0.1	0.03	<0.1
SW02	SW02	18/03/2021	781804	Normal	<0.01	<0.05	<0.01	<0.01	0.32	0.3	0.34	0.32	0.32
SW02	SW02	29/06/2021	806729	Normal	<0.01	<0.05	<0.01	<0.01	0.1	0.09	0.1	0.1	0.1
SW04	SW04	18/03/2021	781804	Normal	<0.01	<0.05	<0.01	<0.01	0.01	0.01	<0.1	0.01	<0.05
SW04	SW04	29/06/2021	806729	Normal	<0.01	<0.05	<0.01	<0.01	0.02	0.02	<0.1	0.02	<0.1
SW06	SW06	18/03/2021	781804	Normal	<0.01	<0.05	<0.01	<0.01	0.03	0.03	<0.1	0.03	<0.05
SW06	QA01	18/03/2021	781804	Field_D	<0.01	<0.05	<0.01	<0.01	0.06	0.07	<0.1	0.07	0.07
SW06	SW06	29/06/2021	806729	Normal	<0.01	<0.05	<0.01	<0.01	0.03	0.05	<0.1	0.05	<0.1

Env Stds Comments
#1:Calculated from ammonia NH4
#2:Measured as NH3-N at pH 8
#3: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.