

### BH3 - EPL Monitoring Point 4

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	2.7	3	3.1	3.3	2.8	2.6	2.46	2.8	2.66	2.43
	Bicarbonate Alkalinity (as CaCO3)	mg/L	780	1200	850	890	880	910	850	880	848	712
	Calcium	mg/L	370	370	350	420	430	460	315	430	343	302
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	10000	10000	9300	8600	8600	9400	8700	8600	8890	8280
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	680	740	670	860	830	950	712	830	769	751
	Nitrate & Nitrite (as N)	mg/L	1.3	0.05	0.1	0.05	0.05	0.05	0.02	0.05	0.01	0.01
	Nitrate (as N)	mg/L	0.35	0.02	0.06	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	Nitrite (as N)	mg/L	0.97	0.02	0.04	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.05	0.05	0.34	0.01	0.02	0.03	0.06	0.02	0.05	0.09
	Potassium	mg/L	42	42	40	49	45	42	34	45	35	30
	Sodium	mg/L	4300	4100	3800	5100	4700	4900	3970	4700	4270	4060
	Sulphate (as SO4)	mg/L	210	330	190	190	300	340	330	300	300	333
	Total Alkalinity (as CaCO3)	mg/L	780	1200	850	890	880	910	850	880	848	712
	Total Dissolved Solids	mg/L	14000	13000	15000	15000	20000	17000	17000	20000	18600	15500
	Total Organic Carbon	mg/L	5	40	91	5.5	5	5	1	5	19	20
	pH	pH	6.3	6.5	6.5	6.7	6.5	6.4	6.4	6.5	6.9	6.5
	Redox	mV	-114.7	-165.8	-187.1	-240.8	-101.7	-100.7	-89.1	-101.7	-59.9	-63.1
Standing Water Level	mAHD	30.5	30.6	30.7	30.7	30.6	30.7	30.5	30.6	31.3	31.0	
Temperature	°C	19.7	19.1	18.7	19.9	18.9	20.4	19.7	18.9	20.6	18.5	



BH3 - EPL Monitoring Point 4													
Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24	
<b>Quarterly</b>	Ammonia (as N)	mg/L	2.54	2.26	2.27	3.31	2.53	3.6	2.4	4	3.2	3.6	
	Bicarbonate Alkalinity (as CaCO3)	mg/L	865	862	862	826	907	920	570	790	760	860	
	Calcium	mg/L	344	330	304	393	330	370	240	370	350	380	
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20	
	Chloride	mg/L	9020	8630	8730	8770	8340	9300	5400	7800	9,600	8300	
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20	
	Magnesium	mg/L	764	741	770	691	792	750	360	620	770	710	
	Nitrate & Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.05	0.05	0.08
	Nitrate (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.22	<0.02	0.04	0.08
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.05	0.29	1.4	0.1	0.01	0.15	0.04	0.05	0.07	
	Potassium	mg/L	36	32	34	41	34	46	33	47	36	50	
	Sodium	mg/L	4220	4150	4490	4080	4320	4200	2200	3600	4200	3800	
	Sulphate (as SO4)	mg/L	326	314	303	213	253	150	870	120	250	110	
	Total Alkalinity (as CaCO3)	mg/L	865	862	862	826	907	920	570	790	760	860	
	Total Dissolved Solids	mg/L	17000	22800	18400	19300	16800	16000	11000	17000	16,000	18000	
	Total Organic Carbon	mg/L	13	2	1	2	1	5	<5	<5	<5	180	
	pH	pH	6.6	6.66	7.08	6.54	6.02	6.11	5.72	6	6.08	6.03	
	Redox	mV	-130.7	-79.90	-3.60	-184.40	8.82	-47.4	-96.4	-129.7	-133.7	-105.2	
Standing Water Level	mAHD	30.7	30.62	30.62	30.50	30.38		21.93	22.12	21.10	20.84		
Temperature	°C	18.4	19.40	18.90	19.00	18.8	22.6	20.1	19.1	16.5	19.1		



BH3 - EPL Monitoring Point 4							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	0.94	0.01	0.01	<0.25
	Arsenic	mg/L	0.001	0.006	0.001	0.001	<0.005
	Barium	mg/L	1.2	15.6	0.241	0.169	0.7
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.0005	0.0005	<0.0001
	Cadmium	mg/L	0.0004	0.0001	0.0001	0.0001	<0.001
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.005
	Chromium (total)	mg/L	0.001	0.002	0.001	0.001	<0.005
	Cobalt	mg/L	0.001	0.002	0.001	0.001	<0.005
	Copper	mg/L	0.01	0.007	0.001	0.001	0.076
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.7	0.4	0.4	0.4	<5
	Lead	mg/L	0.002	0.005	0.001	0.001	0.008
	Manganese	mg/L	0.34	0.36	0.333	0.343	0.31
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0005
	Nickel	mg/L	0.023	0.008	0.001	0.024	0.071
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.0005	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.001	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.024	0.044	0.005	0.028	0.22	



