Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW18-3	GWSUMP	SW12	SW13	SW14	DW2	DW3	GW SUMP	GW10-12	GW10-3	GW1-12	GW11-3	GW12-12	GW12-30	GW12-3	GW13-12
						Sample Date	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022
						Lab Report No.	849609	849609	849609	849609	849609	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
Acenaphthylene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	µg/L	1	1.5				<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Benz(a)anthracene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	µg/L	1	0.4				<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Cresol Total	mg/L	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
Dibenz(a,h)anthracene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	µg/L	1	1.7				<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	µg/L	1	90				<1	<1	<1	<1	<1	<200	<400	-	<1	<1	<1	<1	<1	<1	<1	<1
PAHs (Sum of total)	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	µg/L	1	4				<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/L	3	520				<3	<3	<3	<3	<3	-	-	-	<3	<3	<3	<3	<3	<3	<3	<3
Pyrene	µg/L	1					<1	<1	<1	<1	<1	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1
Pesticides																						
Parathion	µg/L	2					<2	<2	<2	<2	<2	-	-	-	<2	<2	<2	<2	<2	<2	<2	<2
Pirimiphos-methyl	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenolics																						
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100					<100	<100	<100	<100	<100	-	-	-	<100	<100	<100	<100	<100	<100	<100	<100
Phenols (Total Halogenated)	mg/L	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
Phenols (Total Non Halogenated)	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polychlorinated Biphenyls																						
Arochlor 1016	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1221	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1232	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1242	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1248	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1254	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Arochlor 1260	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
PCBs (Sum of total)	µg/L	5					<5	<5	<5	<5	<5	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5
Solvents																						
Methyl Ethyl Ketone	µg/L	1					<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	µg/L	1					<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	0.001					<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	0.001					<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	µg/L	1					<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs																						
EPN	µg/L	2					<2	<2	<2	<2	<2	-	-	-	<2	<2	<2	<2	<2	<2	<2	<2
TPH																						
C10-C16	mg/L	0.05					0.05	0.14	<0.05	<0.05	<0.05	5.8	2.5	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09
C16-C34	mg/L	0.1					0.2	0.9	<0.1	<0.1	<0.1	24	8.8	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
C34-C40	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	0.4	0.2	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
F2-NAPHTHALENE	mg/L	0.05					0.05	0.14	<0.05	<0.05	<0.05	5.8	2.5	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09
+C10 - C36 (Sum of total)	µg/L	100					200	1010	<100	<100	<100	30,700	11,900	-	<100	<100	<100	<100	<100	<100	<100	350
C6 - C9	µg/L	20					<20	<20	<20	<20	<20	<400	<800	-	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C14	µg/L	50					<50	110	<50	<50	<50	5900	2800	-	<50	<50	<50	<50	<50	<50	<50	50
C15 - C28	µg/L	100					200	800	<100	<100	<100	24,000	8700	-	<100	<100	<100	<100	<100	<100	<100	300
C29-C36	µg/L	100					<100	100	<100	<100	<100	800	400	-	<100	<100	<100	<100	<100	<100	<100	<100
C10 - C40 (Sum of total)	µg/L	100					250	1040	<100	<100	<100	30,200	11,500	-	<100	<100	<100	<100	<100	<100	<100	390
C6-C10	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.4	<0.8	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW13-3	GW16-12	GW16-30	GW16-3	GW17-11	GW17-12	GW17-30	GW18-12	GW18-3	GW1-3	GW15-12	SW12	SW13	SW14	SW15	TC SUMP
						Sample Date	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
Field																						
SWL	mbgl						8.86	1.87	6.89	1.53	1.27	2.27	2.18	1.57	1.26	1.2	1.53	-	-	-	-	-
pH	pH		6-8	6-8.5			5.57	6.02	5.35	4.9	7.12	5.89	12.33	8.36	6.38	4.79	5.51	6.96	7.11	7.01	6.97	7.9
Electrical conductivity	uS/cm						645	277.6	175.3	522	6.62	6.17	9.971	170	3.14	1631	7.34	1027	459.7	269.2	1014	8529
Redox Potential	mV						-132	91.9	107.2	99.6	48.8	60.8	-67.1	48.4	57.2	73.9	47.7	1517	26.1	61.1	51.5	1.8
Dissolved Oxygen	%S			80-100			54.2	78.1	58.7	47.1	90.2	83.2	55.3	24.9	42.1	82.2	93.7	97.6	84.6	80.5	84.5	73.9
Temp	oC						28.4	28.8	28.5	29	29	29	28.8	31.2	30.5	29.7	27.4	28.1	25.7	26.7	25.6	30.7
Turbidity	ntu						-	-	-	-	-	-	-	-	-	-	-	631.85	11611.5	339.92	82.83	40.8
PFAS																						
(8:2 FTSA)	UG/L	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
(10:2 FTSA)	UG/L	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
(4:2 FTSA)	UG/L	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
(N-EtFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(N-EtFOSA)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
(N-EtFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(N-MeFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(N-MeFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sum of PFASs (n=30)*	UG/L	0.1					0.53	0.36	<0.1	0.34	<0.1	<0.1	<0.1	0.2	0.5	<0.1	<0.1	2.6	0.65	<0.1	<0.1	16.12
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					0.18	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.11	0.24	<0.01	<0.01	0.45	0.09	<0.01	0.02	1.87
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					0.52	0.36	<0.05	0.33	<0.05	<0.05	<0.05	0.2	0.48	<0.05	0.07	2.55	0.65	<0.05	<0.05	15.92
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					0.08	0.1	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21	0.11	<0.01	<0.01	8.3
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	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
Perfluorobutanoic acid (PFBA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.07	<0.05	<0.05	1.3
Perfluorodecanesulfonic acid (PFDS)	UG/L	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
Perfluorodecanoic acid (PFDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.03
Perfluorododecanoic acid (PFDoDA)	UG/L	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
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	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
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					0.02	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21	0.05	<0.01	<0.01	0.62
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					0.1	0.05	<0.01	0.07	<0.01	<0.01	<0.01	0.09	0.24	<0.01	<0.01	0.01	<0.01	<0.01	0.02	0.39
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					0.07	0.03	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.77	0.14	<0.01	<0.01	1.9
Perfluorononanoic acid (PFNA)	UG/L	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	<0.01	<0.01	<0.01	0.05
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoate	UG/L	0.01			632		0.05	0.04	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.42	0.07	<0.01	<0.01	1.6
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		0.13	0.05	<0.01	0.04	<0.01	<0.01	<0.01	0.11	0.24	<0.01	<0.01	0.03	0.02	<0.01	0.02	0.27
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					0.07	0.06	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.71	0.19	<0.01	<0.01	1
Perfluoropropanesulfonic acid (PFPrS)	UG/L	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	0.07
Perfluorotetradecanoic acid (PFTeDA)	UG/L	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
Perfluorotridecanoic acid (PFTrDA)	UG/L	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
Perfluoroundecanoic acid (PFUnDA)	UG/L	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
Sum (PFHxS + PFOS)*	UG/L	0.01					0.23	0.1	<0.01	0.11	<0.01	<0.01	<0.01	0.2	0.48	<0.01	<0.01	0.04	0.02	<0.01	0.04	0.66
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					0.28	0.14	<0.01	0.15	<0.01	<0.01	<0.01	0.2	0.48	<0.01	<0.01	0.46	0.09	<0.01	0.04	2.26
VFA																						
4-Methylvaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptanoic acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isovaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VFA as Acetic Acid Equivalents*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEX																						
Benzene	µg/L	1	900	900			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	<20
Ethylbenzene	µg/L	1	110				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	<20
Toluene	µg/L	1	230				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	<20
Xylene (m & p)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	-	<2	<40
Xylene (o)	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	<1	<20
Xylene Total	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	<3	<60
C6-C10 less BTEX (F1)	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	-	-	-	-	<0.4
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,1,1-trichloroethane	µg/L	1	400				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,1,2,2-tetrachloroethane	µg/L	1	500				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,1,2-trichloroethane	µg/L	1	5800				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,1-dichloroethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,1-dichloroethene	µg/L	1	900				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,2,3-trichloropropane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,2-dichloroethane	µg/L	1	2600				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,2-dichloropropane	µg/L	1	1200				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW13-3	GW16-12	GW16-30	GW16-3	GW17-11	GW17-12	GW17-30	GW18-12	GW18-3	GW1-3	GW15-12	SW12	SW13	SW14	SW15	TC SUMP
						Sample Date	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
1,3-dichloropropane	µg/L	1	1400				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Bromochloromethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Bromodichloromethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Bromoform	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Carbon tetrachloride	µg/L	1	320				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Chlorodibromomethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Chloroethane	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Chloroform	µg/L	5	1100				-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Chloromethane	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
cis-1,2-dichloroethene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
cis-1,3-dichloropropene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Dibromomethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Dichloromethane	µg/L	1	5000				-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Trichloroethene	µg/L	1	400				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Tetrachloroethene	µg/L	1	100				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
trans-1,2-dichloroethene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
trans-1,3-dichloropropene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Vinyl chloride	µg/L	1	140				-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
1,3-Dinitrobenzene	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
2-Nitrotoluene	µg/L	100					-	-	-	-	<100	<100	<100	<100	<100	-	-	-	-	-	<100	-
4-Nitrotoluene	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
m-Nitrotoluene	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
Nitrobenzene	µg/L	100					-	-	-	-	<100	<100	<100	<100	<100	-	-	-	-	-	<100	-
RDX	mg/L	0.1					-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	-
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,3-dichlorobenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,4-dichlorobenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
4-chlorotoluene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Bromobenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Chlorobenzene	µg/L	1	100				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Hexachlorobenzene	µg/L	0.2	0.2				<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Bromomethane	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Dichlorodifluoromethane	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Iodomethane	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Trichlorofluoromethane	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					<10	<10	<10	<10	-	-	-	-	-	<10	<10	-	-	-	-	-
2,4,6-trichlorophenol	µg/L	10					<10	<10	<10	<10	-	-	-	-	-	<10	<10	-	-	-	-	-
2,4-dichlorophenol	µg/L	3					<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
2,6-dichlorophenol	µg/L	3					<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
2-chlorophenol	µg/L	3					<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
Pentachlorophenol	µg/L	10	33				<10	<10	<10	<10	-	-	-	-	-	<10	<10	-	-	-	-	-
tetrachlorophenols	µg/L	30					<30	<30	<30	<30	-	-	-	-	-	<30	<30	-	-	-	-	-
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dinoseb	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	-
Glyphosate	mg/L	0.01					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					<20	<20	<20	28	-	-	-	-	-	<20	28	36	<20	<20	-	390
Nitrite + Nitrate as N	mg/L	0.05					<0.05	8.7	0.15	0.73	-	-	-	-	-	<0.05	0.27	1.2	1.7	0.43	-	<2.5
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	<10	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-	16
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	<20,000	<20,000	-	-	-	-	-	<20,000	<20,000	<20,000	<20,000	<20,000	-	<20,000
Alkalinity (total) as CaCO3	mg/L	20					<20	<20	<20	28	-	-	-	-	-	<20	28	36	<20	<20	-	410
Ammonia as N	µg/L	10	1200	20			390	<10	<10	<10	-	-	-	-	-	10	<10	210	210	40	-	1,100,000
Chloride	mg/L	1					80	85	21	62	-	-	-	-	-	290	790	190	110	56	-	1700
COD	mg/L	25					88	<25	<25	<25	160	91	<25	<25	<25	<25	<25	66	49	42	<25	2200
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					3.9	2.3	0.6	0.8	-	-	-	-	-	0.7	1.1	2.3	2.4	1.2	-	1300
Nitrate (as N)	mg/L	0.02					<0.02	8.6	0.15	0.73	-	-	-	-	-	0.02	0.27	1.1	1.6	0.42	-	<2.5
Nitrite (as N)	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	0.13	0.13	<0.02	-	<1

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW13-3	GW16-12	GW16-30	GW16-3	GW17-11	GW17-12	GW17-30	GW18-12	GW18-3	GW1-3	GW15-12	SW12	SW13	SW14	SW15	TC SUMP
						Sample Date	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
Nitrogen (Total)	µg/L	200		**300**			3900	11,000	750	1530	-	-	-	-	-	700	1370	**3500**	**4100**	**1630**	-	1,300,000
Phosphate (as P)	mg/L	0.01					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	mg/L	0.01		**0.03**			0.05	0.01	0.01	0.02	-	-	-	-	-	0.01	0.03	**0.03**	**0.03**	0.01	-	6.9
Reactive Phosphorus as P	mg/L	0.01		**0.01**			0.49	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	0.02	0.01	<0.01	<0.01	-	7.6
Sodium	mg/L	0.5					25	70	43	39	-	-	-	-	-	200	410	100	67	32	-	1600
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5					<5	16	39	<5	-	-	-	-	-	32	120	65	59	36	-	<5
TDS	mg/L	10					220	270	130	150	9700	8400	3100	550	850	640	1700	610	700	260	620	6700
TOC	mg/L	5					15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	16	12	6.7	<5	2700
TSS	mg/L	1		**0.01|10**			68	83	<5	<5	49	14	26	6.5	270	29	<5	**140**	**370**	**130**	**15**	68
MAH																						
1,2,4-trimethylbenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
1,3,5-trimethylbenzene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Total MAH	mg/L	0.003					-	-	-	-	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	-	-	-	<0.003	-
Isopropylbenzene	µg/L	1	**40**				-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Styrene	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67
Arsenic	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.028
Arsenic (Filtered)	mg/L	0.001					-	-	-	-	<0.001	<0.001	<0.001	0.002	<0.001	-	-	-	-	-	<0.001	-
Barium	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Filtered)	mg/L	0.02					-	-	-	-	0.1	0.09	1.1	0.08	<0.02	-	-	-	-	-	<0.02	-
Beryllium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium (Filtered)	mg/L	0.001					-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-
Boron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4
Boron (Filtered)	mg/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Cadmium	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002
Cadmium (Filtered)	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	0.0018	0.0008	<0.0002	<0.0002	<0.0002	-	-	-	-	-	<0.0002	-
Calcium	mg/L	0.5					2.5	5.6	3.2	6.8	-	-	-	-	-	16	90	28	20	11	-	47
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (hexavalent)	mg/L	0.005	**0.02**	**0.02**			-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-
Chromium (III+VI)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17
Chromium (III+VI) (Filtered)	mg/L	0.001					<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-
Cobalt	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.037
Cobalt (Filtered)	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	0.017	0.008	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-
Copper	mg/L	0.001	**0.003**	**0.003**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
Copper (Filtered)	mg/L	0.001	**0.003**	**0.003**			<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.002	0.003	0.002	0.001	0.002	0.003	0.003	0.001	0.001	-
Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1
Iron (Filtered)	mg/L	0.05					-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Lead	mg/L	0.001	**0.0066**	**0.0066**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.016
Lead (Filtered)	mg/L	0.001	**0.0066**	**0.0066**			<0.001	<0.001	<0.001	<0.001	0.023	0.002	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
Magnesium	mg/L	0.5					1.9	2.8	1.6	0.6	-	-	-	-	-	24	57	15	9.7	3.9	-	37
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17
Manganese (Filtered)	mg/L	0.005					-	-	-	-	0.27	0.16	<0.005	<0.005	0.01	-	-	-	-	-	0.038	-
Mercury	mg/L	0.0001	**0.0007**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Filtered)	mg/L	0.0001	**0.0007**				-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	<0.0001	-
Nickel	mg/L	0.001	**0.2**	**0.2**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14
Nickel (Filtered)	mg/L	0.001	**0.2**	**0.2**			0.001	<0.001	0.002	<0.001	0.054	0.087	0.001	0.001	0.003	0.007	0.009	0.002	0.001	<0.001	0.003	-
Phosphorus	mg/L	0.01		**0.01|0.03**			0.05	0.01	0.01	0.02	-	-	-	-	-	0.01	0.03	0.03	0.03	0.01	-	6.9
Potassium	mg/L	0.5					8.8	11	4.6	0.6	-	-	-	-	-	1	12	14	10	5.3	-	560
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01
Selenium (Filtered)	mg/L	0.001					-	-	-	-	<0.001	<0.001	<0.001	<0.001	0.003	-	-	-	-	-	<0.001	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005	**0.16**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.081
Vanadium (Filtered)	mg/L	0.005	**0.16**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.005	**0.023**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23
Zinc (Filtered)	mg/L	0.005	**0.023**				0.01	0.009	0.012	0.007	0.21	0.42	<0.005	<0.005	0.017	0.037	0.035	0.007	<0.005	<0.005	0.009	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
a-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Aldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Aldrin + Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW13-3	GW16-12	GW16-30	GW16-3	GW17-11	GW17-12	GW17-30	GW18-12	GW18-3	GW1-3	GW15-12	SW12	SW13	SW14	SW15	TC SUMP
						Sample Date	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
b-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
chlordane	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
d-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
DDT	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
DDT+DDE+DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endosulfan I	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endosulfan II	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endosulfan sulphate	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endrin	µg/L	0.2	**0.01**				<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endrin aldehyde	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Endrin ketone	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
g-BHC (Lindane)	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Heptachlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Heptachlor epoxide	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Methoxychlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-
Toxaphene	mg/L	0.005					<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	<0.005	-	-	-	-	-
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Bolstar (Sulprofos)	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Chlorfenvinphos	µg/L	20					<20	<20	<20	<20	-	-	-	-	-	<20	<20	-	-	-	-	-
Chlorpyrifos	µg/L	2	**0.04**				<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Chlorpyrifos-methyl	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-
Coumaphos	µg/L	20					<20	<20	<20	<20	-	-	-	-	-	<20	<20	-	-	-	-	-
Demeton-O	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Demeton-S	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Diazinon	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Dichlorvos	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Dimethoate	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Disulfoton	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Ethion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Ethoprop	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Fenitrothion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Fensulfothion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Fenthion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Malathion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Merphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-
Methyl parathion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Mevinphos (Phosdrin)	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Monocrotophos	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Naled (Dibrom)	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Omethoate	µg/L	20					<20	<20	<20	<20	-	-	-	-	-	<20	<20	-	-	-	-	-
Phorate	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Pyrazophos	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Ronnel	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Terbufos	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Trichloronate	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Tetrachlorvinphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-
Organotins																						
Tributyltin	µg/L	12.5					<12.5	<12.5	<12.5	<12.5	-	-	-	-	-	<12.5	<12.5	<12.5	<12.5	<12.5	-	-
Other																						
Butyric Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanoic Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	<0.00005	<0.00005	<0.00005	<0.00005	0.00054
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	<0.001	-	-	-	-	-
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
2,4-dinitrophenol	mg/L	0.03					<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	<0.03	<0.03	-	-	-	-	-
2-methylphenol	µg/L	3					<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
2-nitrophenol	µg/L	10					<10	<10	<10	<10	-	-	-	-	-	<10	<10	-	-	-	-	-
3-&4-methylphenol	µg/L	6					<6	<6	<6	<6	-	-	-	-	-	<6	<6	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	30					<30	<30	<30	<30	-	-	-	-	-	<30	<30	-	-	-	-	-
4-chloro-3-methylphenol	µg/L	10					<10	<10	<10	<10	-	-	-	-	-	<10	<10	-	-	-	-	-
4-nitrophenol	µg/L	30					<30	<30	<30	<30	-	-	-	-	-	<30	<30	-	-	-	-	-
Acenaphthene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW13-3	GW16-12	GW16-30	GW16-3	GW17-11	GW17-12	GW17-30	GW18-12	GW18-3	GW1-3	GW15-12	SW12	SW13	SW14	SW15	TC SUMP
						Sample Date	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022	13/01/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948
Acenaphthylene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Anthracene	µg/L	1	1.5				<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Benz(a)anthracene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Benzo(a) pyrene	µg/L	1	0.4				<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Chrysene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Cresol Total	mg/L	0.01					<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Fluoranthene	µg/L	1	1.7				<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Fluorene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Naphthalene	µg/L	1	90				<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	<200
PAHs (Sum of total)	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Phenanthrene	µg/L	1	4				<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Phenol	µg/L	3	520				<3	<3	<3	<3	-	-	-	-	-	<3	<3	-	-	-	-	-
Pyrene	µg/L	1					<1	<1	<1	<1	-	-	-	-	-	<1	<1	-	-	-	-	-
Pesticides																						
Parathion	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
Pirimiphos-methyl	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	-	-	-	-	-
Phenolics																						
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	-
Phenols (Total Halogenated)	mg/L	0.01					<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	-	-	-	-	-
Phenols (Total Non Halogenated)	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-
Polychlorinated Biphenyls																						
Arochlor 1016	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1221	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1232	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1242	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1248	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1254	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Arochlor 1260	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
PCBs (Sum of total)	µg/L	5					<5	<5	<5	<5	-	-	-	-	-	<5	<5	-	-	-	-	-
Solvents																						
Methyl Ethyl Ketone	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
4-Methyl-2-pentanone	µg/L	1					-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-	<5	-
Acetone	mg/L	0.001					-	-	-	-	<0.005	<0.005	0.007	<0.005	<0.005	-	-	-	-	-	<0.005	-
Allyl chloride	mg/L	0.001					-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-
Carbon disulfide	µg/L	1					-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-	<1	-
SVOCs																						
EPN	µg/L	2					<2	<2	<2	<2	-	-	-	-	-	<2	<2	-	-	-	-	-
TPH																						
C10-C16	mg/L	0.05					<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	<0.05	-	-	-	-	2
C16-C34	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-	-	-	-	6.5
C34-C40	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-	-	-	-	0.2
F2-NAPHTHALENE	mg/L	0.05					<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	<0.05	-	-	-	-	2
+C10 - C36 (Sum of total)	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	8900
C6 - C9	µg/L	20					<20	<20	<20	<20	-	-	-	-	-	<20	<20	-	-	-	-	<400
C10 - C14	µg/L	50					<50	<50	<50	<50	-	-	-	-	-	<50	<50	-	-	-	-	1800
C15 - C28	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	6700
C29-C36	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	400
C10 - C40 (Sum of total)	µg/L	100					<100	<100	<100	<100	-	-	-	-	-	<100	<100	-	-	-	-	8700
C6-C10	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	-	-	-	-	<0.4

