

TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
OCTOBER 2021 - JANUARY 2022 SURFACE WATER



Group	Analyte	LOR	Units	Criteria	Sample ID	SW1	SW1	SW1	SW1
					Sample Date / Time	11/10/2021 00:00	8/11/2021 00:00	16/12/2021 00:00	18/01/2022 00:00
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	8.8	7.9	8.6	7.3	
	Electrical Conductivity (Lab)	2	µS/cm	4478	1100	860	810	780	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	
	Total Suspended Solids	5	mg/L	30	< 5	25	9	25	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	120	120	140	250	
Anions	Chloride	1	mg/L	350	260	320	210	130	
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	0.16	
	Sulfate (SO4)	1	mg/L	1000	14	26	8.3	46	
Cations	Calcium (Ca)	0.1	mg/L	1000	39	-	-	-	
	Calcium (Ca)	0.2	mg/L	1000	-	48	37	51	
	Magnesium (Mg)	0.1	mg/L	-	41	42	34	29	
	Potassium (K)	0.1	mg/L	-	-	3.6	7.2	34	
	Potassium (K)	0.2	mg/L	-	3.6	-	-	-	
	Sodium (Na)	0.1	mg/L	230	120	-	-	-	
	Sodium (Na)	0.5	mg/L	230	-	93	94	110	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	20	23	28	36	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.04	0.22	0.18	0.07	
	Nitrate (NO3) as N	0.005	mg/L	-	0.035	0.39	0.38	0.24	
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.39	1.1	1.2	0.14	
	Manganese (Mn)	0.001	mg/L	0.2	0.17	0.9	0.23	0.36	
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	-	-	-	
	Total Phenols	0.05	mg/L	-	-	< 0.05	< 0.05	< 0.05	
		0	0		-	-	-	-	
		0	0		-	-	-	-	

mg/L milligrams per litre
µg/L micrograms per litre
µS/cm microsiemens per centimetre
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'
and/or
NSW EPA *Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits'*, 2013
within criteria
criteria exceeded