

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
JUNE 2025 - SEPTEMBER 2025
SURFACE WATER



Group	Analyte	LOR	Units	Criteria	Sample ID	SW1	SW1	SW1	SW1	SW_A	SW_A	SW_A	SW_A	SW_C	SW_C	SW_C	SW_C	SW_D	SW_D
					Sample Date	30/06/2025	28/07/2025	21/08/2025	9/09/2025	30/06/2025	28/07/2025	21/08/2025	9/09/2025	30/06/2025	28/07/2025	21/08/2025	9/09/2025	28/07/2025	9/09/2025
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
	Electrical Conductivity (Lab)	2	µS/cm	4478	3100	1900	2600	2400	2700	1600	2000	2100	1000	340	950	730	430	400	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	16	< 5	13	13	< 5	< 5
	Total Suspended Solids	0	mg/L	30	27	39	15	35	< 5	15	12	7	280	39	150	210	16	51	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	200	180	200	210	320	160	240	230	260	87	390	280	42	31	
Anions	Chloride	1	mg/L	350	1100	560	850	740	680	490	640	600	150	41	110	74	93	83	
	Fluoride	0.1	mg/L	1	0.23	0.18	0.19	0.24	0.24	0.16	0.17	0.2	0.29	< 0.1	0.26	0.26	< 0.1	< 0.1	
	Sulfate (SO4)	1	mg/L	1000	80	55	77	69	110	60	100	94	24	9.7	7.1	3.7	17	9.2	
Cations	Calcium (Ca)	0.1	mg/L	1000	170	100	140	130	180	93	130	130	31	9.4	38	28	21	17	
	Magnesium (Mg)	0.1	mg/L	-	190	100	120	130	170	93	110	120	29	8.9	38	27	18	15	
	Potassium (K)	0.2	mg/L	-	15	11	13	7.7	17	9.6	16	15	19	8.5	15	11	6.1	13	
	Sodium (Na)	0.1	mg/L	230	210	150	200	190	130	110	110	140	140	45	88	75	25	21	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	14	14	14	12	13	13	13	12	50	27	36	37	16	17	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.03	0.09	0.09	0.09	0.14	0.02	0.04	0.38	4.9	0.11	4.5	0.66	0.02	0.07	
	Nitrate (NO3) as N	0.005	mg/L	-	< 0.025	0.95	< 0.025	0.11	0.47	0.61	0.46	0.18	< 0.005	0.075	< 0.005	< 0.005	0.042	0.088	
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.078	0.078	0.035	0.16	0.1	0.7	0.019	0.011	3.6	5.2	0.68	2.3	2.7	0.15	
	Manganese (Mn)	0.001	mg/L	0.2	0.11	0.37	0.38	0.59	0.45	0.21	0.35	0.22	7.3	0.74	7.9	2.2	0.027	0.003	
	Mercury (Hg)	0.0001	mg/L	0.002	-	-	-	< 0.0001	-	-	-	< 0.0001	-	-	-	< 0.0001	-	< 0.0001	
Phenolics	Total Phenols	0.05	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	

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		Sample ID	SW1	SW1	SW1	SW1	SW_A	SW_A	SW_A	SW_A	SW_C	SW_C	SW_C	SW_C	SW_D	SW_D
		Sample Date	30/06/2025	28/07/2025	21/08/2025	9/09/2025	30/06/2025	28/07/2025	21/08/2025	9/09/2025	30/06/2025	28/07/2025	21/08/2025	9/09/2025	28/07/2025	9/09/2025
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
PFAS Compounds	1H,1H,2H,2H-Perfluorododecane sulfonic acid	0.01	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
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.01	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
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.01	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
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.01	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
	N-Ethyl perfluorooctane sulfonamide (EtFOS)	0.01	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
	N-Ethyl perfluorooctane sulfonamidoacetic acid	0.05	µg/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-Ethyl perfluorooctane sulfonamidoethanol	0.05	µg/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-Methyl perfluorooctane sulfonamide (MeFOS)	0.01	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
	N-Methyl perfluorooctane sulfonamidoacetic acid	0.05	µg/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-Methyl perfluorooctane sulfonamidoethanol	0.05	µg/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
	Perfluorobutane sulfonate (PFBS)	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.02	0.02	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorobutanoic acid (PFBA)	0.05	µg/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
	Perfluorodecane sulfonic acid (PFDS)	0.01	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
	Perfluorodecanoic acid (PFDA)	0.01	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
	Perfluorododecanoic acid (PFDoDA)	0.01	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
	Perfluoroheptane sulfonic acid (PFHpS)	0.01	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
	Perfluoroheptanoic acid (PFHpA)	0.01	µg/L	-	0.02	< 0.01	0.01	0.01	0.03	< 0.01	0.03	0.03	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorohexane sulfonic acid (PFHxS)	0.01	µg/L	-	0.01	< 0.01	0.01	0.01	0.07	0.02	0.04	0.04	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorohexanoic acid (PFHxA)	0.01	µg/L	-	0.05	0.02	0.04	0.03	0.07	0.03	0.05	0.05	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorononane sulfonate (PFNS)	0.01	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
	Perfluorononanoic acid (PFNA)	0.01	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
	Perfluorooctane sulfonamide (FOSA)	0.01	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
	Perfluorooctane sulfonic acid (PFOS)	0.01	µg/L	0.00023	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.01	0.02	0.03	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorooctanoic acid (PFOA)	0.01	µg/L	19	0.02	0.01	0.02	0.02	0.07	0.02	0.04	0.04	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoropentane sulfonic acid (PFPeS)	0.01	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
	Perfluoropentanoic acid (PFPeA)	0.01	µg/L	-	0.04	0.02	0.03	0.03	0.07	0.03	0.05	0.06	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoropropane sulfonic acid (PFPrS)	0.01	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
	Perfluorotetradecanoic acid (PFTeDA)	0.01	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
	Perfluorotridecanoic acid (PFTTrDA)	0.01	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
	Perfluoroundecanoic acid (PFUnDA)	0.01	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
	Sum of PFHxS+PFOS+PFOA	0.01	µg/L	-	0.03	0.01	0.03	0.03	0.19	0.05	0.11	0.11	< 0.01	< 0.01	< 0.01	< 0.01
	Sum of PFHxS+PFOS	0.01	µg/L	-	0.01	< 0.01	0.01	0.01	0.12	0.03	0.06	0.07	< 0.01	< 0.01	< 0.01	< 0.01
	Sum of PFOS+PFOA	0.01	µg/L	-	0.02	0.01	0.02	0.02	0.12	0.03	0.06	0.07	< 0.01	< 0.01	< 0.01	< 0.01

mg/L milligrams per litre
µg/L micrograms per litre
LOR limit of reporting
PS primary sample

Criteria Criteria adopted from Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality - 'Primary Industries: Water quality for irrigation and general water use', 2000, and/or Heads of EPAs Australia and New Zealand - National Chemicals Working Group, 'PFAS National Environmental Management Plan' (Version 3.0, 2025) - 'Ecological water quality guideline values (99% protection), and/or NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2025

within criteria
criteria exceeded