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW2-12	GW2-3	GW3-12	GW3-3	GW8-12	GW8-3	GW9-12	GWILP	LMP02	LP02	SW STG1&2	SW STG5	GW17-12	GW17-30
						Sample Date	13/01/2022	13/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	15/02/2022	15/02/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	864296	864296
Field																						
SWL	mbgl						8.11	1.61	1.43	0.98	2.09	1.69	0.95	0.3	3.39	-	-	-	-	-	2.23	2.18
pH	pH		6-8	6-8.5			5.02	4.94	6.66	8.45	7.36	4.35	6.33	6.78	4.74	7.35	7.04	8.01	6.56	7.12	5.49	12.42
Electrical conductivity	uS/cm						17888	65040	22900	2858	446.8	243.6	27157	15190	4.44	10076	4377	7816	6.52	337.6	13248	8640
Redox Potential	mV						52.48	49.6	-	86.2	25.8	127.2	88.1	41.3	138.8	306	-57.3	-163.8	85.4	138.2	180	9.4
Dissolved Oxygen	%S			80-100			30.3	63.5	21.7	83.5	83.8	47.4	62.1	77.6	62.7	23.6	48.3	78.5	81.2	101.9	92.7	46.2
Temp	oC						28.9	28.4	28.9	28.8	30	29.8	25.5	25.7	29.7	26.7	26.3	29.4	26.3	27.2	30.8	30.2
Turbidity	ntu						-	-	-	-	-	-	-	-	-	30.6	51.83	68.05	39.47	1197.8	12.3	18.64
PFAS																						
(8:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
(10:2 FTSA)	UG/L	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
(4:2 FTSA)	UG/L	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
(N-EtFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	<0.05
(N-EtFOSA)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
(N-EtFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(N-MeFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(N-MeFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sum of PFASs (n=30)*	UG/L	0.1					<0.1	0.18	<0.1	<0.1	<0.1	0.46	-	<0.1	<0.1	14.72	2.04	20.23	<0.1	0.47	<0.1	<0.1
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.02	-	0.01	<0.01	1.19	0.95	1.99	<0.01	0.03	<0.01	<0.01
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					<0.05	0.18	<0.05	<0.05	<0.05	0.46	-	<0.05	<0.05	14.55	1.79	19.92	<0.05	0.47	<0.05	<0.05
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.19	-	<0.01	<0.01	6.1	0.09	9.9	<0.01	0.16	<0.01	<0.01
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	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
Perfluorobutanoic acid (PFBA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	0.06	-	<0.05	<0.05	0.98	0.15	1.4	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid (PFDS)	UG/L	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
Perfluorodecanoic acid (PFDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.03	<0.01	0.09	<0.01	<0.01	<0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	UG/L	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
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.01	-	<0.01	<0.01	0.34	0.08	0.49	<0.01	0.01	<0.01	<0.01
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.04	-	<0.01	<0.01	0.32	0.34	0.48	<0.01	<0.01	<0.01	<0.01
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					<0.01	0.03	<0.01	<0.01	<0.01	0.07	-	<0.01	<0.01	2.3	0.13	3.5	<0.01	0.1	<0.01	<0.01
Perfluorononanoic acid (PFNA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.03	0.02	0.06	<0.01	<0.01	<0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoate	UG/L	0.01			632		<0.01	<0.01	<0.01	<0.01	<0.01	0.02	-	<0.01	<0.01	0.87	0.21	1.3	<0.01	0.02	<0.01	<0.01
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.01	<0.01	0.32	0.74	0.69	<0.01	0.01	<0.01	<0.01
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.06	0.03	0.06	<0.01	<0.01	<0.01	<0.01
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.07	-	<0.01	<0.01	1.2	0.05	1.6	<0.01	0.17	<0.01	<0.01
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	0.05	0.02	0.08	<0.01	<0.01	<0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	UG/L	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
Perfluorotridecanoic acid (PFTrDA)	UG/L	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
Perfluoroundecanoic acid (PFUnDA)	UG/L	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
Sum (PFHxS + PFOS)*	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.04	-	0.01	<0.01	0.64	1.08	1.17	<0.01	0.01	<0.01	<0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.06	-	0.01	<0.01	1.51	1.29	2.47	<0.01	0.03	<0.01	<0.01
VFA																						
4-Methylvaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Heptanoic acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Isovaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Isobutyric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Total VFA as Acetic Acid Equivalents*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
BTEX																						
Benzene	µg/L	1	900	900			<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<40	-	-	<1	<1
Ethylbenzene	µg/L	1	110				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	2	<40	-	-	<1	<1
Toluene	µg/L	1	230				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<40	-	-	<1	<1
Xylene (m & p)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2	<80	-	-	<2	<2
Xylene (o)	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<40	-	-	<1	<1
Xylene Total	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	<3	<120	-	-	<3	<3
C6-C10 less BTEX (F1)	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02	<0.8	-	-	<0.02	<0.02
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,1,1-trichloroethane	µg/L	1	400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,1,2,2-tetrachloroethane	µg/L	1	500				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,1,2-trichloroethane	µg/L	1	5800				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,1-dichloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,1-dichloroethene	µg/L	1	900				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,2,3-trichloropropane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,2-dichloroethane	µg/L	1	2600				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,2-dichloropropane	µg/L	1	1200				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW2-12	GW2-3	GW3-12	GW3-3	GW8-12	GW8-3	GW9-12	GWILP	LMP02	LP02	SW STG1&2	SW STG5	GW17-12	GW17-30
						Sample Date	13/01/2022	13/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	15/02/2022	15/02/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	864296	864296
1,3-dichloropropane	µg/L	1	1400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Bromochloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Bromodichloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Bromoform	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Carbon tetrachloride	µg/L	1	320				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Chlorodibromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Chloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Chloroform	µg/L	5	1100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Chloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
cis-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
cis-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Dibromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Dichloromethane	µg/L	1	5000				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Trichloroethene	µg/L	1	400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Tetrachloroethene	µg/L	1	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
trans-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
trans-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Vinyl chloride	µg/L	1	140				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
1,3-Dinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
2-Nitrotoluene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	<100
4-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
m-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
Nitrobenzene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	<100
RDX	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,3-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,4-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
4-chlorotoluene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Bromobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Chlorobenzene	µg/L	1	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Hexachlorobenzene	µg/L	0.2	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Bromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Dichlorodifluoromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Iodomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Trichlorofluoromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10
2,4,6-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10
2,4-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,6-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-chlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Pentachlorophenol	µg/L	10	33				<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10
tetrachlorophenols	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	<30	<30
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Dinoseb	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Glyphosate	mg/L	0.01					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					22	33	47	<20	<20	<20	100	220	<20	3100	650	5500	54	32	31	<20
Nitrite + Nitrate as N	mg/L	0.05					1.1	3.3	2.3	2.7	2.2	8.2	40	3.6	0.23	<2.5	0.15	<2.5	0.31	0.56	0.42	3.7
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	81	<10	<10	<10	120
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	1,100,000
Alkalinity (total) as CaCO3	mg/L	20					22	33	47	<20	<20	<20	100	220	<20	3100	650	5600	54	32	31	1300
Ammonia as N	µg/L	10	1200	20			90	4300	140	<10	<10	20	6000	<10	<10	770,000	110,000	1,500,000	110	270	<10	50
Chloride	mg/L	1					5400	20,000	6300	720	110	41	9800	31,000	5.7	1200	150	1900	15	73	3900	790
COD	mg/L	25					260	32	350	<25	<25	<25	-	230	<25	1800	120	3000	<25	35	190	25
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					1.1	5.6	1.8	1.9	0.4	5.1	8.6	0.6	1	730	86	1600	1.3	1.7	<0.2	0.8
Nitrate (as N)	mg/L	0.02					1.1	3.2	2.2	2.6	2.2	8.1	36	3.6	0.23	<2.5	0.13	<1	0.29	0.38	0.42	3.6
Nitrite (as N)	mg/L	0.02					<0.02	0.07	0.13	<0.02	<0.02	<0.02	4.3	<0.02	<0.02	<1	<0.02	<1	<0.02	0.18	<0.02	0.09

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW2-12	GW2-3	GW3-12	GW3-3	GW8-12	GW8-3	GW9-12	GWILP	LMP02	LP02	SW STG1&2	SW STG5	GW17-12	GW17-30
						Sample Date	13/01/2022	13/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	15/02/2022	15/02/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	864296	864296
Nitrogen (Total)	µg/L	200		300			2200	8900	4100	4600	2600	13,300	48,600	4200	1230	730,000	86,150	1,600,000	1610	2260	420	4500
Phosphate (as P)	mg/L	0.01					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	mg/L	0.01		0.03			0.5	0.99	0.72	0.02	0.08	0.02	0.23	0.03	0.05	2.8	0.25	11	0.02	0.05	<0.05	<0.05
Reactive Phosphorus as P	mg/L	0.01		0.01			0.09	0.82	0.64	<0.01	0.17	0.03	0.19	0.02	0.02	2.8	<0.01	8.2	<0.01	<0.01	0.02	<0.01
Sodium	mg/L	0.5					3000	8800	3800	440	63	42	5200	17,000	7.8	1100	160	1500	16	53	1600	460
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5					750	2500	990	60	20	6	1300	3700	<5	29	10	<5	26	32	370	260
TDS	mg/L	10					12,000	41,000	15,000	1400	250	140	-	46,000	34	3900	700	6400	140	410	7200	3100
TOC	mg/L	5					<5	5.2	<5	<5	<5	<5	-	<5	<5	780	58	1200	<5	6.8	7.4	<5
TSS	mg/L	1		0.01|10			630	10	<5	22	<5	32	-	<5	16	33	70	55	12	480	8.4	41
MAH																						
1,2,4-trimethylbenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
1,3,5-trimethylbenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Total MAH	mg/L	0.003					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.003	<0.003
Isopropylbenzene	µg/L	1	40				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Styrene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	0.3	0.61	-	-	-	-
Arsenic	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	0.006	0.07	-	-	<0.001	<0.001
Arsenic (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Filtered)	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.37
Beryllium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001
Beryllium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	mg/L	0.05					-	-	-	-	-	-	-	2.3	-	-	1.3	2.5	-	-	<0.05	<0.05
Boron (Filtered)	mg/L	0.05					0.16	0.41	0.28	<0.05	<0.05	<0.05	1.1	-	<0.05	1.1	-	-	<0.05	<0.05	-	-
Cadmium	mg/L	0.0002	0.014	0.014			-	-	-	-	-	-	-	-	-	-	<0.0002	<0.002	-	-	0.0008	<0.0002
Cadmium (Filtered)	mg/L	0.0002	0.014	0.014			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	0.5					380	930	350	39	10	3.7	320	1000	0.7	38	46	61	23	15	210	480
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (hexavalent)	mg/L	0.005	0.02	0.02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	0.013
Chromium (III+VI)	mg/L	0.001					-	-	-	-	-	-	-	<0.001	-	-	0.004	0.36	-	-	-	-
Chromium (III+VI) (Filtered)	mg/L	0.001					0.005	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	0.16	-	-	<0.001	<0.001	-	-
Cobalt	mg/L	0.001	0.014	0.014			-	-	-	-	-	-	-	-	-	-	0.004	0.035	-	-	0.009	<0.001
Cobalt (Filtered)	mg/L	0.001	0.014	0.014			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.001	0.003	0.003			-	-	-	-	-	-	-	0.002	-	-	0.018	0.016	-	-	<0.001	0.002
Copper (Filtered)	mg/L	0.001	0.003	0.003			<0.001	0.006	<0.001	0.002	0.003	0.001	0.008	-	0.001	<0.01	-	-	0.001	0.002	-	-
Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	11	5.2	-	-	-	-
Iron (Filtered)	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	<0.005	0.081	-	-	-	-
Lead	mg/L	0.001	0.0066	0.0066			-	-	-	-	-	-	-	<0.001	-	-	0.004	0.011	-	-	0.003	0.008
Lead (Filtered)	mg/L	0.001	0.0066	0.0066			0.004	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.01	-	-	<0.001	<0.001	-	-
Magnesium	mg/L	0.5					390	1200	410	39	5.2	3.2	630	2100	<0.5	34	14	46	2.3	1.5	160	<0.5
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	0.2	0.19	-	-	0.17	<0.005
Manganese (Filtered)	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0001	0.0007				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	<0.0001
Mercury (Filtered)	mg/L	0.0001	0.0007				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	0.2	0.2			-	-	-	-	-	-	-	0.026	-	-	0.014	0.12	-	-	0.092	0.001
Nickel (Filtered)	mg/L	0.001	0.2	0.2			0.15	0.68	0.056	0.003	0.005	0.004	0.013	-	0.002	0.087	-	-	<0.001	0.001	-	-
Phosphorus	mg/L	0.01		0.01|0.03			0.5	0.99	0.72	0.02	0.08	0.02	0.23	0.03	0.05	2.8	0.25	11	0.02	0.05	<0.05	<0.05
Potassium	mg/L	0.5					32	160	35	4.9	3.4	0.7	140	380	0.7	360	70	650	5.4	13	17	12
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	<0.001	<0.001
Selenium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-
Vanadium	mg/L	0.005	0.16				-	-	-	-	-	-	-	-	-	-	0.005	0.18	-	-	-	-
Vanadium (Filtered)	mg/L	0.005	0.16				-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005
Zinc	mg/L	0.005	0.023				-	-	-	-	-	-	-	0.085	-	-	0.072	0.51	-	-	0.46	<0.005
Zinc (Filtered)	mg/L	0.005	0.023				0.5	0.93	0.21	0.061	0.053	0.042	0.082	-	0.022	0.22	-	-	0.01	0.005	-	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
a-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Aldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Aldrin + Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW2-12	GW2-3	GW3-12	GW3-3	GW8-12	GW8-3	GW9-12	GWILP	LMP02	LP02	SW STG1&2	SW STG5	GW17-12	GW17-30
						Sample Date	13/01/2022	13/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	15/02/2022	15/02/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	864296	864296
b-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
chlordane	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
d-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
DDT	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
DDT+DDE+DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endosulfan I	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endosulfan II	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endosulfan sulphate	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endrin	µg/L	0.2	0.01				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endrin aldehyde	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Endrin ketone	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
g-BHC (Lindane)	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Heptachlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Heptachlor epoxide	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Methoxychlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-	<0.2	<0.2
Toxaphene	mg/L	0.005					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	<0.005	-	-	<0.005	<0.005
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Bolstar (Sulprofos)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Chlorfenvinphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	-	-	<20	-	-	<20	<20
Chlorpyrifos	µg/L	2	0.04				<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Chlorpyrifos-methyl	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	-	-	<0.002	<0.002
Coumaphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	-	-	<20	-	-	<20	<20
Demeton-O	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Demeton-S	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Diazinon	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Dichlorvos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Dimethoate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Disulfoton	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Ethion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Ethoprop	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Fenitrothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Fensulfothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Fenthion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Malathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Merphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	-	-	<0.002	<0.002
Methyl parathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Mevinphos (Phosdrin)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Monocrotophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Naled (Dibrom)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Omethoate	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	-	-	<20	-	-	<20	<20
Phorate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Pyrazophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Ronnel	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Terbufos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Trichloronate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Tetrachlorvinphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	<0.002	-	-	<0.002	<0.002
Organotins																						
Tributyltin	µg/L	12.5					<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	-	<12.5	<12.5	<12.5	-	-
Other																						
Butyric Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Hexanoic Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					<0.00005	0.00015	<0.00005	<0.00005	<0.00005	<0.00005	-	<0.00005	<0.00005	0.0021	<0.00005	0.00055	<0.00005	<0.00005	<0.00005	<0.00005
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	<0.001
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,4-dinitrophenol	mg/L	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	<0.03	<0.03
2-methylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-nitrophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10
3-&4-methylphenol	µg/L	6					<6	<6	<6	<6	<6	<6	<6	<6	<6	-	-	-	-	-	<6	<6
4,6-Dinitro-2-methylphenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	<30	<30
4-chloro-3-methylphenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10
4-nitrophenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	<30	<30
Acenaphthene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW2-12	GW2-3	GW3-12	GW3-3	GW8-12	GW8-3	GW9-12	GWILP	LMP02	LP02	SW STG1&2	SW STG5	GW17-12	GW17-30
						Sample Date	13/01/2022	13/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	15/02/2022	15/02/2022
						Lab Report No.	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	856948	864296	864296
Acenaphthylene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Anthracene	µg/L	1	1.5				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benz(a)anthracene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benzo(a) pyrene	µg/L	1	0.4				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benzo(g,h,i)perylene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benzo(k)fluoranthene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Chrysene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Cresol Total	mg/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01
Dibenz(a,h)anthracene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Fluoranthene	µg/L	1	1.7				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Fluorene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Naphthalene	µg/L	1	90				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<10	<400	-	-	<1	<1
PAHs (Sum of total)	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenanthrene	µg/L	1	4				<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenol	µg/L	3	520				<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Pyrene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Pesticides																						
Parathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
Pirimiphos-methyl	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	<0.02	-	-	<0.02	<0.02
Phenolics																						
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Phenols (Total Halogenated)	mg/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01
Phenols (Total Non Halogenated)	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Polychlorinated Biphenyls																						
Arochlor 1016	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1221	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1232	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1242	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1248	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1254	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Arochlor 1260	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
PCBs (Sum of total)	µg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	<5	-	-	<5	<5
Solvents																						
Methyl Ethyl Ketone	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
4-Methyl-2-pentanone	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5
Acetone	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	0.006
Allyl chloride	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001
Carbon disulfide	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1
SVOCs																						
EPN	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	-	-	<2	<2
TPH																						
C10-C16	mg/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.24	4	-	-	<0.05	<0.05
C16-C34	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.2	42	-	-	<0.1	<0.1
C34-C40	mg/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	8.8	-	-	<0.1	<0.1
F2-NAPHTHALENE	mg/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	0.24	4	-	-	<0.05	<0.05
+C10 - C36 (Sum of total)	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	530	48,700	-	-	<100	<100
C6 - C9	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<800	-	-	<20	<20
C10 - C14	µg/L	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	-	130	2700	-	-	<50	<50
C15 - C28	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	400	26,000	-	-	<100	<100
C29-C36	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	<100	20,000	-	-	<100	<100
C10 - C40 (Sum of total)	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	-	440	54,800	-	-	<100	<100
C6-C10	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02	<0.8	-	-	<0.02	<0.02

