

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
APRIL 2024 - JUNE 2024

SURFACE WATER



Group	Analyte	LOR	Units	Criteria	Sample ID		
					Sample Date / Time	SW1	SW1
					08/04/2024	14/05/2024	03/06/2024
					PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	8.1	8.3	8
	Electrical Conductivity (Lab)	2	µS/cm	4478	1400	2100	2400
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	27	15	22
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	120	130	150
Anions	Chloride	1	mg/L	350	350	640	730
	Fluoride	0.1	mg/L	1	0.16	0.12	< 0.1
	Sulfate (SO4)	1	mg/L	1000	27	48	52
Cations	Calcium (Ca)	0.1	mg/L	1000	-	88	96
	Calcium (Ca)	0.2	mg/L	1000	60	-	-
	Magnesium (Mg)	0.1	mg/L	-	62	120	130
	Potassium (K)	0.1	mg/L	-	8.5	-	-
	Potassium (K)	0.2	mg/L	-	-	5.5	8.9
	Sodium (Na)	0.1	mg/L	230	-	150	160
	Sodium (Na)	0.5	mg/L	230	91	-	-
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	15	11	12
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.14	0.04	0.03
	Nitrate (NO3) as N	0.005	mg/L	-	0.13	0.026	< 0.005
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.072	0.015	0.08
	Manganese (Mn)	0.001	mg/L	0.2	0.096	0.072	0.081
Phenolics	Total Phenols	0.05	mg/L	-	< 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
Heads of EPAs Australia and New Zealand - National Chemicals Working Group, 'PFAS National Environmental Management Plan' (Version 2.0, January 2020)
and/or
NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2013

within criteria
criteria exceeded