

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

GROUNDWATER



Group	Analyte	LOR	Units	Criteria	Sample ID	BH1	BH2	BH4	BH6	BH6B	BH9	BH10	BH12
					Sample Date / Time	06/08/2024	06/08/2024	07/08/2024	06/08/2024	06/08/2024	06/08/2024	06/08/2024	06/08/2024
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	PS	7	6.8	6.8	6.6	6.6	6.6	5.8	6.9
	Electrical Conductivity (Lab)	2	µS/cm	4478		830	4000	5000	8000	8700	670	8000	2500
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350		340	570	590	520	630	150	150	400
Anions	Chloride	1	mg/L	350		65	1100	1200	2600	2800	110	2800	360
	Fluoride	0.1	mg/L	1		< 0.1	0.18	0.24	0.16	0.2	< 0.1	< 0.1	0.1
	Sulfate (SO4)	1	mg/L	1000		18	63	410	210	200	32	71	380
Cations	Calcium (Ca)	0.1	mg/L	1000		64	300	360	780	790	43	670	200
	Magnesium (Mg)	0.1	mg/L	-		35	240	310	460	500	35	510	150
	Potassium (K)	0.2	mg/L	-		3.1	4.2	3.6	1	1.2	1.4	0.6	1.1
	Sodium (Na)	0.1	mg/L	230		43	96	180	140	180	17	86	86
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-		0.9	3.7	7.6	3.1	4.8	1.7	3.4	15
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-		0.02	0.05	-	-	-	0.07	0.06	0.01
	Ammonia (NH3) as N	0.05	mg/L	-		-	-	< 0.05	< 0.05	< 0.05	-	-	-
	Nitrate (NO3) as N	0.005	mg/L	-		2.1	1.2	8.9	-	-	0.008	-	33
	Nitrate (NO3) as N	0.05	mg/L	-		-	-	-	< 0.05	-	-	< 0.05	-
	Nitrate (NO3) as N	0.1	mg/L	-		-	-	-	-	< 0.1	-	-	-
Trace Metals	Copper (Cu)	0.001	mg/L	0.2		< 0.001	0.004	0.014	< 0.001	0.004	0.004	0.007	0.005
	Iron (Fe)	0.005	mg/L	0.2		0.012	< 0.005	0.064	0.15	0.65	0.13	1.5	0.006
	Manganese (Mn)	0.001	mg/L	0.2		0.002	0.016	0.23	0.81	1.4	0.55	3.7	0.032
	Mercury (Hg)	0.0001	mg/L	0.002		< 0.0001	0.0005	< 0.0001	< 0.0001	< 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

mg/L milligrams 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', 2000*

within criteria

criteria exceeded