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SW15	SWSTG1&2	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12
						Sample Date	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022
						Lab Report No.	864296	864296	864296	864296	864296	864296	864296	864296	864296	870606	870606	870606	870606	870606	870606	870606
Field																						
SWL	mbgl						1.27	1.56	1.31	-	-	-	-	-	-	2.4	2.34	1.34	1.77	1.54	-	-
pH	pH		6-8	6-8.5			5.62	9.48	9.23	**8.59**	**9.03**	**8.61**	**8.83**	**9.71**	8.33	9.75	11.76	8.23	6.1	5.43	6.26	6.3
Electrical conductivity	uS/cm						17868	181.4	1533	1366	649	695	505	616	264.9	13.25	7660	17.86	842	1280	506	740
Redox Potential	mV						173.6	49.4	95.4	82	46.6	89.4	80.1	48.1	76.4	2.7	-82.7	26.1	44.5	89.7	82.4	42.1
Dissolved Oxygen	%S			80-100			89.1	82.4	27.6	**138.4**	**197.3**	**45.4**	**117.9**	**107.8**	100	56.2	17.3	60.9	36.2	76.2	**75.5**	**108**
Temp	oC						31.1	33.7	32.2	38.5	34	29.9	34.6	33.6	35.8	29.7	29.8	30.7	33.1	31.4	32.2	31
Turbidity	ntu						14.8	7.46	9.7	650.2	796.4	674.2	157.5	102.7	32.48	14.5	16.48	12	9.7	11.8	487.6	362
PFAS																						
(8:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
(10:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
(4:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
(N-EtFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
(N-EtFOSA)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	-	-	-	-	<0.00005	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	-
(N-EtFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
(N-MeFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
(N-MeFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Sum of PFASs (n=30)*	UG/L	0.1					<0.1	0.29	0.96	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					<0.01	0.06	0.42	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					<0.05	0.29	0.93	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorobutanoic acid (PFBA)	UG/L	0.05					<0.05	0.07	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Perfluorodecanesulfonic acid (PFDS)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorodecanoic acid (PFDA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorododecanoic acid (PFDoDA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	0.01					<0.01	<0.01	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					<0.01	0.12	0.32	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	0.01	0.02	-	-
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					<0.01	0.02	0.03	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	0.01	0.02	-	-
Perfluorononanoic acid (PFNA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Perfluorooctanoate	UG/L	0.01			632		<0.01	<0.01	0.02	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		<0.01	0.06	0.4	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					<0.01	<0.01	0.02	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					<0.01	0.02	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	0.02	<0.01	-	-
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorotetradecanoic acid (PFTeDA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluorotridecanoic acid (PFTrDA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Perfluoroundecanoic acid (PFUnDA)	UG/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Sum (PFHxS + PFOS)*	UG/L	0.01					<0.01	0.18	0.72	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	0.01	0.02	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					<0.01	0.18	0.74	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	0.01	0.02	-	-
VFA																						
4-Methylvaleric acid*	MG/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Heptanoic acid*	MG/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Isovaleric acid*	MG/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Isobutyric acid*	MG/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Total VFA as Acetic Acid Equivalents*	MG/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
BTEX																						
Benzene	µg/L	1	900	900			<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Ethylbenzene	µg/L	1	110				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Toluene	µg/L	1	230				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Xylene (m & p)	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	<2	<2	<2	<2	<2	-	-
Xylene (o)	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Xylene Total	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
C6-C10 less BTEX (F1)	mg/L	0.02					<0.02	<0.02	<0.02	-	-	-	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	-	-
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,1,1-trichloroethane	µg/L	1	400				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,1,2,2-tetrachloroethane	µg/L	1	500				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,1,2-trichloroethane	µg/L	1	5800				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,1-dichloroethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,1-dichloroethene	µg/L	1	900				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,2,3-trichloropropane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,2-dichloroethane	µg/L	1	2600				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,2-dichloropropane	µg/L	1	1200				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SW15	SWSTG1&2	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12
						Sample Date	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022
						Lab Report No.	864296	864296	864296	864296	864296	864296	864296	864296	864296	870606	870606	870606	870606	870606	870606	870606
1,3-dichloropropane	µg/L	1	1400				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Bromochloromethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Bromodichloromethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Bromoform	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Carbon tetrachloride	µg/L	1	320				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Chlorodibromomethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Chloroethane	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Chloroform	µg/L	5	1100				<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Chloromethane	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
cis-1,2-dichloroethene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
cis-1,3-dichloropropene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Dibromomethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Dichloromethane	µg/L	1	5000				<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Trichloroethene	µg/L	1	400				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Tetrachloroethene	µg/L	1	100				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
trans-1,2-dichloroethene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
trans-1,3-dichloropropene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Vinyl chloride	µg/L	1	140				<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
1,3-Dinitrobenzene	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
2-Nitrotoluene	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
4-Nitrotoluene	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
m-Nitrotoluene	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Nitrobenzene	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
RDX	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,3-dichlorobenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,4-dichlorobenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
4-chlorotoluene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Bromobenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Chlorobenzene	µg/L	1	100				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Hexachlorobenzene	µg/L	0.2	0.2				<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Bromomethane	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Dichlorodifluoromethane	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Iodomethane	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Trichlorofluoromethane	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					<10	<10	<10	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-
2,4,6-trichlorophenol	µg/L	10					<10	<10	<10	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-
2,4-dichlorophenol	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
2,6-dichlorophenol	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
2-chlorophenol	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
Pentachlorophenol	µg/L	10	33				<10	<10	<10	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-
tetrachlorophenols	µg/L	30					<30	<30	<30	-	-	-	-	<30	-	<30	<30	<30	<30	<30	-	-
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Dinoseb	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
Glyphosate	mg/L	0.01					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					<20	120	130	170	<20	33	24	<20	55	24	<20	<20	170	99	280	47
Nitrite + Nitrate as N	mg/L	0.05					2	2.9	0.27	0.31	1.3	1.2	0.12	0.58	0.87	0.32	2.2	1.5	3.6	0.21	<0.05	0.46
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	58	<10	<10	<10	<10	<10
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	890,000	<20,000	<20,000	<20,000	<20,000	<20,000
Alkalinity (total) as CaCO3	mg/L	20					<20	120	130	170	<20	33	24	<20	55	24	940	<20	170	99	280	47
Ammonia as N	µg/L	10	1200	20			20	10	20	**1000**	**540**	**910**	**40**	**80**	**200**	170	280	30	<10	<10	**4600**	**200**
Chloride	mg/L	1					5200	120	290	190	190	190	97	130	21	3500	880	4900	91	300	270	160
COD	mg/L	25					210	200	45	170	28	<25	<25	<25	<25	52	<25	220	<25	<25	340	30
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.07	<0.05	<0.05	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					0.2	1.3	1.2	6.7	2.4	28	1	2.8	2	<0.2	<0.2	0.5	0.3	<0.2	19	0.7
Nitrate (as N)	mg/L	0.02					2	2.9	0.27	0.23	1.2	1.2	0.12	0.58	0.82	0.31	2.1	1.5	3.5	0.21	<0.05	0.43
Nitrite (as N)	mg/L	0.02					<0.02	<0.02	<0.02	0.08	0.08	0.04	<0.02	<0.02	0.05	<0.02	0.07	<0.02	<0.02	<0.02	<0.05	0.03

