

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
 FEBRUARY 2021 - MARCH 2021



Group	Analyte	LOR	Units	Criteria	Sample ID				
					BH1	BH2	BH4	BH4S	BH6
Sample Date / Time					11/02/2021 09:45	11/02/2021 11:25	11/02/2021 11:50	11/02/2021 13:05	11/02/2021 10:10
					PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.5	6.4	6.5	6.6	6.2
	Electrical Conductivity (Lab)	2	µS/cm	4478	2800	3800	3000	2700	5500
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	740	850	510	390	410
Anions	Chloride	1	mg/L	350	680	1100	740	670	2000
	Fluoride	0.1	mg/L	1	0.11	0.16	0.24	0.26	0.15
	Sulfate (SO4)	1	mg/L	1000	28	27	250	220	220
Cations	Calcium (Ca)	0.1	mg/L	1000	300	400	270	180	640
	Magnesium (Mg)	0.1	mg/L	-	230	320	240	220	440
	Potassium (K)	0.2	mg/L	-	2.1	2.9	1.9	0.8	1.2
	Sodium (Na)	0.1	mg/L	230	95	120	160	160	130
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	3.9	6.6	5.9	4	2.4
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	< 0.01	1.4	0.01	< 0.01	-
	Ammonia (NH3) as N	0.05	mg/L	-	-	-	-	-	< 0.05
	Ammonia (NH3) as N	0.02	mg/L	-	-	-	-	-	-
	Nitrate (NO3) as N	0.005	mg/L	-	0.18	0.047	7	6.1	-
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	-	-	-
	Nitrate (NO3) as N	0.05	mg/L	-	-	-	-	-	< 0.05
	Ammonium (NH4)	0.01	mg/L	-	-	-	-	-	-
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	< 0.001	0.011	0.003	0.003
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.006	< 0.005	< 0.005	< 0.005
	Manganese (Mn)	0.001	mg/L	0.2	0.022	0.11	0.12	0.006	0.38
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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

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 FEBRUARY 2021 - MARCH 2021



Group	Analyte	LOR	Units	Criteria	Sample ID				
					BH6B	BH9	BH10	BH12	SW1
Sample Date / Time					11/02/2021 12:15	11/02/2021 12:40	11/02/2021 10:35	11/02/2021 11:00	12/03/2021 15:00
					PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.3	5.7	5.6	6.5	6.5
	Electrical Conductivity (Lab)	2	µS/cm	4478	6500	3800	5500	2500	140
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5
	Total Suspended Solids	5	mg/L	30	-	-	-	-	230
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	510	150	130	440	23
Anions	Chloride	1	mg/L	350	2400	1400	2100	500	25
	Fluoride	0.1	mg/L	1	0.22	< 0.1	< 0.1	0.21	< 0.1
	Sulfate (SO4)	1	mg/L	1000	170	74	44	210	2.8
Cations	Calcium (Ca)	0.1	mg/L	1000	640	360	490	250	5.1
	Magnesium (Mg)	0.1	mg/L	-	510	320	460	200	3.3
	Potassium (K)	0.2	mg/L	-	1.3	0.7	0.6	1.6	6.7
	Sodium (Na)	0.1	mg/L	230	200	69	85	80	11
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	6.1	2.6	2.9	14	23
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	-	-	-	< 0.01	0.16
	Ammonia (NH3) as N	0.05	mg/L	-	< 0.05	-	< 0.05	-	-
	Ammonia (NH3) as N	0.02	mg/L	-	-	< 0.02	-	-	-
	Nitrate (NO3) as N	0.005	mg/L	-	0.086	-	-	39	0.69
	Nitrate (NO3) as N	0.025	mg/L	-	-	< 0.025	-	-	-
	Nitrate (NO3) as N	0.05	mg/L	-	-	-	< 0.05	-	-
	Ammonium (NH4)	0.01	mg/L	-	-	-	-	-	0.09
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	0.006	0.01	< 0.001	0.013	-
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	0.011	2.5	< 0.005	0.28
	Manganese (Mn)	0.001	mg/L	0.2	0.24	0.4	2	0.01	0.008
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	< 0.0001	0.0003	-
Phenolics	Total Phenols	0.01	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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*

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