

TABLE 2: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
FEBRUARY 2018



					Sample ID	BH1	BH2	BH4	BH4S	BH6	BH12	SW1
					Sample Date	13/02/2018	13/02/2018	13/02/2018	13/02/2018	13/02/2018	13/02/2018	13/02/2018
Group	Analyte	LOR	Units	Criteria	PS	PS	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	6.8	6.4	6.5	6.6	6.1	6.5	8.4	
	Electrical Conductivity (Lab)	2	µS/cm	4478	900	3800	3700	2900	6200	2900	3500	
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
	Total Suspended Solids	5	mg/L	30	-	-	-	-	-	-	-	81
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	310	610	490	490	420	400	79	
Anions	Chloride	1	mg/L	350	82	1000	800	490	2000	490	1100	
	Fluoride	0.1	mg/L	1	0.18	0.16	0.24	0.3	0.16	0.21	0.28	
	Sulfate (SO4)	1	mg/L	-	19	44	280	320	210	220	14	
Cations	Calcium (Ca)	0.2	mg/L	1000	69	290	240	160	550	230	110	
	Magnesium (Mg)	0.1	mg/L	-	41	230	220	190	350	170	160	
	Potassium (K)	0.1	mg/L	-	0.9	1.8	1.4	0.8	1	1.3	14	
	Sodium (Na)	0.5	mg/L	230	37	94	150	130	110	73	260	
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	5.7	12	12	11	8.6	19	20	
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	0.16	0.27	0.11	0.03	0.16	0.07	0.06	
	Nitrate (NO3) as N	0.005	mg/L	-	2.4	0.11	9.1	6.3	-	43	< 0.005	
	Nitrate (NO3) as N	0.025	mg/L	-	-	-	-	-	< 0.025	-	-	
Trace Metals	Copper (Cu)	1	µg/L	200	< 1	< 1	5	2	< 1	3	-	
	Iron (Fe)	5	µg/L	200	< 5	14	< 5	< 5	< 5	< 5	13	
	Manganese (Mn)	1	µg/L	200	3	14	78	350	310	12	5	
	Mercury (Hg)	0.0001	mg/L	2	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	
Phenolics	Total Phenols	0.01	mg/L	-	0.02	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.03	

mg/L milligrams per litre

µg/L micrograms per litre

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