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SW15	SWSTG1&2	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12
						Sample Date	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022
						Lab Report No.	864296	864296	864296	864296	864296	864296	864296	864296	864296	870606	870606	870606	870606	870606	870606	870606
Nitrogen (Total)	µg/L	200		300			2200	4200	1470	7010	3700	29,200	1120	3380	2870	320	2200	2000	3900	210	19,000	1160
Phosphate (as P)	mg/L	0.01					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	mg/L	0.01		0.03			<0.05	<0.05	<0.05	0.73	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.01	0.03	0.04	0.01	2.1	0.04
Reactive Phosphorus as P	mg/L	0.01		0.01			0.07	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.01	0.02	0.07	0.02	0.49	0.01
Sodium	mg/L	0.5					2700	21	230	55	95	92	50	63	13	1900	440	2600	78	190	84	84
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	1900	440	2600	78	190	-	-
Sulphate	mg/L	5					480	110	75	10	53	42	25	54	7.5	360	340	470	89	64	9.9	26
TDS	mg/L	10					12,000	480	710	830	470	500	270	300	140	8700	3500	12,000	540	720	1200	470
TOC	mg/L	5					<5	14	30	59	12	7.1	6.2	7.2	5.7	<5	<5	<5	7.7	8.9	130	10
TSS	mg/L	1		0.01|10			120	21	<5	94	22	26	44	16	15	5.6	7.1	40	<5	79	36	60
MAH																						
1,2,4-trimethylbenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
1,3,5-trimethylbenzene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Total MAH	mg/L	0.003					<0.003	<0.003	<0.003	-	-	-	-	<0.003	-	<0.003	<0.003	<0.003	<0.003	<0.003	-	-
Isopropylbenzene	µg/L	1	40				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Styrene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.001					0.002	0.001	<0.001	-	-	-	-	<0.001	-	<0.001	<0.001	0.002	0.002	0.001	-	-
Arsenic (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	0.001	<0.001	-	-
Barium	mg/L	0.02					-	-	-	-	-	-	-	-	-	0.1	0.24	0.14	0.24	0.04	-	-
Barium (Filtered)	mg/L	0.02					0.11	0.04	0.04	-	-	-	-	0.02	-	0.1	0.22	0.1	0.13	0.03	-	-
Beryllium	mg/L	0.001					0.004	<0.001	<0.001	-	-	-	-	<0.001	-	0.001	<0.001	<0.001	<0.001	0.002	-	-
Beryllium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-
Boron	mg/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (Filtered)	mg/L	0.05					-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Cadmium	mg/L	0.0002	0.014	0.014			0.0018	<0.0002	<0.0002	-	-	-	-	<0.0002	-	0.001	<0.0002	0.0025	<0.0002	<0.0002	-	-
Cadmium (Filtered)	mg/L	0.0002	0.014	0.014			-	-	-	-	-	-	-	-	-	0.0009	<0.0002	0.0019	<0.0002	<0.0002	-	-
Calcium	mg/L	0.5					420	17	23	45	20	19	9.2	16	16	240	410	390	49	16	63	21
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	240	410	390	49	16	-	-
Chromium (hexavalent)	mg/L	0.005	0.02	0.02			<0.005	<0.005	0.084	-	-	-	-	<0.005	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001					-	-	-	-	-	-	-	-	-	<0.001	0.01	0.008	0.001	<0.001	0.008	0.007
Chromium (III+VI) (Filtered)	mg/L	0.001					-	-	-	0.001	0.001	<0.001	<0.001	-	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	-	-
Cobalt	mg/L	0.001	0.014	0.014			0.015	<0.001	0.001	-	-	-	-	0.005	-	0.01	<0.001	0.016	<0.001	<0.001	-	-
Cobalt (Filtered)	mg/L	0.001	0.014	0.014			-	-	-	-	-	-	-	-	-	0.008	<0.001	0.012	<0.001	<0.001	-	-
Copper	mg/L	0.001	0.003	0.003			0.003	0.004	0.003	-	-	-	-	0.003	-	0.001	0.003	0.005	0.005	0.001	0.01	0.005
Copper (Filtered)	mg/L	0.001	0.003	0.003			-	-	-	0.003	0.005	0.002	0.001	-	0.001	0.001	0.002	0.001	0.004	0.002	-	-
Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	0.18	<0.05	2.7	0.33	<0.05	-	-
Iron (Filtered)	mg/L	0.05					<0.05	<0.05	0.08	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.001	0.0066	0.0066			0.009	0.002	<0.001	-	-	-	-	<0.001	-	0.004	0.009	0.024	0.001	<0.001	0.009	0.004
Lead (Filtered)	mg/L	0.001	0.0066	0.0066			-	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	0.004	0.006	0.008	<0.001	<0.001	-	-
Magnesium	mg/L	0.5					320	2.4	16	21	9.9	11	5.1	7.7	2.7	210	<1	330	11	13	35	11
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	210	<1	330	11	13	-	-
Manganese	mg/L	0.005					0.26	<0.005	0.019	-	-	-	-	0.18	-	0.18	<0.005	0.29	0.054	0.013	-	-
Manganese (Filtered)	mg/L	0.005					-	-	-	-	-	-	-	-	-	0.16	<0.005	0.22	<0.005	0.011	-	-
Mercury	mg/L	0.0001	0.0007				<0.0001	<0.0001	<0.0001	-	-	-	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-
Mercury (Filtered)	mg/L	0.0001	0.0007				-	-	-	-	-	-	-	-	-	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	-	-
Nickel	mg/L	0.001	0.2	0.2			0.076	0.002	0.005	-	-	-	-	0.003	-	0.095	0.002	0.11	0.003	0.005	0.006	0.004
Nickel (Filtered)	mg/L	0.001	0.2	0.2			-	-	-	0.002	0.002	0.001	<0.001	-	<0.001	0.086	0.002	0.077	0.002	0.01	-	-
Phosphorus	mg/L	0.01		0.01|0.03			<0.05	<0.05	<0.05	0.73	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.01	0.03	0.04	0.01	2.1	0.04
Potassium	mg/L	0.5					20	3.2	1	120	12	11	7.2	2.1	7.5	18	13	20	19	3	190	11
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	18	13	20	19	3	-	-
Selenium	mg/L	0.001					0.004	<0.001	0.001	-	-	-	-	<0.001	-	<0.001	0.001	<0.001	0.001	0.002	-	-
Selenium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	<0.001	0.001	<0.001	<0.001	<0.001	-	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005	0.16				-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	0.015	<0.005	-	-
Vanadium (Filtered)	mg/L	0.005	0.16				<0.005	<0.005	<0.005	-	-	-	-	<0.005	-	<0.005	<0.005	<0.005	0.009	<0.005	-	-
Zinc	mg/L	0.005	0.023				0.28	0.018	0.025	-	-	-	-	0.021	-	0.48	0.01	0.43	0.008	0.006	0.038	0.018
Zinc (Filtered)	mg/L	0.005	0.023				-	-	-	<0.005	0.013	<0.005	<0.005	-	0.009	0.42	0.008	0.29	<0.005	0.007	-	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
a-BHC	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Aldrin	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Aldrin + Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SW15	SWSTG1&2	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12
						Sample Date	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022
						Lab Report No.	864296	864296	864296	864296	864296	864296	864296	864296	864296	870606	870606	870606	870606	870606	870606	870606
b-BHC	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
chlordane	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
d-BHC	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
DDD	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
DDT	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
DDT+DDE+DDD	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endosulfan sulphate	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endrin	µg/L	0.2	**0.01**				<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
g-BHC (Lindane)	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Heptachlor	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	0.2					<0.2	<0.2	<0.2	-	-	-	-	<0.2	-	-	-	-	-	-	-	-
Toxaphene	mg/L	0.005					<0.005	<0.005	<0.005	-	-	-	-	<0.005	-	-	-	-	-	-	-	-
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Bolstar (Sulprofos)	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Chlorfenvinphos	µg/L	20					<20	<20	<20	-	-	-	-	<20	-	-	-	-	-	-	-	-
Chlorpyrifos	µg/L	2	**0.04**				<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Chlorpyrifos-methyl	mg/L	0.002					<0.002	<0.002	<0.002	-	-	-	-	<0.002	-	-	-	-	-	-	-	-
Coumaphos	µg/L	20					<20	<20	<20	-	-	-	-	<20	-	-	-	-	-	-	-	-
Demeton-O	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Demeton-S	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Diazinon	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Dichlorvos	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Dimethoate	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Disulfoton	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Ethion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Ethoprop	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Fenitrothion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Fensulfothion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Fenthion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Malathion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Merphos	mg/L	0.002					<0.002	<0.002	<0.002	-	-	-	-	<0.002	-	-	-	-	-	-	-	-
Methyl parathion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Mevinphos (Phosdrin)	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Monocrotophos	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Naled (Dibrom)	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Omethoate	µg/L	20					<20	<20	<20	-	-	-	-	<20	-	-	-	-	-	-	-	-
Phorate	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Pyrazophos	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Ronnel	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Terbufos	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Trichloronate	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Tetrachlorvinphos	mg/L	0.002					<0.002	<0.002	<0.002	-	-	-	-	<0.002	-	-	-	-	-	-	-	-
Organotins																						
Tributyltin	µg/L	12.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																						
Butyric Acid	mg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Hexanoic Acid	mg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					<0.00005	<0.00005	0.00015	-	-	-	-	<0.00005	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	-
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
2,4-dinitrophenol	mg/L	0.03					<0.03	<0.03	<0.03	-	-	-	-	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	-	-
2-methylphenol	µg/L	3					<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
2-nitrophenol	µg/L	10					<10	<10	<10	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-
3-&4-methylphenol	µg/L	6					<6	<6	<6	-	-	-	-	<6	-	<6	<6	<6	<6	<6	-	-
4,6-Dinitro-2-methylphenol	µg/L	30					<30	<30	<30	-	-	-	-	<30	-	<30	<30	<30	<30	<30	-	-
4-chloro-3-methylphenol	µg/L	10					<10	<10	<10	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-
4-nitrophenol	µg/L	30					<30	<30	<30	-	-	-	-	<30	-	<30	<30	<30	<30	<30	-	-
Acenaphthene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SW15	SWSTG1&2	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12
						Sample Date	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022	10/03/2022
						Lab Report No.	864296	864296	864296	864296	864296	864296	864296	864296	864296	870606	870606	870606	870606	870606	870606	870606
Acenaphthylene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Anthracene	µg/L	1	1.5				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Benz(a)anthracene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Benzo(a) pyrene	µg/L	1	0.4				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Benzo(g,h,i)perylene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Benzo(k)fluoranthene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Chrysene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Cresol Total	mg/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Dibenz(a,h)anthracene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Fluoranthene	µg/L	1	1.7				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Fluorene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Indeno(1,2,3-c,d)pyrene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Naphthalene	µg/L	1	90				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
PAHs (Sum of total)	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Phenanthrene	µg/L	1	4				<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Phenol	µg/L	3	520				<3	<3	<3	-	-	-	-	<3	-	<3	<3	<3	<3	<3	-	-
Pyrene	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
Pesticides																						
Parathion	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
Pirimiphos-methyl	mg/L	0.02					<0.02	<0.02	<0.02	-	-	-	-	<0.02	-	-	-	-	-	-	-	-
Phenolics																						
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
Phenols (Total Halogenated)	mg/L	0.01					<0.01	<0.01	<0.01	-	-	-	-	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Phenols (Total Non Halogenated)	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Polychlorinated Biphenyls																						
Arochlor 1016	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1221	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1232	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1242	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1248	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1254	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Arochlor 1260	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
PCBs (Sum of total)	µg/L	5					<5	<5	<5	-	-	-	-	<5	-	-	-	-	-	-	-	-
Solvents																						
Methyl Ethyl Ketone	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
4-Methyl-2-pentanone	µg/L	1					<5	<5	<5	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-
Acetone	mg/L	0.001					<0.005	<0.005	<0.005	-	-	-	-	0.005	-	<0.005	0.008	<0.005	<0.005	<0.005	-	-
Allyl chloride	mg/L	0.001					<0.001	<0.001	<0.001	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-
Carbon disulfide	µg/L	1					<1	<1	<1	-	-	-	-	<1	-	<1	<1	<1	<1	<1	-	-
SVOCs																						
EPN	µg/L	2					<2	<2	<2	-	-	-	-	<2	-	-	-	-	-	-	-	-
TPH																						
C10-C16	mg/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
C16-C34	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
C34-C40	mg/L	0.1					<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
F2-NAPHTHALENE	mg/L	0.05					<0.05	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-
+C10 - C36 (Sum of total)	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
C6 - C9	µg/L	20					<20	<20	<20	-	-	-	-	<20	-	<20	<20	<20	<20	<20	-	-
C10 - C14	µg/L	50					<50	<50	<50	-	-	-	-	<50	-	<50	<50	<50	<50	<50	-	-
C15 - C28	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
C29-C36	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
C10 - C40 (Sum of total)	µg/L	100					<100	<100	<100	-	-	-	-	<100	-	<100	<100	<100	<100	<100	-	-
C6-C10	mg/L	0.02					<0.02	<0.02	<0.02	-	-	-	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	SW13	SW14	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SWStg1&2	GW SUMP	GW10-12	GW11-12	GW12-12
						Sample Date	10/03/2022	10/03/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	870606	870606	879003	879003	879003	879003	879003	879003	879003	879003	879003	879003	887921	887921	887921	887921
Field																						
SWL	mbgl						-	-	2.22	2.1	1.2	1.71	1.28	-	-	-	-	-	-	4.71	4.84	4.36
pH	pH		6-8	6-8.5			6.82	5.73	7.75	11.59	7.86	7.71	6.92	7.31	8.25	6.59	7.76	6.62	8.33	5.35	6.6	4.92
Electrical conductivity	uS/cm						740	249	13649	6485	17922	166.9	756	676	967	1430	226.1	225.6	1407	81.4	941	84.2
Redox Potential	mV						39	32.9	70.9	65.2	69.5	59.8	47.9	49.2	48.4	56.7	54.5	66	14.5	54.3	-250.9	38.9
Dissolved Oxygen	%S			80-100			104.2	91	65	26.2	57.3	70.5	39.4	27.5	116.1	49.8	77.3	48.2	90.4	82.7	9.2	63
Temp	oC						31	31.2	30.7	31	30.8	33.7	32.5	29	28.5	27.5	28.2	26	30.4	32.7	33.9	32.3
Turbidity	ntu						389.1	96.4	14.2	13.8	23.7	4.9	8.6	442	576.1	627.9	716.3	197.3	-	-	-	-
PFAS																						
(8:2 FTSA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
(10:2 FTSA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
(4:2 FTSA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
(N-EtFOSAA)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
(N-EtFOSA)	mg/L	0.00005					-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	-	-	-	-	-	<0.00005	<0.00005	<0.00005
(N-EtFOSE)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
(N-MeFOSAA)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
(N-MeFOSE)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
Sum of PFASs (n=30)*	UG/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	0.28	0.4	<0.1
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.12	0.07	0.02
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	0.28	0.39	<0.05
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	0.01	<0.01
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorobutanoic acid (PFBA)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	0.06	<0.05
Perfluorodecanesulfonic acid (PFDS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorodecanoic acid (PFDA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.02	0.03	<0.01
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	0.02	-	-	-	-	-	-	0.06	0.06	0.01
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.03	0.06	<0.01
Perfluorononanoic acid (PFNA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05
Perfluorooctanoate	UG/L	0.01			632		-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.01	0.02	<0.01
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.11	0.05	0.02
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	0.01	<0.01
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	0.05	0.1	<0.01
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluorotridecanoic acid (PFTrDA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Sum (PFHxS + PFOS)*	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	0.02	-	-	-	-	-	-	0.17	0.11	0.03
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	0.02	-	-	-	-	-	-	0.18	0.13	0.03
VFA																						
4-Methylvaleric acid*	MG/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Heptanoic acid*	MG/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Isovaleric acid*	MG/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Isobutyric acid*	MG/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Total VFA as Acetic Acid Equivalents*	MG/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
BTEX																						
Benzene	µg/L	1	900	900			-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Ethylbenzene	µg/L	1	110				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Toluene	µg/L	1	230				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Xylene (m & p)	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Xylene (o)	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Xylene Total	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
C6-C10 less BTEX (F1)	mg/L	0.02					-	-	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	<0.02	4	<0.02
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,1,1-trichloroethane	µg/L	1	400				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	1	500				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,1,2-trichloroethane	µg/L	1	5800				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,1-dichloroethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,1-dichloroethene	µg/L	1	900				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,2-dichloroethane	µg/L	1	2600				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,2-dichloropropane	µg/L	1	1200				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	SW13	SW14	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SWStg1&2	GW SUMP	GW10-12	GW11-12	GW12-12
						Sample Date	10/03/2022	10/03/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	870606	870606	879003	879003	879003	879003	879003	879003	879003	879003	879003	879003	887921	887921	887921	887921
1,3-dichloropropane	µg/L	1	1400				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Bromochloromethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Bromoform	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	1	320				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Chloroethane	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Chloroform	µg/L	5	1100				-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Chloromethane	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
cis-1,3-dichloropropene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Dibromomethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Dichloromethane	µg/L	1	5000				-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	1	400				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1	100				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
trans-1,2-dichloroethene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
trans-1,3-dichloropropene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	1	140				-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					-	-	<0.1	<0.2	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					-	-	0.3	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
2-Nitrotoluene	µg/L	100					-	-	<100	<100	<100	<100	<100	-	-	-	-	-	-	-	-	-
4-Nitrotoluene	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
m-Nitrotoluene	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	100					-	-	<100	<100	<100	<100	<100	-	-	-	-	-	-	-	-	-
RDX	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,3-dichlorobenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,4-dichlorobenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
4-chlorotoluene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Bromobenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/L	1	100				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	0.2	0.2				-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Bromomethane	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Iodomethane	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					-	-	<10	<10	<10	<10	<10	-	-	-	-	-	-	<10	<10	<10
2,4,6-trichlorophenol	µg/L	10					-	-	<10	<10	<10	<10	<10	-	-	-	-	-	-	<10	<10	<10
2,4-dichlorophenol	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
2,6-dichlorophenol	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
2-chlorophenol	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
Pentachlorophenol	µg/L	10	33				-	-	<10	<10	<10	<10	<10	-	-	-	-	-	-	<10	<10	<10
tetrachlorophenols	µg/L	30					-	-	<30	<30	<30	<30	<30	-	-	-	-	-	-	<30	<30	<30
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Dinoseb	µg/L	100					-	-	<100	<100	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
Glyphosate	mg/L	0.01					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					48	<20	25	<20	<20	140	94	160	93	89	<20	140	230	<20	220	<20
Nitrite + Nitrate as N	mg/L	0.05					0.45	0.09	0.36	2	0.88	2.5	3.6	<0.05	0.08	2.4	0.23	0.64	<0.05	0.95	<0.05	0.4
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	<10	110	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	<20,000	730,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000
Alkalinity (total) as CaCO3	mg/L	20					48	<20	25	840	<20	140	94	160	93	89	<20	140	230	<20	220	<20
Ammonia as N	µg/L	10	1200	20			160	<10	<10	50	<10	<10	<10	1800	360	240	70	710	810	<10	<10	<10
Chloride	mg/L	1					160	41	4000	930	7100	64	130	110	200	290	45	24	210	9	110	17
COD	mg/L	25					66	42	83	<25	120	<25	52	110	<25	40	<25	<25	230	<25	680	<25
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					1	0.9	<0.2	0.5	<0.2	4.1	1.2	<0.2	1.9	0.4	0.9	1	7.1	1.1	1	0.3
Nitrate (as N)	mg/L	0.02					0.42	0.08	0.36	1.9	0.88	2.5	3.6	<0.02	0.07	2.3	0.22	0.6	<0.02	0.94	<0.02	0.39
Nitrite (as N)	mg/L	0.02					0.03	<0.02	<0.02	0.08	<0.02	<0.02	<0.02	0.02	<0.02	0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	SW13	SW14	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SWStg1&2	GW SUMP	GW10-12	GW11-12	GW12-12
						Sample Date	10/03/2022	10/03/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	870606	870606	879003	879003	879003	879003	879003	879003	879003	879003	879003	879003	887921	887921	887921	887921
Nitrogen (Total)	µg/L	200		**300**			**1450**	**990**	360	2500	880	6600	4800	<200	**1980**	**2800**	**1130**	**1640**	**7100**	2050	1000	700
Phosphate (as P)	mg/L	0.01					-	-	0.03	<0.01	0.03	0.06	0.01	0.65	0.03	0.06	<0.01	0.01	0.91	0.02	0.16	0.04
Phosphorus	mg/L	0.01		**0.03**			**0.04**	0.02	0.03	<0.01	0.03	0.06	0.01	**0.65**	**0.03**	**0.06**	<0.01	0.01	**0.91**	0.02	0.16	0.04
Reactive Phosphorus as P	mg/L	0.01		**0.01**			0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.52**	<0.01	<0.01	<0.01	<0.01	**0.1**	<0.01	<0.01	0.01
Sodium	mg/L	0.5					91	25	1900	460	3000	84	130	33	110	160	22	18	70	3.6	56	18
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5					26	15	380	370	600	64	46	6.2	27	100	11	5.3	6.6	<5	18	18
TDS	mg/L	10					460	200	31,000	2500	51,000	290	190	410	410	650	320	24	960	70	390	480
TOC	mg/L	5					10	9.8	<5	<5	<5	<5	6.6	43	8.9	14	<5	5.8	68	<5	190	<5
TSS	mg/L	1		**0.01|10**			**81**	10	<5	13	170	9.2	7.2	**58**	**25**	**42**	**42**	5.6	**120**	<5	6.2	<5
MAH																						
1,2,4-trimethylbenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
1,3,5-trimethylbenzene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Total MAH	mg/L	0.003					-	-	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	-	-	-	-	-	-	-
Isopropylbenzene	µg/L	1	**40**				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.001					-	-	<0.001	<0.001	<0.001	0.002	<0.001	-	-	-	-	-	-	-	-	-
Arsenic (Filtered)	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.02					-	-	0.09	0.13	0.11	0.14	0.03	-	-	-	-	-	-	-	-	-
Barium (Filtered)	mg/L	0.02					-	-	0.09	0.16	0.1	0.03	<0.02	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001					-	-	0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Beryllium (Filtered)	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Boron	mg/L	0.05					<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05
Boron (Filtered)	mg/L	0.05					-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	-	-	-	-
Cadmium	mg/L	0.0002	**0.014**	**0.014**			-	-	0.0009	<0.0002	0.0023	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-
Cadmium (Filtered)	mg/L	0.0002	**0.014**	**0.014**			-	-	0.0008	<0.0002	0.002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-
Calcium	mg/L	0.5					20	7.5	250	440	530	60	22	30	58	44	9.4	15	61	2.1	40	66
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (hexavalent)	mg/L	0.005	**0.02**	**0.02**			-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001					0.006	0.002	-	-	-	-	-	0.004	0.004	0.007	0.018	<0.001	0.006	<0.001	0.028	<0.001
Chromium (III+VI) (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-
Cobalt	mg/L	0.001	**0.014**	**0.014**			-	-	0.009	<0.001	0.013	0.001	<0.001	-	-	-	-	-	-	-	-	-
Cobalt (Filtered)	mg/L	0.001	**0.014**	**0.014**			-	-	0.007	<0.001	0.011	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.001	**0.003**	**0.003**			**0.005**	0.002	0.001	0.003	0.003	0.005	0.002	**0.007**	**0.005**	**0.008**	**0.006**	0.002	**0.014**	0.015	0.01	0.006
Copper (Filtered)	mg/L	0.001	**0.003**	**0.003**			-	-	0.002	0.002	0.001	0.002	<0.001	-	-	-	-	0.001	-	-	-	-
Iron	mg/L	0.05					-	-	0.11	1.3	0.72	2	1	-	-	-	-	-	-	-	-	-
Iron (Filtered)	mg/L	0.05					-	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.001	**0.0066**	**0.0066**			0.004	0.002	0.005	0.011	0.018	0.003	0.002	0.005	0.002	0.004	**0.012**	<0.001	**0.015**	0.002	0.003	0.001
Lead (Filtered)	mg/L	0.001	**0.0066**	**0.0066**			-	-	0.005	0.01	0.012	<0.001	<0.001	-	-	-	-	<0.001	-	-	-	-
Magnesium	mg/L	0.5					11	3.2	200	4.5	390	14	26	12	15	25	4	3.5	25	<0.5	6.9	3.9
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.005					-	-	0.17	0.056	0.25	0.066	0.021	-	-	-	-	-	-	-	-	-
Manganese (Filtered)	mg/L	0.005					-	-	0.15	<0.005	0.21	<0.005	<0.005	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0001	**0.0007**				-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	-	-
Mercury (Filtered)	mg/L	0.0001	**0.0007**				-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	**0.2**	**0.2**			0.004	0.002	0.095	0.003	0.09	0.004	0.006	0.004	0.004	0.005	0.004	0.001	0.006	0.001	0.003	0.001
Nickel (Filtered)	mg/L	0.001	**0.2**	**0.2**			-	-	0.084	0.001	0.079	0.002	0.003	-	-	-	-	0.004	-	-	-	-
Phosphorus	mg/L	0.01		**0.01|0.03**			**0.04**	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	0.5					10	8.3	16	9.9	22	18	<1	71	14	29	4.3	8	170	<0.5	64	6.6
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	0.001	-	-	-	-	-	-	-	-	-
Selenium (Filtered)	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005	**0.16**				-	-	<0.005	<0.005	<0.005	0.021	0.008	-	-	-	-	-	-	-	-	-
Vanadium (Filtered)	mg/L	0.005	**0.16**				-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.005	**0.023**				0.021	0.007	0.5	0.024	0.39	0.02	0.023	**0.024**	0.017	0.016	**0.025**	0.007	**0.069**	0.026	0.03	0.026
Zinc (Filtered)	mg/L	0.005	**0.023**				-	-	0.46	0.006	0.35	0.007	0.008	-	-	-	-	<0.005	-	-	-	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
a-BHC	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Aldrin	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Aldrin + Dieldrin	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	SW13	SW14	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SWStg1&2	GW SUMP	GW10-12	GW11-12	GW12-12
						Sample Date	10/03/2022	10/03/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	870606	870606	879003	879003	879003	879003	879003	879003	879003	879003	879003	879003	887921	887921	887921	887921
b-BHC	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
chlordane	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
d-BHC	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
DDD	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
DDT	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
DDT+DDE+DDD	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Dieldrin	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endosulfan I	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endosulfan II	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endosulfan sulphate	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endrin	µg/L	0.2	**0.01**				-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endrin aldehyde	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Endrin ketone	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
g-BHC (Lindane)	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Heptachlor	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Heptachlor epoxide	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Methoxychlor	µg/L	0.2					-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	<0.2	<0.2	<0.2
Toxaphene	mg/L	0.005					-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Bolstar (Sulprofos)	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Chlorfenvinphos	µg/L	20					-	-	<20	<20	<20	<20	<20	-	-	-	-	-	-	<20	<20	<20
Chlorpyrifos	µg/L	2	**0.04**				-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Chlorpyrifos-methyl	mg/L	0.002					-	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	<0.002	<0.002	<0.002
Coumaphos	µg/L	20					-	-	<20	<20	<20	<20	<20	-	-	-	-	-	-	<20	<20	<20
Demeton-O	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Demeton-S	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Diazinon	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Dichlorvos	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Dimethoate	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Disulfoton	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Ethion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Ethoprop	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Fenitrothion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Fensulfothion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Fenthion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Malathion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Merphos	mg/L	0.002					-	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	<0.002	<0.002	<0.002
Methyl parathion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Mevinphos (Phosdrin)	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Monocrotophos	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Naled (Dibrom)	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Omethoate	µg/L	20					-	-	<20	<20	<20	<20	<20	-	-	-	-	-	-	<20	<20	<20
Phorate	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Pyrazophos	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Ronnel	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Terbufos	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Trichloronate	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Tetrachlorvinphos	mg/L	0.002					-	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	<0.002	<0.002	<0.002
Organotins																						
Tributyltin	µg/L	12.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																						
Butyric Acid	mg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Hexanoic Acid	mg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	-	-	-	-	-	<0.00005	<0.00005	<0.00005
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	<0.001
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
2,4-dinitrophenol	mg/L	0.03					-	-	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-	<0.03	<0.03	<0.03
2-methylphenol	µg/L	3					-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
2-nitrophenol	µg/L	10					-	-	<10	<10	<10	<10	<10	-	-	-	-	-	-	<10	<10	<10
3-&4-methylphenol	µg/L	6					-	-	<6	<6	<6	<6	<6	-	-	-	-	-	-	<6	<6	<6
4,6-Dinitro-2-methylphenol	µg/L	30					-	-	<30	<30	<30	<30	<30	-	-	-	-	-	-	<30	<30	<30
4-chloro-3-methylphenol	µg/L	10					-	-	<10	<10	<10	<10	<10	-	-	-	-	-	-	<10	<10	<10
4-nitrophenol	µg/L	30					-	-	<30	<30	<30	<30	<30	-	-	-	-	-	-	<30	<30	<30
Acenaphthene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	SW13	SW14	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GWSUMP	SW12	SW13	SW14	SWStg1&2	GW SUMP	GW10-12	GW11-12	GW12-12
						Sample Date	10/03/2022	10/03/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	8/04/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	870606	870606	879003	879003	879003	879003	879003	879003	879003	879003	879003	879003	887921	887921	887921	887921
Acenaphthylene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Anthracene	µg/L	1	1.5				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Benz(a)anthracene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Benzo(a) pyrene	µg/L	1	0.4				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Benzo(g,h,i)perylene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Benzo(k)fluoranthene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Chrysene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Cresol Total	mg/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Dibenz(a,h)anthracene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Fluoranthene	µg/L	1	1.7				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Fluorene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Naphthalene	µg/L	1	90				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
PAHs (Sum of total)	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Phenanthrene	µg/L	1	4				-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Phenol	µg/L	3	520				-	-	<3	<3	<3	<3	<3	-	-	-	-	-	-	<3	<3	<3
Pyrene	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	<1
Pesticides																						
Parathion	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
Pirimiphos-methyl	mg/L	0.02					-	-	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02
Phenolics																						
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100					-	-	<100	<100	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
Phenols (Total Halogenated)	mg/L	0.01					-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01
Phenols (Total Non Halogenated)	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1
Polychlorinated Biphenyls																						
Arochlor 1016	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1221	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1232	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1242	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1248	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1254	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Arochlor 1260	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
PCBs (Sum of total)	µg/L	5					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	<5
Solvents																						
Methyl Ethyl Ketone	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	µg/L	1					-	-	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-
Acetone	mg/L	0.001					-	-	<0.005	0.015	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	0.001					-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-
Carbon disulfide	µg/L	1					-	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-
SVOCs																						
EPN	µg/L	2					-	-	<2	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	<2
TPH																						
C10-C16	mg/L	0.05					-	-	<0.05	0.14	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	0.05	<0.05
C16-C34	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1
C34-C40	mg/L	0.1					-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	<0.1	<0.1	<0.1
F2-NAPHTHALENE	mg/L	0.05					-	-	<0.05	0.14	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	0.05	<0.05
+C10 - C36 (Sum of total)	µg/L	100					-	-	<100	190	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
C6 - C9	µg/L	20					-	-	<20	<20	<20	<20	<20	-	-	-	-	-	-	<20	3600	<20
C10 - C14	µg/L	50					-	-	<50	<50	<50	<50	<50	-	-	-	-	-	-	<50	60	<50
C15 - C28	µg/L	100					-	-	<100	200	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
C29-C36	µg/L	100					-	-	<100	<100	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
C10 - C40 (Sum of total)	µg/L	100					-	-	<100	140	<100	<100	<100	-	-	-	-	-	-	<100	<100	<100
C6-C10	mg/L	0.02					-	-	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	<0.02	4	<0.02

