

TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS  
JUNE 2023 - FEBRUARY 2024

SURFACE WATER



Group	Analyte	LOR	Units	Criteria	Sample ID								
					Sample Date / Time	SW1 08/06/2023	SW1 24/07/2023	SW1 02/08/2023	SW1 05/10/2023	SW1 09/11/2023	SW1 21/12/2023	SW1 18/01/2024	SW1 19/02/2024
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	PS	PS	PS	PS	PS	PS	PS	PS	PS
	Electrical Conductivity (Lab)	2	µS/cm	4478	7.9	8.2	8.3	7.9	7.8	8.4	7.3	7.2	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	7	5	< 5	< 5	6	< 5	
	Total Suspended Solids	5	mg/L	30	9	11	13	15	24	18	30	59	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	260	260	260	270	270	160	200	80	
Anions	Chloride	1	mg/L	350	820	610	620	620	790	710	780	190	
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	0.17	0.19	0.18	0.12	-	0.17	
	Sulfate (SO4)	1	mg/L	1000	81	68	72	52	39	43	35	16	
Cations	Calcium (Ca)	0.1	mg/L	1000	130	110	120	120	120	90	110	33	
	Magnesium (Mg)	0.1	mg/L	-	150	120	140	150	170	140	150	30	
	Potassium (K)	0.2	mg/L	-	7.3	13	8.6	14	11	11	9.6	11	
	Sodium (Na)	0.1	mg/L	230	210	170	170	160	190	160	170	61	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	13	12	12	17	18	16	16	18	
	Dissolved Organic Carbon as NPOC	0.2	mg/L	-	-	-	-	-	-	-	15	-	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.02	0.03	0.01	0.02	0.19	0.02	0.09	0.18	
	Nitrate (NO3) as N	0.005	mg/L	-	0.1	0.013	-	0.039	< 0.005	-	-	0.33	
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	< 0.025	-	-	< 0.025	< 0.025	-	
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.015	0.048	0.039	0.28	0.037	0.009	0.031	0.2	
	Manganese (Mn)	0.001	mg/L	0.2	0.082	0.31	0.21	1.2	0.78	0.31	1.2	0.019	
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	

- mg/L milligrams per litre
- µS/cm microsiemens per centimetre
- LOR limit of reporting
- PS primary sample
- RB rinsate blank
- FD field duplicate
- FT field triplicate

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 *NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2013*

within criteria  
 criteria exceeded