

**TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS  
SEPTEMBER 2022**

**GROUNDWATER**



	Sample ID					BH1	BH2	BH4	BH6
		Sample Date / Time				6/09/2022 10:15	6/09/2022 11:55	6/09/2022 10:40	6/09/2022 11:30
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.7	6.3	6.8	6.7	
	Electrical Conductivity (Lab)	2	µS/cm	4478	820	2900	2600	6900	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	320	530	460	400	
Anions	Chloride	1	mg/L	350	76	730	540	2500	
	Fluoride	0.1	mg/L	1	0.14	0.11	0.19	0.11	
	Sulfate (SO4)	1	mg/L	1000	19	70	230	210	
Cations	Calcium (Ca)	0.2	mg/L	1000	74	250	200	690	
	Magnesium (Mg)	0.1	mg/L	-	44	200	180	490	
	Potassium (K)	0.1	mg/L	-	1	2.4	4.6	1.5	
	Sodium (Na)	0.5	mg/L	230	50	98	140	150	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	0.9	3.1	6.8	3.1	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.04	0.02	< 0.01	0.09	
	Nitrate (NO3) as N	0.005	mg/L	-	2.6	1.4	3.7	0.064	
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	< 0.001	0.005	0.011	0.006	
	Iron (Fe)	0.005	mg/L	0.2	< 0.005	< 0.005	< 0.005	0.087	
	Manganese (Mn)	0.001	mg/L	0.2	0.004	0.008	0.023	0.35	
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	0.0019	< 0.0001	< 0.0001	
Phenolics	Total Phenols	0.05	mg/L	-	< 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'*
- within criteria  
 criteria exceeded

**TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS  
SEPTEMBER 2022**

**GROUNDWATER**



	Sample ID					BH6B	BH9	BH10	BH12
		Sample Date / Time				6/09/2022 13:35	6/09/2022 11:05	6/09/2022 13:10	6/09/2022 12:45
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	
Physical Parameters	pH (Lab)	0	No unit	6.0 - 8.5	6.9	6.2	5.7	6.5	
	Electrical Conductivity (Lab)	2	µS/cm	4478	3600	410	1600	2600	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	700	82	90	370	
Anions	Chloride	1	mg/L	350	850	72	490	460	
	Fluoride	0.1	mg/L	1	< 0.1	< 0.1	< 0.1	0.18	
	Sulfate (SO4)	1	mg/L	1000	5.3	16	17	320	
Cations	Calcium (Ca)	0.2	mg/L	1000	88	26	130	240	
	Magnesium (Mg)	0.1	mg/L	-	98	24	100	180	
	Potassium (K)	0.1	mg/L	-	6.9	1.5	0.4	1.6	
	Sodium (Na)	0.5	mg/L	230	580	16	32	92	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	33	3.8	1.7	15	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.1	0.03	0.04	0.01	
	Nitrate (NO3) as N	0.005	mg/L	-	0.28	0.041	0.095	39	
Trace Metals	Copper (Cu)	0.001	mg/L	0.2	0.008	0.011	0.001	0.004	
	Iron (Fe)	0.005	mg/L	0.2	0.14	1	< 0.005	0.059	
	Manganese (Mn)	0.001	mg/L	0.2	4.5	0.24	0.93	0.006	
	Mercury (Hg)	0.0001	mg/L	0.002	< 0.0001	< 0.0001	< 0.0001	0.0003	
Phenolics	Total Phenols	0.05	mg/L	-	< 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'*
- within criteria  
 criteria exceeded

**TABLE 3: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS**  
**MAY 2022 - SEPTEMBER 2022** **SURFACE WATER**



Group	Analyte	LOR	Units	Criteria	Sample ID		
					Sample Date / Time	SW1	SW1
					31/05/2022 12:00	10/08/2022 12:00	6/09/2022 14:00
					PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	7.5	7.8	7.9
	Electrical Conductivity (Lab)	2	µS/cm	4478	1500	790	1100
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	8
	Total Suspended Solids	5	mg/L	30	5	23	44
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	180	110	170
Anions	Chloride	1	mg/L	350	340	190	250
	Fluoride	0.1	mg/L	1	0.13	< 0.1	0.11
	Sulfate (SO4)	1	mg/L	1000	32	17	23
Cations	Calcium (Ca)	0.2	mg/L	1000	65	43	58
	Magnesium (Mg)	0.1	mg/L	-	62	35	51
	Potassium (K)	0.1	mg/L	-	7.4	5.1	5.9
	Sodium (Na)	0.5	mg/L	230	110	71	96
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	16	18	20
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.12	0.19	0.06
	Nitrate (NO3) as N	0.005	mg/L	-	0.67	0.64	1.3
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	0.71	1.3	0.45
	Manganese (Mn)	0.001	mg/L	0.2	0.18	0.55	0.72
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
  - 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'*
- within criteria  
 criteria exceeded