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
						Sample Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Field																						
SWL	mbgl						3.97	8.35	4.07	2.59	3.73	6.87	3.32	2.4	4.07	2.78	-	Very thick oily s	-	-	-	-
pH	pH		6-8	6-8.5			5.76	5.4	6.42	5.59	5.66	5.48	6.52	5.91	6.17	4.36	7.72		7.63	8.51	7.7	6.49
Electrical conductivity	uS/cm						71.1	422.1	3403	439	362.1	256	25821	3975	506	282.8	12423		3258	9.24	735	50.7
Redox Potential	mV						6.5	-115.6	61.3	61.4	102.9	101.2	63.7	49.7	3.2	121.6	-214		8.7	0.8	-0.2	38.5
Dissolved Oxygen	%S			80-100			53.3	56.1	62.4	16	55.1	53.2	66.2	52.6	56.7	28.8	23.4		77.2	127.4	81.6	69.8
Temp	oC						31.6	32.4	33.2	32.6	32.2	33.4	33.9	33.4	32.6	31.3	27.9		32.9	33.8	33.1	28.8
Turbidity	ntu						-	-	-	-	-	-	-	-	-	-	489.1		597.3	783.4	698.3	147.8
PFAS																						
(8:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.34	-	-	-	-
(10:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	-	-	-
(4:2 FTSA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	-	-	-
(N-EtFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
(N-EtFOSA)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	<0.00005	-	-	-	-
(N-EtFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
(N-MeFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
(N-MeFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
Sum of PFASs (n=30)*	UG/L	0.1					<0.1	0.66	<0.1	<0.1	0.55	<0.1	<0.1	0.15	<0.1	1.54	-	18.84	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					<0.01	0.16	<0.01	<0.01	0.12	<0.01	<0.01	0.01	<0.01	0.07	-	1.83	-	-	-	-
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					<0.05	0.66	<0.05	<0.05	0.53	<0.05	<0.05	0.14	<0.05	1.52	-	12.56	-	-	-	-
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					<0.01	0.18	<0.01	0.01	0.05	<0.01	<0.01	0.07	<0.01	0.55	-	3.5	-	-	-	-
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	-	-	-
Perfluorobutanoic acid (PFBA)	UG/L	0.05					<0.05	0.07	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	0.22	-	0.84	-	-	-	-
Perfluorodecanesulfonic acid (PFDS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	-	-	-
Perfluorodecanoic acid (PFDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.14	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.02	-	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.02	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					<0.01	0.02	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.06	-	0.42	-	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					<0.01	0.06	<0.01	<0.01	0.09	<0.01	<0.01	0.02	<0.01	0.1	-	0.46	-	-	-	-
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					<0.01	0.09	<0.01	<0.01	0.07	<0.01	<0.01	0.02	<0.01	0.26	-	2.9	-	-	-	-
Perfluorononanoic acid (PFNA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	3.9	-	-	-	-
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	-	-	-
Perfluorooctanoate	UG/L	0.01			632		<0.01	0.06	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	0.06	-	1.2	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		<0.01	0.1	<0.01	<0.01	0.04	<0.01	<0.01	0.01	<0.01	0.01	-	0.63	-	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	-	0.07	-	-	-	-
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					<0.01	0.08	<0.01	<0.01	0.09	<0.01	<0.01	0.02	<0.01	0.26	-	1.3	-	-	-	-
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	-	0.24	-	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.03	-	-	-	-
Perfluorotridecanoic acid (PFTrDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	0.36	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	1.5	-	-	-	-
Sum (PFHxS + PFOS)*	UG/L	0.01					<0.01	0.16	<0.01	<0.01	0.13	<0.01	<0.01	0.03	<0.01	0.11	-	1.09	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					<0.01	0.22	<0.01	<0.01	0.21	<0.01	<0.01	0.03	<0.01	0.17	-	2.29	-	-	-	-
VFA																						
4-Methylvaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptanoic acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isovaleric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isobutyric acid*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VFA as Acetic Acid Equivalents*	MG/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BTEX																						
Benzene	µg/L	1	900	900			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<200	-	-	-	-
Ethylbenzene	µg/L	1	110				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<200	-	-	-	-
Toluene	µg/L	1	230				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<200	-	-	-	-
Xylene (m & p)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<400	-	-	-	-
Xylene (o)	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<200	-	-	-	-
Xylene Total	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	<600	-	-	-	-
C6-C10 less BTEX (F1)	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<4	-	-	-	-
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-trichloroethane	µg/L	1	400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	1	500				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-trichloroethane	µg/L	1	5800				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-dichloroethene	µg/L	1	900				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dichloroethane	µg/L	1	2600				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-dichloropropane	µg/L	1	1200				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
						Sample Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
1,3-dichloropropane	µg/L	1	1400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	1	320				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	µg/L	5	1100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloromethane	µg/L	1	5000				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	1	400				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	1	140				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrotoluene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RDX	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-dichlorobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-chlorotoluene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/L	1	100				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	0.2	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
2,4,6-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
2,4-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
2,6-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
2-chlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
Pentachlorophenol	µg/L	10	33				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
tetrachlorophenols	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	-
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dinoseb	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	-	-	-	-
Glyphosate	mg/L	0.01					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					<20	43	24	<20	38	<20	50	<20	<20	<20	3500	-	75	52	56	40
Nitrite + Nitrate as N	mg/L	0.05					2.3	<0.05	0.26	0.28	0.85	0.12	2.4	1.5	0.8	7.3	<5	-	0.45	0.45	1.5	0.08
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	10	<10	<10
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	-	<20,000	<20,000	<20,000	<20,000
Alkalinity (total) as CaCO3	mg/L	20					<20	43	24	<20	38	<20	50	<20	<20	<20	3500	-	84	62	56	40
Ammonia as N	µg/L	10	1200	20			50	2200	<10	120	20	<10	20	20	<10	<10	680,000	-	120	120	40	20
Chloride	mg/L	1					5.9	76	820	110	74	31	7500	730	110	50	1500	-	310	360	120	120
COD	mg/L	25					<25	<25	<25	<25	<25	<25	140	64	<25	<25	2300	-	37	<25	28	<25
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					1	2.1	1.8	0.6	<0.2	0.5	1.9	2	<0.2	2.5	32	-	2	0.3	8.8	2.1
Nitrate (as N)	mg/L	0.02					2.3	<0.05	0.25	0.27	0.85	0.11	2.3	1.5	0.79	7.3	<5	-	0.41	0.41	1.2	0.07
Nitrite (as N)	mg/L	0.02					<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<2	-	0.04	0.04	0.27	<0.02

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
						Sample Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Nitrogen (Total)	µg/L	200		**300**			3300	2100	2060	880	850	620	4300	3500	800	9800	**32,000**	-	**2450**	**750**	**10,300**	**2180**
Phosphate (as P)	mg/L	0.01					0.04	0.02	0.01	0.02	<0.01	<0.01	0.44	<0.01	0.06	0.08	4.9	-	0.02	0.03	0.11	0.03
Phosphorus	mg/L	0.01		**0.03**			0.04	0.02	0.01	0.02	<0.01	<0.01	0.44	<0.01	0.06	0.08	**4.9**	-	0.02	**0.03**	**0.11**	**0.03**
Reactive Phosphorus as P	mg/L	0.01		**0.01**			0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.43	<0.01	0.05	<0.01	**0.59**	-	<0.01	<0.01	<0.01	<0.01
Sodium	mg/L	0.5					4.2	150	420	100	47	28	4000	380	90	31	1300	-	170	190	59	63
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5					<5	7.3	110	19	<5	28	870	96	15	<5	<50	-	55	54	32	7.2
TDS	mg/L	10					78	260	1500	220	180	130	450	1400	400	130	4800	-	790	800	570	280
TOC	mg/L	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	5.1	780	-	11	12	10	7.9
TSS	mg/L	1		**0.01|10**			<5	6.8	8.2	6.5	<5	<5	20	8.1	5.7	<5	8.8	-	6.2	6.6	**130**	9.1
MAH																						
1,2,4-trimethylbenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-trimethylbenzene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total MAH	mg/L	0.003					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	µg/L	1	**40**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium (Filtered)	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	mg/L	0.05					<0.05	0.11	<0.05	<0.05	<0.05	<0.05	0.35	<0.05	<0.05	<0.05	2.5	-	0.11	0.09	0.08	0.08
Boron (Filtered)	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (Filtered)	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	0.5					7.9	4.7	44	13	11	2.2	380	46	12	1.6	32	-	34	41	32	16
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (hexavalent)	mg/L	0.005	**0.02**	**0.02**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001					<0.001	<0.001	<0.001	0.011	<0.001	<0.001	<0.001	0.003	<0.001	0.009	0.21	-	<0.001	0.002	0.019	<0.001
Chromium (III+VI) (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Filtered)	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.001	**0.003**	**0.003**			<0.001	0.003	0.007	0.021	0.036	0.008	0.004	0.006	0.001	0.006	<0.01	-	0.002	0.003	**0.011**	0.003
Copper (Filtered)	mg/L	0.001	**0.003**	**0.003**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron (Filtered)	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.001	**0.0066**	**0.0066**			<0.001	0.002	0.001	0.009	0.002	<0.001	<0.001	0.01	<0.001	0.009	<0.01	-	<0.001	0.002	**0.013**	<0.001
Lead (Filtered)	mg/L	0.001	**0.0066**	**0.0066**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	0.5					0.9	1.4	54	14	0.6	1.3	420	45	9.3	2.3	32	-	23	26	9.7	3
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese (Filtered)	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0001	**0.0007**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (Filtered)	mg/L	0.0001	**0.0007**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	**0.2**	**0.2**			0.001	0.003	0.011	0.011	0.005	0.004	0.064	0.008	0.005	0.006	0.11	-	0.002	0.002	0.005	<0.001
Nickel (Filtered)	mg/L	0.001	**0.2**	**0.2**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	mg/L	0.01		**0.01|0.03**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	0.5					6.5	13	9.3	5.8	<0.5	5	41	5.3	11	<0.5	390	-	23	16	15	9.1
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005	**0.16**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium (Filtered)	mg/L	0.005	**0.16**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.005	**0.023**				0.008	0.083	0.03	0.037	0.087	0.025	0.34	0.027	0.055	0.036	**0.21**	-	<0.005	0.009	**0.04**	0.012
Zinc (Filtered)	mg/L	0.005	**0.023**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
a-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Aldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Aldrin + Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
						Sample Date	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
b-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
chlordane	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<10,000	-	-	-	-
d-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
DDT	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
DDT+DDE+DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endosulfan I	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endosulfan II	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endosulfan sulphate	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endrin	µg/L	0.2	**0.01**				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endrin aldehyde	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Endrin ketone	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
g-BHC (Lindane)	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Heptachlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Heptachlor epoxide	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Methoxychlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<10,000	-	-	-	-
Toxaphene	mg/L	0.005					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	<1	-	-	-	-
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Bolstar (Sulprofos)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Chlorfenvinphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<200,000	-	-	-	-
Chlorpyrifos	µg/L	2	**0.04**				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Chlorpyrifos-methyl	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<200	-	-	-	-
Coumaphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<200,000	-	-	-	-
Demeton-O	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Demeton-S	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Diazinon	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Dichlorvos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Dimethoate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Disulfoton	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Ethion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Ethoprop	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Fenitrothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Fensulfothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Fenthion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Malathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Merphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<200	-	-	-	-
Methyl parathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Mevinphos (Phosdrin)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Monocrotophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Naled (Dibrom)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Omethoate	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<200,000	-	-	-	-
Phorate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Pyrazophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Ronnel	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Terbufos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Trichloronate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Tetrachlorvinphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<200	-	-	-	-
Organotins																						
Tributyltin	µg/L	12.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																						
Butyric Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanoic Acid	mg/L	5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	0.00097	-	-	-	-
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
2,4-dinitrophenol	mg/L	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-
2-methylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
2-nitrophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
3-&4-methylphenol	µg/L	6					<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	-
4-chloro-3-methylphenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
4-nitrophenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-	-	-	-	-	-
Acenaphthene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-

Cardno now Stantec

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
Field ID						GW12-30	GW13-12	GW15-12	GW15-3	GW16-12	GW16-30	GW2-12	GW2-3	GW3-12	GW3-3	GWILP	LP01	SW12	SW13	SW14	SWSTG1&2
Sample Date						12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
Lab Report No.						887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Acenaphthylene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Anthracene	µg/L	1	1.5			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Benz(a)anthracene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Benzo(a) pyrene	µg/L	1	0.4			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Chrysene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Cresol Total	mg/L	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Fluoranthene	µg/L	1	1.7			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Fluorene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Naphthalene	µg/L	1	90			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<2000	-	-	-	-
PAHs (Sum of total)	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Phenanthrene	µg/L	1	4			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Phenol	µg/L	3	520			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-	-	-	-	-
Pyrene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Pesticides																					
Parathion	µg/L	2				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
Pirimiphos-methyl	mg/L	0.02				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<200	-	-	-	-
Phenolics																					
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	-	-	-	-
Phenols (Total Halogenated)	mg/L	0.01				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Phenols (Total Non Halogenated)	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
Polychlorinated Biphenyls																					
Arochlor 1016	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1221	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1232	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1242	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1248	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1254	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Arochlor 1260	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
PCBs (Sum of total)	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<1000	-	-	-	-
Solvents																					
Methyl Ethyl Ketone	µg/L	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	µg/L	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/L	0.001				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/L	0.001				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	µg/L	1				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs																					
EPN	µg/L	2				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<200,000	-	-	-	-
TPH																					
C10-C16	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	3000	-	-	-	-
C16-C34	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	35,000	-	-	-	-
C34-C40	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	7000	-	-	-	-
F2-NAPHTHALENE	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	3000	-	-	-	-
+C10 - C36 (Sum of total)	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	40,700,000	-	-	-	-
C6 - C9	µg/L	20				<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-	<4000	-	-	-	-
C10 - C14	µg/L	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	1,700,000	-	-	-	-
C15 - C28	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	21,000,000	-	-	-	-
C29-C36	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	18,000,000	-	-	-	-
C10 - C40 (Sum of total)	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	45,000,000	-	-	-	-
C6-C10	mg/L	0.02				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<4	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
						Sample Date	12/05/2022	12/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Field																						
SWL	mbgl						7.24	3.32	1.54	1.48	2.79	2.02	3.66	4.68	2.02	3.87	2.36	1.04	1.11	6.54	1.84	-
pH	pH		6-8	6-8.5			5	5.01	11.85	4.74	6.55	6.73	8.55	11.41	2.96	7.3	6.34	6.74	6.87	6.38	7.33	6.46
Electrical conductivity	uS/cm						19797	73403	7655	1498	16988	6407	13746	7119	20340	1830	2575	83387	12170	220.7	5049	1605
Redox Potential	mV						153.9	11.6	6.7	184.7	131.8	127	14.3	-73.7	257.3	208.1	222.4	112.9	90.4	50.3	118.2	80.8
Dissolved Oxygen	%S			80-100			29.5	27.4	61	58.5	54.6	49.2	44.2	39.7	42.6	24	48.2	52.6	61	59	33.1	65.8
Temp	oC						32.7	31.5	30.3	29.6	30.3	31.2	30	28.7	30.2	30.3	30.4	30.3	31.1	32.9	30.9	26.6
Turbidity	ntu						-	-	-	-	-	-	25.9	24.6	23.7	9.3	12.4	-	-	-	-	467
PFAS																						
(8:2 FTSA)	UG/L	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	-
(10:2 FTSA)	UG/L	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	-
(4:2 FTSA)	UG/L	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	-
(N-EtFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
(N-EtFOSA)	mg/L	0.00005					<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-
(N-EtFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
(N-MeFOSAA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
(N-MeFOSE)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Sum of PFASs (n=30)*	UG/L	0.1					<0.1	<0.1	<0.1	<0.1	<0.1	2.02	<0.1	<0.1	<0.1	0.17	0.36	<0.1	1.4	<0.1	<0.1	-
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01					0.01	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	<0.01	<0.01	0.09	0.23	<0.01	0.84	<0.01	<0.01	-
Sum of WA DWER PFAS (n=10)*	UG/L	0.05					<0.05	0.08	<0.05	<0.05	<0.05	1.98	<0.05	<0.05	<0.05	0.17	0.36	<0.05	1.31	<0.05	<0.05	-
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	0.01	0.33	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	-
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	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	-
Perfluorobutanoic acid (PFBA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	0.26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	-
Perfluorodecanesulfonic acid (PFDS)	UG/L	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	-
Perfluorodecanoic acid (PFDA)	UG/L	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	-
Perfluorododecanoic acid (PFDoDA)	UG/L	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	-
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	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	<0.01	<0.01	-
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	-
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	0.08	0.13	<0.01	0.18	<0.01	<0.01	-
Perfluorohexanoic acid (PFHxA)	UG/L	0.01					<0.01	0.01	<0.01	<0.01	0.01	0.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	-
Perfluorononanoic acid (PFNA)	UG/L	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	0.03	<0.01	<0.01	-
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Perfluorooctanoate	UG/L	0.01			632		<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.23	<0.01	<0.01	-
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			2		0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.09	0.23	<0.01	0.61	<0.01	<0.01	-
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	-
Perfluoropentanoic acid (PFPeA)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	0.02	0.57	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	-
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	-
Perfluorotetradecanoic acid (PFTeDA)	UG/L	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	-
Perfluorotridecanoic acid (PFTrDA)	UG/L	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	-
Perfluoroundecanoic acid (PFUnDA)	UG/L	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	-
Sum (PFHxS + PFOS)*	UG/L	0.01					0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	0.17	0.36	<0.01	0.79	<0.01	<0.01	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01					0.01	<0.01	<0.01	<0.01	<0.01	0.31	<0.01	<0.01	<0.01	0.17	0.36	<0.01	1.02	<0.01	<0.01	-
VFA																						
4-Methylvaleric acid*	MG/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Heptanoic acid*	MG/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Isovaleric acid*	MG/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Isobutyric acid*	MG/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Total VFA as Acetic Acid Equivalents*	MG/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	
BTEX																						
Benzene	µg/L	1	900	900			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Ethylbenzene	µg/L	1	110				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Toluene	µg/L	1	230				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Xylene (m & p)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Xylene (o)	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Xylene Total	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
C6-C10 less BTEX (F1)	mg/L	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Chlorinated Hydrocarbons																						
1,1,1,2-tetrachloroethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,1,1-trichloroethane	µg/L	1	400				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	1	500				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,1,2-trichloroethane	µg/L	1	5800				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,1-dichloroethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,1-dichloroethene	µg/L	1	900				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,2,3-trichloropropane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,2-dichloroethane	µg/L	1	2600				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,2-dichloropropane	µg/L	1	1200				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
						Sample Date	12/05/2022	12/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
1,3-dichloropropane	µg/L	1	1400				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Bromochloromethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Bromodichloromethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Bromoform	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Carbon tetrachloride	µg/L	1	320				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Chlorodibromomethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Chloroethane	µg/L	1					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Chloroform	µg/L	5	1100				-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Chloromethane	µg/L	1					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
cis-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
cis-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Dibromomethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Dichloromethane	µg/L	1	5000				-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Trichloroethene	µg/L	1	400				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Tetrachloroethene	µg/L	1	100				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
trans-1,2-dichloroethene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
trans-1,3-dichloropropene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Vinyl chloride	µg/L	1	140				-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Explosives																						
1,3,5-Trinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-& 2,6-Dinitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrotoluene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m-Nitrotoluene	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	100					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RDX	mg/L	0.1					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Halogenated Benzenes																						
1,2-dichlorobenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,3-dichlorobenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,4-dichlorobenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
4-chlorotoluene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Bromobenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Chlorobenzene	µg/L	1	100				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Hexachlorobenzene	µg/L	0.2	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Halogenated Hydrocarbons																						
1,2-dibromoethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Bromomethane	µg/L	1					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Dichlorodifluoromethane	µg/L	1					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Iodomethane	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Trichlorofluoromethane	µg/L	1					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Halogenated Phenols																						
2,4,5-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
2,4,6-trichlorophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
2,4-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
2,6-dichlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
2-chlorophenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
Pentachlorophenol	µg/L	10	33				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
tetrachlorophenols	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-
Herbicides																						
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Dinoseb	µg/L	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Glyphosate	mg/L	0.01					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Inorganics																						
Alkalinity (Bicarbonate as CaCO3)	mg/L	20					<20	38	<20	<20	27	<20	28	<20	21	170	120	250	58	<20	<20	-
Nitrite + Nitrate as N	mg/L	0.05					0.58	0.49	0.38	0.12	3.6	0.99	0.36	1.8	1.1	4.6	1.8	3.4	26	0.44	1.1	-
Carbonate Alkalinity (as CaCO3)	mg/L	10					<10	<10	180	<10	<10	<10	<10	77	<10	11	<10	<10	<10	<10	<10	-
Alkalinity (Hydroxide) as CaCO3	µg/L	20000					<20,000	<20,000	1,100,000	<20,000	<20,000	<20,000	<20,000	150,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	<20,000	-
Alkalinity (total) as CaCO3	mg/L	20					<20	38	1300	<20	27	<20	28	230	21	190	120	250	58	<20	<20	-
Ammonia as N	µg/L	10	1200	20			20	1700	1200	<10	190	30	20	80	<10	<10	10	30	<10	<10	<10	-
Chloride	mg/L	1					6100	24,000	800	390	5300	1600	4000	1600	6300	210	460	30,000	3200	8.9	1300	-
COD	mg/L	25					140	450	110	32	86	37	45	<25	<25	<25	140	540	96	<25	<25	-
Ferrous Iron	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2					2.3	1.8	1	1.2	1	<0.2	0.4	1.2	0.5	0.9	<0.2	3	4.4	<0.2	2	-
Nitrate (as N)	mg/L	0.02					0.57	0.48	0.25	0.11	3.6	0.99	0.35	1.7	1.1	4.6	1.8	3.4	26	0.44	1	-
Nitrite (as N)	mg/L	0.02					<0.02	<0.02	0.14	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
						Sample Date	12/05/2022	12/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Nitrogen (Total)	µg/L	200		**300**			2880	2290	1380	1320	4600	990	760	3000	1600	5500	1800	6400	30,400	440	3100	-
Phosphate (as P)	mg/L	0.01					0.11	0.53	0.4	0.01	0.04	0.02	0.03	<0.01	0.06	0.08	0.12	0.03	0.09	0.02	0.03	-
Phosphorus	mg/L	0.01		**0.03**			0.11	0.53	0.4	0.01	0.04	0.02	0.03	<0.01	0.06	0.08	0.12	0.03	0.09	0.02	0.03	-
Reactive Phosphorus as P	mg/L	0.01		**0.01**			0.02	0.45	0.01	<0.01	0.03	<0.01	<0.01	0.01	<0.01	0.02	<0.01	0.02	0.08	0.01	<0.01	-
Sodium	mg/L	0.5					2800	14,000	280	200	3000	950	2500	1000	3900	150	340	17,000	2000	14	590	-
Sodium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5					650	2800	36	37	550	280	380	410	480	180	77	3700	460	6.1	110	-
TDS	mg/L	10					12,000	4100	2500	840	16,000	2900	5400	4000	8600	2600	1100	55,000	5300	1100	2400	-
TOC	mg/L	5					<5	5.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.2	<5	5.3	-
TSS	mg/L	1		**0.01|10**			94	210	22	<5	82	26	52	37	120	16	16	80	20	11	29	-
MAH																						
1,2,4-trimethylbenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
1,3,5-trimethylbenzene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Total MAH	mg/L	0.003					-	-	-	-	-	-	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	-	-	-
Isopropylbenzene	µg/L	1	**40**				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Styrene	µg/L	1					-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
Metals																						
Aluminium	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.001					-	-	-	-	-	-	0.001	<0.001	0.005	0.002	0.01	-	-	-	-	-
Arsenic (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	0.02					-	-	-	-	-	-	0.11	0.13	0.19	0.16	0.18	-	-	-	-	-
Barium (Filtered)	mg/L	0.02					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001					-	-	-	-	-	-	0.002	<0.001	<0.001	<0.001	0.004	-	-	-	-	-
Beryllium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	mg/L	0.05					0.24	0.64	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.82	<0.5	<0.5	-
Boron (Filtered)	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	-	-	0.0025	<0.0002	0.0036	0.0012	0.0011	-	-	-	-	-
Cadmium (Filtered)	mg/L	0.0002	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	0.5					360	1500	520	22	270	88	360	580	670	82	43	1100	240	1.7	53	-
Calcium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (hexavalent)	mg/L	0.005	**0.02**	**0.02**			-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001					0.023	0.003	0.007	0.005	0.085	<0.001	-	-	-	-	-	<0.001	<0.001	0.001	0.004	-
Chromium (III+VI) (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	-	-	0.01	<0.001	0.014	<0.001	0.01	-	-	-	-	-
Cobalt (Filtered)	mg/L	0.001	**0.014**	**0.014**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.001	**0.003**	**0.003**			0.007	0.003	0.004	0.003	0.003	0.002	0.011	0.01	0.012	0.006	0.019	0.003	0.008	0.002	0.03	-
Copper (Filtered)	mg/L	0.001	**0.003**	**0.003**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.05					-	-	-	-	-	-	0.68	0.07	7.1	1.1	22	-	-	-	-	-
Iron (Filtered)	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.001	**0.0066**	**0.0066**			0.029	0.001	0.002	0.005	<0.001	<0.001	0.011	0.007	0.035	0.003	0.043	<0.001	<0.001	<0.001	0.009	-
Lead (Filtered)	mg/L	0.001	**0.0066**	**0.0066**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	0.5					370	1900	<5	29	270	100	280	3.6	520	21	30	2300	230	1.2	80	-
Magnesium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.005					-	-	-	-	-	-	0.2	0.005	0.27	0.043	0.09	-	-	-	-	-
Manganese (Filtered)	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0001	**0.0007**				-	-	-	-	-	-	<0.0001	<0.0001	0.0001	<0.0001	0.0002	-	-	-	-	-
Mercury (Filtered)	mg/L	0.0001	**0.0007**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	**0.2**	**0.2**			0.17	0.79	0.003	0.015	0.059	0.029	0.12	0.003	0.11	0.004	0.038	0.021	0.007	0.001	0.037	-
Nickel (Filtered)	mg/L	0.001	**0.2**	**0.2**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus	mg/L	0.01		**0.01|0.03**			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	0.5					29	270	52	0.5	100	31	23	16	30	19	1.1	440	69	1.2	12	-
Potassium (Filtered)	mg/L	0.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.001					-	-	-	-	-	-	0.001	<0.001	0.002	0.002	0.005	-	-	-	-	-
Selenium (Filtered)	mg/L	0.001					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	mg/L	0.005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.005	**0.16**				-	-	-	-	-	-	<0.005	<0.005	0.02	0.023	0.078	-	-	-	-	-
Vanadium (Filtered)	mg/L	0.005	**0.16**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	0.005	**0.023**				0.67	0.081	0.007	0.055	0.13	0.061	0.54	0.018	0.45	0.023	0.13	0.093	0.11	0.024	0.083	-
Zinc (Filtered)	mg/L	0.005	**0.023**				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic																						
Methane	mg/L	0.05					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides																						
4,4-DDE	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
a-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Aldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Aldrin + Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	Field ID	WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
						Sample Date	12/05/2022	12/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
						Lab Report No.	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
b-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
chlordane	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
d-BHC	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
DDT	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
DDT+DDE+DDD	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Dieldrin	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endosulfan I	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endosulfan II	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endosulfan sulphate	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endrin	µg/L	0.2	**0.01**				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endrin aldehyde	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Endrin ketone	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
g-BHC (Lindane)	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Heptachlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Heptachlor epoxide	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Methoxychlor	µg/L	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Toxaphene	mg/L	0.005					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-
Organophosphorous Pesticides																						
Azinophos methyl	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Bolstar (Sulprofos)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Chlorfenvinphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Chlorpyrifos	µg/L	2	**0.04**				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Chlorpyrifos-methyl	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Coumaphos	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Demeton-O	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Demeton-S	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Diazinon	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Dichlorvos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Dimethoate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Disulfoton	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Ethion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Ethoprop	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Fenitrothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Fensulfothion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Fenthion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Malathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Merphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Methyl parathion	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Mevinphos (Phosdrin)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Monocrotophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Naled (Dibrom)	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Omethoate	µg/L	20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Phorate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Pyrazophos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Ronnel	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Terbufos	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Trichloronate	µg/L	2					<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Tetrachlorvinphos	mg/L	0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Organotins																						
Tributyltin	µg/L	12.5					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																						
Butyric Acid	mg/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Hexanoic Acid	mg/L	5					-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005					<0.00005	0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-
PAH																						
Benzo(b+j)fluoranthene	mg/L	0.001					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
PAH/Phenols																						
2,4-dimethylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
2,4-dinitrophenol	mg/L	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-
2-methylphenol	µg/L	3					<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
2-nitrophenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
3-&4-methylphenol	µg/L	6					<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	-
4,6-Dinitro-2-methylphenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-
4-chloro-3-methylphenol	µg/L	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
4-nitrophenol	µg/L	30					<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	-
Acenaphthene	µg/L	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-

Cardno now Stantec

Chem Name	Units	EQL	ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%	WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
Field ID						WW13	WW6	GW1-12	GW1-3	GW14-12	GW14-3	GW17-12	GW17-30	GW17-3	GW18-12	GW18-3	GW8-12	GW8-3	GW9-12	WW9	SW12
Sample Date						12/05/2022	12/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022	13/05/2022
Lab Report No.						887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921	887921
Acenaphthylene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Anthracene	µg/L	1	1.5			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Benz(a)anthracene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Benzo(a) pyrene	µg/L	1	0.4			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Benzo(g,h,i)perylene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Benzo(k)fluoranthene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Chrysene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Cresol Total	mg/L	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	-
Dibenz(a,h)anthracene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Fluoranthene	µg/L	1	1.7			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Fluorene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Indeno(1,2,3-c,d)pyrene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Naphthalene	µg/L	1	90			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
PAHs (Sum of total)	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Phenanthrene	µg/L	1	4			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Phenol	µg/L	3	520			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
Pyrene	µg/L	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Pesticides																					
Parathion	µg/L	2				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
Pirimiphos-methyl	mg/L	0.02				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Phenolics																					
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
Phenols (Total Halogenated)	mg/L	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	-
Phenols (Total Non Halogenated)	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Polychlorinated Biphenyls																					
Arochlor 1016	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1221	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1232	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1242	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1248	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1254	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Arochlor 1260	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
PCBs (Sum of total)	µg/L	5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Solvents																					
Methyl Ethyl Ketone	µg/L	1				-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
4-Methyl-2-pentanone	µg/L	1				-	-	-	-	-	-	<5	<5	<5	<5	<5	-	-	-	-	-
Acetone	mg/L	0.001				-	-	-	-	-	-	<0.005	0.01	<0.005	<0.005	<0.005	-	-	-	-	-
Allyl chloride	mg/L	0.001				-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-
Carbon disulfide	µg/L	1				-	-	-	-	-	-	<1	<1	<1	<1	<1	-	-	-	-	-
SVOCs																					
EPN	µg/L	2				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-
TPH																					
C10-C16	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
C16-C34	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
C34-C40	mg/L	0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
F2-NAPHTHALENE	mg/L	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
+C10 - C36 (Sum of total)	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
C6 - C9	µg/L	20				<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
C10 - C14	µg/L	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
C15 - C28	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
C29-C36	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
C10 - C40 (Sum of total)	µg/L	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
C6-C10	mg/L	0.02				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-

					Field ID	SW13	SW14								
					Sample Date	13/05/2022	13/05/2022								
					Lab Report No.	887921	887921								
			ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%			**Statistical Summary**							
Chem Name	**Units**	**EQL**						Number of Detects	Min Conc.	Max Detect	Median Conc.	Standard Deviation	Number of Guideline Exceedances		
Field								0	99999	ND			0		
SWL	mbgl					-	-	157	0.3	14	2.41	3.2	0		
pH	pH		**6-8**	**6-8.5**		6.55	6.02	173	2.96	12.42	6.555	1.7	88		
Electrical conductivity	uS/cm					1853	779	173	3.14	83387	1533	16108	0		
Redox Potential	mV					68.7	188.6	172	-250.9	1517	75.9	141	0		
Dissolved Oxygen	%S			**80-100**		**62.7**	**41.4**	173	7.1	197.3	56.1	31	148		
Temp	oC					27.3	27.2	173	24.4	38.5	29.8	2.3	0		
Turbidity	ntu					721	360.2	168	0.91	47840	144	7589	0		
PFAS															
(8:2 FTSA)	UG/L	0.01				-	-	6	<0.01	0.34	0.005	0.032	0		
(10:2 FTSA)	UG/L	0.01				-	-	1	<0.01	0.01	0.005	0.0038	0		
(4:2 FTSA)	UG/L	0.01				-	-	1	<0.01	0.02	0.005	0.004	0		
(N-EtFOSAA)	UG/L	0.05				-	-	3	<0.05	0.71	0.025	0.06	0		
(N-EtFOSA)	mg/L	0.00005				-	-	0	<0.00005	ND	0.000025	0.0000021	0		
(N-EtFOSE)	UG/L	0.05				-	-	0	<0.05	ND	0.025	0.0021	0		
(N-MeFOSAA)	UG/L	0.05				-	-	2	<0.05	0.31	0.025	0.032	0		
(N-MeFOSE)	UG/L	0.05				-	-	0	<0.05	ND	0.025	0.0021	0		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	UG/L	0.05				-	-	0	<0.05	ND	0.025	0.0021	0		
Sum of PFASs (n=30)*	UG/L	0.1				-	-	56	<0.1	38.6	0.05	6	0		
Sum of US EPA PFAS (PFOS + PFOA)*	UG/L	0.01				-	-	66	<0.01	3.2	0.005	0.53	0		
Sum of WA DWER PFAS (n=10)*	UG/L	0.05				-	-	62	<0.05	38.6	0.025	5.8	0		
Perfluorobutanesulfonic acid (PFBS)	UG/L	0.01				-	-	45	<0.01	17	0.005	2.5	0		
Perfluorononanesulfonic acid (PFNS)(trace)	µg/L	0.01				-	-	0	<0.01	ND	0.005	0.0038	0		
Perfluorobutanoic acid (PFBA)	UG/L	0.05				-	-	32	<0.05	2.1	0.025	0.54	0		
Perfluorodecanesulfonic acid (PFDS)	UG/L	0.01				-	-	0	<0.01	ND	0.005	0.0038	0		
Perfluorodecanoic acid (PFDA)	UG/L	0.01				-	-	10	<0.01	0.19	0.005	0.022	0		
Perfluorododecanoic acid (PFDoDA)	UG/L	0.01				-	-	2	<0.01	0.02	0.005	0.004	0		
Perfluoroheptanesulfonic acid (PFHpS)	UG/L	0.01				-	-	8	<0.01	0.06	0.005	0.0081	0		
Perfluoroheptanoic acid (PFHpA)	UG/L	0.01				-	-	44	<0.01	1.5	0.005	0.18	0		
Perfluorohexanesulfonic acid (PFHxS)	UG/L	0.01				-	-	59	<0.01	1.8	0.005	0.21	0		
Perfluorohexanoic acid (PFHxA)	UG/L	0.01				-	-	57	<0.01	13	0.005	1.4	0		
Perfluorononanoic acid (PFNA)	UG/L	0.01				-	-	16	<0.01	3.9	0.005	0.33	0		
Perfluorooctane sulfonamide (FOSA)	UG/L	0.05				-	-	0	<0.05	ND	0.025	0.0021	0		
Perfluorooctanoate	UG/L	0.01			**632**	-	-	47	<0.01	1.8	0.005	0.35	0		
Perfluorooctanesulfonic acid (PFOS)	UG/L	0.01			**2**	-	-	63	<0.01	1.6	0.005	0.25	0		
Perfluoropentanesulfonic acid (PFPeS)	UG/L	0.01				-	-	31	<0.01	0.24	0.005	0.023	0		
Perfluoropentanoic acid (PFPeA)	UG/L	0.01				-	-	54	<0.01	12	0.005	1.1	0		
Perfluoropropanesulfonic acid (PFPrS)	UG/L	0.01				-	-	24	<0.01	0.24	0.005	0.05	0		
Perfluorotetradecanoic acid (PFTeDA)	UG/L	0.01				-	-	1	<0.01	0.03	0.005	0.0043	0		
Perfluorotridecanoic acid (PFTrDA)	UG/L	0.01				-	-	1	<0.01	0.36	0.005	0.03	0		
Perfluoroundecanoic acid (PFUnDA)	UG/L	0.01				-	-	2	<0.01	1.5	0.005	0.13	0		
Sum (PFHxS + PFOS)*	UG/L	0.01				-	-	69	<0.01	3.2	0.005	0.45	0		
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	UG/L	0.01				-	-	70	<0.01	4.9	0.01	0.72	0		
VFA															
4-Methylvaleric acid*	MG/L	5				-	-	0	<5	ND	2.5	0	0		
Heptanoic acid*	MG/L	5				-	-	0	<5	ND	2.5	0	0		
Isovaleric acid*	MG/L	5				-	-	0	<5	ND	2.5	0	0		
Isobutyric acid*	MG/L	5				-	-	0	<5	ND	2.5	0	0		
Total VFA as Acetic Acid Equivalents*	MG/L	5						3	<5	11	2.5	2.2	0		
BTEX															
Benzene	µg/L	1	**900**	**900**		-	-	1	<1	380	0.5	39	0		
Ethylbenzene	µg/L	1	**110**			-	-	2	<1	110	0.5	16	0		
Toluene	µg/L	1	**230**			-	-	2	<1	120	0.5	16	0		
Xylene (m & p)	µg/L	2				-	-	2	<2	670	1	70	0		
Xylene (o)	µg/L	1				-	-	5	<1	370	0.5	39	0		
Xylene Total	µg/L	3				-	-	3	<3	1000	1.5	105	0		
C6-C10 less BTEX (F1)	mg/L	0.02				-	-	3	<0.02	8.4	0.01	0.98	0		
Chlorinated Hydrocarbons															
1,1,1,2-tetrachloroethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0		
1,1,1-trichloroethane	µg/L	1	**400**			-	-	0	<1	ND	0.5	7.9	0		
1,1,2,2-tetrachloroethane	µg/L	1	**500**			-	-	0	<1	ND	0.5	7.9	0		
1,1,2-trichloroethane	µg/L	1	**5800**			-	-	0	<1	ND	0.5	7.9	0		
1,1-dichloroethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0		
1,1-dichloroethene	µg/L	1	**900**			-	-	0	<1	ND	0.5	7.9	0		
1,2,3-trichloropropane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0		
1,2-dichloroethane	µg/L	1	**2600**			-	-	0	<1	ND	0.5	7.9	0		
1,2-dichloropropane	µg/L	1	**1200**			-	-	0	<1	ND	0.5	7.9	0		

						Field ID	SW13	SW14							
						Sample Date	13/05/2022	13/05/2022							
						Lab Report No.	887921	887921							
			ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%			Statistical Summary					
Chem Name	**Units**	**EQL**						Number of Detects	Min Conc.	Max Detect	Median Conc.	Standard Deviation	Number of Guideline Exceedances
1,3-dichloropropane	µg/L	1	**1400**			-	-	0	<1	ND	0.5	7.9	0
Bromochloromethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Bromodichloromethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Bromoform	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Carbon tetrachloride	µg/L	1	**320**			-	-	0	<1	ND	0.5	7.9	0
Chlorodibromomethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Chloroethane	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
Chloroform	µg/L	5	**1100**			-	-	0	<5	ND	2.5	7.6	0
Chloromethane	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
cis-1,2-dichloroethene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
cis-1,3-dichloropropene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Dibromomethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Dichloromethane	µg/L	1	**5000**			-	-	0	<1	ND	2.5	7.7	0
Trichloroethene	µg/L	1	**400**			-	-	0	<1	ND	0.5	7.9	0
Tetrachloroethene	µg/L	1	**100**			-	-	0	<1	ND	0.5	7.9	0
trans-1,2-dichloroethene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
trans-1,3-dichloropropene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Vinyl chloride	µg/L	1	**140**			-	-	0	<1	ND	2.5	7.7	0
Explosives													
1,3,5-Trinitrobenzene	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
1,3-Dinitrobenzene	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
2,4,6-Trinitrotoluene (TNT)	mg/L	0.1				-	-	0	<0.1	ND	0.05	0.0088	0
2,4-& 2,6-Dinitrotoluene	mg/L	0.1				-	-	1	<0.1	0.3	0.05	0.044	0
2-Nitrotoluene	µg/L	100				-	-	0	<100	ND	50	0	0
4-Nitrotoluene	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
m-Nitrotoluene	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
Nitrobenzene	µg/L	100				-	-	0	<100	ND	50	0	0
RDX	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
Halogenated Benzenes													
1,2-dichlorobenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
1,3-dichlorobenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
1,4-dichlorobenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
4-chlorotoluene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Bromobenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Chlorobenzene	µg/L	1	**100**			-	-	0	<1	ND	0.5	7.9	0
Hexachlorobenzene	µg/L	0.2	**0.2**			-	-	0	<0.2	ND	0.1	556	0
Halogenated Hydrocarbons													
1,2-dibromoethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Bromomethane	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
Dichlorodifluoromethane	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
Iodomethane	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Trichlorofluoromethane	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
Halogenated Phenols													
2,4,5-trichlorophenol	µg/L	10				-	-	0	<10	ND	5	0	0
2,4,6-trichlorophenol	µg/L	10				-	-	0	<10	ND	5	0	0
2,4-dichlorophenol	µg/L	3				-	-	0	<3	ND	1.5	0	0
2,6-dichlorophenol	µg/L	3				-	-	0	<3	ND	1.5	0	0
2-chlorophenol	µg/L	3				-	-	0	<3	ND	1.5	0	0
Pentachlorophenol	µg/L	10	**33**			-	-	0	<10	ND	5	0	0
tetrachlorophenols	µg/L	30				-	-	0	<30	ND	15	0	0
Herbicides													
2,4,5-Trichlorophenoxy-propanoic acid	mg/L	5				-	-	0	<5	ND	2.5	0	0
Dinoseb	µg/L	100				-	-	0	<100	ND	50	0	0
Glyphosate	mg/L	0.01				-	-	0	<0.01	ND	0.5	0.12	0
Inorganics													
Alkalinity (Bicarbonate as CaCO3)	mg/L	20				-	-	92	<20	7600	27	1051	0
Nitrite + Nitrate as N	mg/L	0.05				-	-	140	<0.05	220	0.88	18	0
Carbonate Alkalinity (as CaCO3)	mg/L	10				-	-	17	<10	1400	5	119	0
Alkalinity (Hydroxide) as CaCO3	µg/L	20000				-	-	7	<20000	1200000	10000	195698	0
Alkalinity (total) as CaCO3	mg/L	20				-	-	100	<20	9000	32	1144	0
Ammonia as N	µg/L	10	**1200**	**20**		-	-	109	<10	2000000	40	251534	85
Chloride	mg/L	1				-	-	159	5.7	31000	310	6409	0
COD	mg/L	25				-	-	96	<25	15000	37	1346	0
Ferrous Iron	mg/L	0.05				-	-	1	<0.05	0.07	0.025	0.02	0
Kjeldahl Nitrogen Total	mg/L	0.2				-	-	127	<0.2	2000	1	265	0
Nitrate (as N)	mg/L	0.02				-	-	141	<0.02	220	0.82	18	0
Nitrite (as N)	mg/L	0.02				-	-	37	<0.02	8.2	0.01	0.77	0

						Field ID	SW13	SW14						
						Sample Date	13/05/2022	13/05/2022						
						Lab Report No.	887921	887921						
			ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%			Statistical Summary					
Chem Name	**Units**	**EQL**						Number of Detects	Min Conc.	Max Detect	Median Conc.	Standard Deviation	Number of Guideline Exceedances
Nitrogen (Total)	µg/L	200		**300**		-	-	154	<200	2000000	2290	265374	150
Phosphate (as P)	mg/L	0.01				-	-	38	<0.01	4.9	0.03	0.75	0
Phosphorus	mg/L	0.01		**0.03**		-	-	113	<0.01	46	0.03	4.4	58
Reactive Phosphorus as P	mg/L	0.01		**0.01**		-	-	92	<0.01	9.5	0.01	1.4	73
Sodium	mg/L	0.5				-	-	159	2.5	17000	200	3470	0
Sodium (Filtered)	mg/L	0.5				-	-	5	78	2600	440	1138	0
Sulphate	mg/L	5				-	-	138	<5	3800	60	748	0
TDS	mg/L	10				-	-	166	<10	61000	930	11744	0
TOC	mg/L	5				-	-	62	<5	4200	2.5	432	0
TSS	mg/L	1		**0.01|10**		-	-	142	<1	6500	25	624	112
MAH													
1,2,4-trimethylbenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
1,3,5-trimethylbenzene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Total MAH	mg/L	0.003				-	-	0	<0.003	ND	0.0015	0.016	0
Isopropylbenzene	µg/L	1	**40**			-	-	0	<1	ND	0.5	7.9	0
Styrene	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
Metals													
Aluminium	mg/L	0.05				-	-	9	0.09	2.8	0.54	0.83	0
Arsenic	mg/L	0.001				-	-	21	<0.001	0.33	0.001	0.06	0
Arsenic (Filtered)	mg/L	0.001				-	-	3	<0.001	0.002	0.0005	0.00034	0
Barium	mg/L	0.02				-	-	19	0.03	0.7	0.13	0.14	0
Barium (Filtered)	mg/L	0.02				-	-	23	<0.02	1.1	0.1	0.26	0
Beryllium	mg/L	0.001				-	-	8	<0.001	0.004	0.0005	0.001	0
Beryllium (Filtered)	mg/L	0.001				-	-	1	<0.001	0.002	0.0005	0.00032	0
Boron	mg/L	0.05				-	-	29	<0.05	20	0.245	2.4	0
Boron (Filtered)	mg/L	0.05				-	-	42	<0.05	2.9	0.025	0.48	0
Cadmium	mg/L	0.0002	**0.014**	**0.014**		-	-	15	<0.0002	0.0036	0.0008	0.00086	0
Cadmium (Filtered)	mg/L	0.0002	**0.014**	**0.014**		-	-	11	<0.0002	0.0024	0.00025	0.00079	0
Calcium	mg/L	0.5				-	-	159	0.7	2100	42	417	0
Calcium (Filtered)	mg/L	0.5				-	-	5	16	410	240	185	0
Chromium (hexavalent)	mg/L	0.005	**0.02**	**0.02**		-	-	3	<0.005	0.084	0.0025	0.014	1
Chromium (III+VI)	mg/L	0.001				-	-	35	<0.001	1.2	0.004	0.18	0
Chromium (III+VI) (Filtered)	mg/L	0.001				-	-	16	<0.001	0.16	0.0005	0.018	0
Cobalt	mg/L	0.001	**0.014**	**0.014**		-	-	27	<0.001	0.2	0.005	0.033	7
Cobalt (Filtered)	mg/L	0.001	**0.014**	**0.014**		-	-	12	<0.001	0.017	0.0025	0.0056	1
Copper	mg/L	0.001	**0.003**	**0.003**		-	-	73	<0.001	0.48	0.005	0.061	42
Copper (Filtered)	mg/L	0.001	**0.003**	**0.003**		-	-	65	<0.001	0.016	0.001	0.0024	19
Iron	mg/L	0.05				-	-	27	<0.05	22	1.1	5.6	0
Iron (Filtered)	mg/L	0.05				-	-	2	<0.05	0.1	0.025	0.017	0
Lithium	mg/L	0.005				-	-	5	<0.005	0.53	0.016	0.17	0
Lead	mg/L	0.001	**0.0066**	**0.0066**		-	-	58	<0.001	0.075	0.004	0.012	27
Lead (Filtered)	mg/L	0.001	**0.0066**	**0.0066**		-	-	21	<0.001	0.07	0.0005	0.0094	7
Magnesium	mg/L	0.5				-	-	147	<0.5	2300	22	460	0
Magnesium (Filtered)	mg/L	0.5				-	-	4	<1	330	13	150	0
Manganese	mg/L	0.005				-	-	34	<0.005	1.5	0.17	0.28	0
Manganese (Filtered)	mg/L	0.005				-	-	15	<0.005	2.8	0.094	0.81	0
Mercury	mg/L	0.0001	**0.0007**			-	-	2	<0.0001	0.0002	0.00005	0.000044	0
Mercury (Filtered)	mg/L	0.0001	**0.0007**			-	-	1	<0.0001	0.0001	0.00005	0.000011	0
Nickel	mg/L	0.001	**0.2**	**0.2**		-	-	75	<0.001	0.79	0.006	0.12	2
Nickel (Filtered)	mg/L	0.001	**0.2**	**0.2**		-	-	85	<0.001	0.75	0.003	0.12	3
Phosphorus	mg/L	0.01		**0.01|0.03**		-	-	99	<0.01	46	0.03	4.8	57
Potassium	mg/L	0.5				-	-	151	<0.5	3400	16	296	0
Potassium (Filtered)	mg/L	0.5				-	-	5	3	20	18	7	0
Selenium	mg/L	0.001				-	-	14	<0.001	0.005	0.001	0.0017	0
Selenium (Filtered)	mg/L	0.001				-	-	2	<0.001	0.003	0.0005	0.00054	0
Tin	mg/L	0.005				-	-	0	<0.005	ND	0.0025		0
Vanadium	mg/L	0.005	**0.16**			-	-	15	<0.005	0.9	0.005	0.17	3
Vanadium (Filtered)	mg/L	0.005	**0.16**			-	-	2	<0.005	0.025	0.0025	0.0047	0
Zinc	mg/L	0.005	**0.023**			-	-	74	<0.005	2.6	0.0365	0.33	51
Zinc (Filtered)	mg/L	0.005	**0.023**			-	-	84	<0.005	0.93	0.02	0.15	47
Organic													
Methane	mg/L	0.05				-	-	0	<0.05	ND	0.025	0	0
Organochlorine Pesticides													
4,4-DDE	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
a-BHC	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Aldrin	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Aldrin + Dieldrin	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0

						Field ID	SW13	SW14						
						Sample Date	13/05/2022	13/05/2022						
						Lab Report No.	887921	887921						
			ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%			Statistical Summary					
Chem Name	Units	EQL						Number of Detects	Min Conc.	Max Detect	Median Conc.	Standard Deviation	Number of Guideline Exceedances
b-BHC	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
chlordane	µg/L	2				-	-	0	<2	ND	1	555	0
d-BHC	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
DDD	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
DDT	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
DDT+DDE+DDD	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Dieldrin	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Endosulfan I	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Endosulfan II	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Endosulfan sulphate	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Endrin	µg/L	0.2	**0.01**			-	-	0	<0.2	ND	0.1	556	0
Endrin aldehyde	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Endrin ketone	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
g-BHC (Lindane)	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Heptachlor	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Heptachlor epoxide	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Methoxychlor	µg/L	0.2				-	-	0	<0.2	ND	0.1	556	0
Toxaphene	mg/L	0.005				-	-	0	<0.005	ND	0.0025	0.055	0
Organophosphorous Pesticides													
Azinophos methyl	µg/L	2				-	-	0	<2	ND	1	11111	0
Bolstar (Sulprofos)	µg/L	2				-	-	0	<2	ND	1	11111	0
Chlorfenvinphos	µg/L	20				-	-	0	<20	ND	10	11110	0
Chlorpyrifos	µg/L	2	**0.04**			-	-	0	<2	ND	1	11111	0
Chlorpyrifos-methyl	mg/L	0.002				-	-	0	<0.002	ND	0.001	11	0
Coumaphos	µg/L	20				-	-	0	<20	ND	10	11110	0
Demeton-O	µg/L	2				-	-	0	<2	ND	1	11111	0
Demeton-S	µg/L	2				-	-	0	<2	ND	1	11111	0
Diazinon	µg/L	2				-	-	0	<2	ND	1	11111	0
Dichlorvos	µg/L	2				-	-	0	<2	ND	1	11111	0
Dimethoate	µg/L	2				-	-	0	<2	ND	1	11111	0
Disulfoton	µg/L	2				-	-	0	<2	ND	1	11111	0
Ethion	µg/L	2				-	-	0	<2	ND	1	11111	0
Ethoprop	µg/L	2				-	-	0	<2	ND	1	11111	0
Fenitrothion	µg/L	2				-	-	0	<2	ND	1	11111	0
Fensulfothion	µg/L	2				-	-	0	<2	ND	1	11111	0
Fenthion	µg/L	2				-	-	0	<2	ND	1	11111	0
Malathion	µg/L	2				-	-	0	<2	ND	1	11111	0
Merphos	mg/L	0.002				-	-	0	<0.002	ND	0.001	11	0
Methyl parathion	µg/L	2				-	-	0	<2	ND	1	11111	0
Mevinphos (Phosdrin)	µg/L	2				-	-	0	<2	ND	1	11111	0
Monocrotophos	µg/L	2				-	-	0	<2	ND	1	11111	0
Naled (Dibrom)	µg/L	2				-	-	0	<2	ND	1	11111	0
Omethoate	µg/L	20				-	-	0	<20	ND	10	11110	0
Phorate	µg/L	2				-	-	0	<2	ND	1	11111	0
Pyrazophos	µg/L	2				-	-	0	<2	ND	1	11111	0
Ronnel	µg/L	2				-	-	0	<2	ND	1	11111	0
Terbufos	µg/L	2				-	-	0	<2	ND	1	11111	0
Trichloronate	µg/L	2				-	-	0	<2	ND	1	11111	0
Tetrachlorvinphos	mg/L	0.002				-	-	0	<0.002	ND	0.001	11	0
Organotins													
Tributyltin	µg/L	12.5				-	-	0	<12.5	ND	6.25	0	0
Other													
Butyric Acid	mg/L	5				-	-	0	<5	ND	2.5	0	0
Hexanoic Acid	mg/L	5				-	-	0	<5	ND	2.5	0	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/L	0.00005				-	-	16	<0.00005	0.0021	0.000025	0.00028	0
PAH													
Benzo(b+j)fluoranthene	mg/L	0.001				-	-	0	<0.001	ND	0.0005	0	0
PAH/Phenols													
2,4-dimethylphenol	µg/L	3				-	-	0	<3	ND	1.5	0	0
2,4-dinitrophenol	mg/L	0.03				-	-	0	<0.03	ND	0.015	0	0
2-methylphenol	µg/L	3				-	-	0	<3	ND	1.5	0	0
2-nitrophenol	µg/L	10				-	-	0	<10	ND	5	0	0
3-&4-methylphenol	µg/L	6				-	-	0	<6	ND	3	0	0
4,6-Dinitro-2-methylphenol	µg/L	30				-	-	0	<30	ND	15	0	0
4-chloro-3-methylphenol	µg/L	10				-	-	0	<10	ND	5	0	0
4-nitrophenol	µg/L	30				-	-	0	<30	ND	15	0	0
Acenaphthene	µg/L	1				-	-	0	<1	ND	0.5	0	0

Cardno now Stantec

						Field ID	SW13	SW14						
						Sample Date	13/05/2022	13/05/2022						
						Lab Report No.	887921	887921						
			ANZG (2018) Marine Water 90% LOSP Toxicant DGVs	Darwin Harbour WQO (Shoal Bay upper area ambient marine)(applicable to surface water only)	PFAS NEMP 2020 Interim Marine 90%			**Statistical Summary**					
Chem Name	**Units**	**EQL**						Number of Detects	Min Conc.	Max Detect	Median Conc.	Standard Deviation	Number of Guideline Exceedances
Acenaphthylene	µg/L	1				-	-	1	<1	4	0.5	0.37	0
Anthracene	µg/L	1	**1.5**			-	-	0	<1	ND	0.5	0	0
Benz(a)anthracene	µg/L	1				-	-	1	<1	2	0.5	0.16	0
Benzo(a) pyrene	µg/L	1	**0.4**			-	-	0	<1	ND	0.5	0	0
Benzo(g,h,i)perylene	µg/L	1				-	-	0	<1	ND	0.5	0	0
Benzo(k)fluoranthene	µg/L	1				-	-	0	<1	ND	0.5	0	0
Chrysene	µg/L	1				-	-	1	<1	2	0.5	0.16	0
Cresol Total	mg/L	0.01				-	-	0	<0.01	ND	0.005	0	0
Dibenz(a,h)anthracene	µg/L	1				-	-	0	<1	ND	0.5	0	0
Fluoranthene	µg/L	1	**1.7**			-	-	1	<1	4	0.5	0.37	1
Fluorene	µg/L	1				-	-	1	<1	5	0.5	0.48	0
Indeno(1,2,3-c,d)pyrene	µg/L	1				-	-	0	<1	ND	0.5	0	0
Naphthalene	µg/L	1	**90**			-	-	2	<1	660	0.5	114	1
PAHs (Sum of total)	µg/L	1				-	-	2	<1	169	0.5	18	0
Phenanthrene	µg/L	1	**4**			-	-	1	<1	4	0.5	0.37	0
Phenol	µg/L	3	**520**			-	-	0	<3	ND	1.5	0	0
Pyrene	µg/L	1				-	-	1	<1	8	0.5	0.8	0
Pesticides													
Parathion	µg/L	2				-	-	0	<2	ND	1	11111	0
Pirimiphos-methyl	mg/L	0.02				-	-	0	<0.02	ND	0.01	11	0
Phenolics													
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100				-	-	0	<100	ND	50	0	0
Phenols (Total Halogenated)	mg/L	0.01				-	-	0	<0.01	ND	0.005	0	0
Phenols (Total Non Halogenated)	mg/L	0.1				-	-	0	<0.1	ND	0.05	0	0
Polychlorinated Biphenyls													
Arochlor 1016	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1221	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1232	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1242	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1248	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1254	µg/L	5				-	-	0	<5	ND	2.5	55	0
Arochlor 1260	µg/L	5				-	-	0	<5	ND	2.5	55	0
PCBs (Sum of total)	µg/L	5				-	-	0	<1	ND	2.5	55	0
Solvents													
Methyl Ethyl Ketone	µg/L	1				-	-	1	<1	2300	2.5	368	0
4-Methyl-2-pentanone	µg/L	1				-	-	0	<1	ND	2.5	7.7	0
Acetone	mg/L	0.001				-	-	7	<0.001	1.1	0.0025	0.18	0
Allyl chloride	mg/L	0.001				-	-	0	<0.001	ND	0.0005	0.0079	0
Carbon disulfide	µg/L	1				-	-	0	<1	ND	0.5	7.9	0
SVOCs													
EPN	µg/L	2				-	-	0	<2	ND	1	11111	0
TPH													
C10-C16	mg/L	0.05				-	-	16	<0.05	3000	0.025	309	0
C16-C34	mg/L	0.1				-	-	15	<0.1	35000	0.05	3610	0
C34-C40	mg/L	0.1				-	-	8	<0.1	7000	0.05	722	0
F2-NAPHTHALENE	mg/L	0.05				-	-	16	<0.05	3000	0.025	309	0
+C10 - C36 (Sum of total)	µg/L	100				-	-	16	<100	40700000	50	4197686	0
C6 - C9	µg/L	20				-	-	3	<20	3600	10	540	0
C10 - C14	µg/L	50				-	-	13	<50	1700000	25	175317	0
C15 - C28	µg/L	100				-	-	16	<100	21000000	50	2165865	0
C29-C36	µg/L	100				-	-	12	<100	18000000	50	1856500	0
C10 - C40 (Sum of total)	µg/L	100				-	-	16	<100	45000000	50	4641191	0
C6-C10	mg/L	0.02				-	-	3	<0.02	10	0.01	1.1	0

Cardno

now

Stantec

		Metals											PFAS									
		Arsenic	Aluminium	Boron	Cobalt	Copper	Chromium (III+VI)	Lead	Lithium	Mercury	Nickel	Zinc	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	Perfluorononanesulfonic acid (PFNS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)
		Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug
EQL		1	5	1	1	1	1	0.1	10	0.001	0.01	1	20	20	20	20	20	20	20	20	20	20
Site ID	**Sample Date**																					
DS02	**15/02/2022**	<1	<5	<1	<1	40	<1	<0.01	<10	<0.001	<0.01	<1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
DS03	**15/02/2022**	<1	<5	<1	<1	2.1	<1	<0.01	<10	<0.001	<0.01	<1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
DS04	**15/02/2022**	<1	<5	<1	<1	1.8	<1	<0.01	<10	<0.001	<0.01	<1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Maximum Concentration		**<1**	**<5**	**<1**	**<1**	**40**	**<1**	**<0.01**	**<10**	**<0.001**	**<0.01**	**<1**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
Average Concentration *		**0.5**	**2.5**	**0.5**	**0.5**	**14.6**	**0.5**	**0.005**	**5**	**0.0005**	**0.005**	**0.5**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**
Standard Deviation *		**0**	**0**	**0**	**0**	**17.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Detects		**0**	**0**	**0**	**0**	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects		**100**	**100**	**100**	**100**	**0**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Cardno now Stantec

		PFAS																			
		Perfluorohexanoic acid (PFHxA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoate (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of PFAS (WA DER List)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
		Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug	Total ug
EQL		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Site ID	**Sample Date**																				
DS02	**15/02/2022**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
DS03	**15/02/2022**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
DS04	**15/02/2022**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Maximum Concentration		**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
Average Concentration *		**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**
Standard Deviation *		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Detects		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects		**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 ha

				Inorganics	Metals										PFAS																					
				Moisture Content (dried @ 103°C)	Aluminium	Boron	Chromium (III+VI)	Cobalt	Copper	Lead	Lithium	Mercury	Nickel	Zinc	2-[N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	Perfluorononanesulfonic acid (PFNS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoate (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)
				%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
EQL				1	20	10	5	5	5	5	5	0.1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
NEPM 2013 HILs D Commercial/Industrial						**300,000**	**3,000**	**4,000**	**250,000**	**1,500**		**4,000**	**4,000**	**4,000,000**																								
PFAS NEMP 2020 Ecological direct exposure																														**10**						
PFAS NEMP 2020 Industrial/ commercial (HIL D)																														**50**						
PFAS NEMP 2020 Public open space (HIL C)																														**10**						
Field_ID	**Sample Depth**	**Sampled_Date-Time**	**Matrix**																																	
SS02	0-200mm	21/01/2022	Soil	13	15,000	<10	180	<5	<5	21	6.4	<0.1	11	45	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SS03	0-200mm	22/01/2022	Soil	7.3	15,000	<10	160	<5	<5	28	<5	<0.1	6.1	11	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SS04	0-200mm	23/01/2022	Soil	21	16,000	<10	32	<5	11	21	<5	<0.1	8.2	42	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																				
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects				3	3	0	3	0	1	3	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				7.3	15000	<10	32	<5	<5	21	<5	<0.1	6.1	11	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect				7.3	15000	ND	32	ND	11	21	6.4	ND	6.1	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				21	16000	<10	180	<5	11	28	6.4	<0.1	11	45	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				21	16000	ND	180	ND	11	28	6.4	ND	11	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				14	15333	5	124	2.5	5.3	23	3.8	0.05	8.4	33	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration				13	15000	5	160	2.5	2.5	21	2.5	0.05	8.2	42	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation				6.9	577	0	80	0	4.9	4	2.3	0	2.5	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cardno now Stantec

				PFAS									
				Perfluorooctane sulfonamide (FOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFASs (n=30)	Sum of PFAS (WA DER List)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
EQL				5	5	5	5	5	50	10	5	5	5
NEPM 2013 HILs D Commercial/Industrial													
PFAS NEMP 2020 Ecological direct exposure													
PFAS NEMP 2020 Industrial/ commercial (HIL D)													
PFAS NEMP 2020 Public open space (HIL C)													
Field_ID	**Sample Depth**	**Sampled_Date-Time**	**Matrix**										
SS02	0-200mm	21/01/2022	Soil	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5
SS03	0-200mm	22/01/2022	Soil	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5
SS04	0-200mm	23/01/2022	Soil	<5	<5	<5	<5	<5	<50	<10	<5	<5	<5
Statistical Summary													
Number of Results				3	3	3	3	3	3	3	3	3	3
Number of Detects				0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<5	<5	<5	<5	<50	<10	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<5	<5	<5	<5	<50	<10	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				2.5	2.5	2.5	2.5	2.5	25	5	2.5	2.5	2.5
Median Concentration				2.5	2.5	2.5	2.5	2.5	25	5	2.5	2.5	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0