SKIP BINS



COMMERCIAL & LIQUID WASTE



RECYCLING CENTRES



CONTAMINATED WASTE & SOILS



ECO PRODUCT



### BH5 - EPL Monitoring Point 5

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.51	0.5	0.22	0.26	0.44	0.18	0.01	0.44	0.06	0.06
	Bicarbonate Alkalinity (as CaCO3)	mg/L	960	860	480	560	490	490	323	490	283	290
	Calcium	mg/L	120	120	100	110	120	120	49	120	38	31
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	2900	2500	2800	2900	2700	2700	2870	2700	2570	2470
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	160	170	180	220	190	230	169	190	163	157
	Nitrate & Nitrite (as N)	mg/L	0.08	0.05	0.13	0.05	0.05	0.05	0.01	0.05	0.01	0.01
	Nitrate (as N)	mg/L	0.08	0.02	0.13	0.02	0.02	0.03	0.01	0.02	0.01	0.01
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.1	0.4	0.41	0.02	0.05	0.04	0.04	0.05	0.02	0.08
	Potassium	mg/L	6.4	9.8	6.9	12.5	6.6	5.5	3	6.6	2	2
	Sodium	mg/L	1200	1200	1300	1700	1700	1700	1500	1700	1510	1430
	Sulphate (as SO4)	mg/L	240	270	220	240	290	340	399	290	519	525
	Total Alkalinity (as CaCO3)	mg/L	960	860	480	560	490	490	323	490	283	290
	Total Dissolved Solids	mg/L	4500	3700	4700	4500	4600	4400	5360	4600	5060	4690
	Total Organic Carbon	mg/L	5.4	34	61	21	5	5	2	5	2	6
	pH	pH	6.5	6.6	6.49	5.9	6.3	6.1	6.1	6.3	6.3	5.8
	Redox	mV	49.3	-81.2	80.1	-258.4	43.5	38.3	48.5	43.5	80.4	146.6
	Standing Water Level	mAHD	29.8	29.9	30.02	30.1	30.0	30.2	30.2	30.0	30.5	30.9
Temperature	°C	18.4	18.1	16.6	18.4	17.7	18.4	18.0	17.7	18.1	17.6	



### BH5 - EPL Monitoring Point 5

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
Quarterly	Ammonia (as N)	mg/L	0.64	0.69	0.61	0.11	0.01	0.08	0.28	0.1	0.04	0.57
	Bicarbonate Alkalinity (as CaCO3)	mg/L	560	655	556	302	327	440	590	430	330	680
	Calcium	mg/L	144	161	143	40	37	62	140	100	40	140
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20
	Chloride	mg/L	3320	3280	2980	2250	2270	2200	2600	1900	2000	2900
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	221	231	203	138	158	170	200	160	140	230
	Nitrate & Nitrite (as N)	mg/L	0.01	0.01	0.01	0.04	0.07	0.08	0.11	0.19	0.08	0.33
	Nitrate (as N)	mg/L	0.01	0.01	0.01	0.04	0.07	0.08	0.11	0.19	0.07	0.32
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.06	0.05	0.03	0.05	0.06	0.04	0.58	0.43	0.13
	Potassium	mg/L	9	10	10	4	2	4.4	8.3	4.8	2.8	8.6
	Sodium	mg/L	1660	1690	1700	1360	1450	1500	1400	1200	1300	1500
	Sulphate (as SO4)	mg/L	255	219	374	506	344	310	440	350	490	150
	Total Alkalinity (as CaCO3)	mg/L	560	655	556	302	327	440	590	430	330	680
	Total Dissolved Solids	mg/L	5980	6550	5700	4520	5430	4800	5500	5300	4000	6900
	Total Organic Carbon	mg/L	11	4	2	2	2	5	<5	14	23	51
	pH	pH	6.6	6.6	6.3	6.1	6.12	5.73	6.36	5.98	5.41	6.47
Redox	mV	-150.9	-163.0	29.3	3.9	164.6	149.1	70.1	132.3	225.4	28.5	
Standing Water Level	mAHD	30.5	30.4	30.1	30.2	29.95		24.34	24.83	40.24	40.06	
Temperature	°C	16.5	18.6	18.4	17.7	16.9	18.9	19.2	18.3	17.6	18.1	



### BH5 - EPL Monitoring Point 5

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
<b>Yearly</b>	Aluminium	mg/L	0.05	0.36	0.01	0.01	<0.05
	Arsenic	mg/L	0.001	0.003	0.001	0.001	0.002
	Barium	mg/L	0.11	0.237	0.182	0.039	0.05
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.0005	<0.0001
	Cadmium	mg/L	0.0009	0.0001	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.001	0.001	0.002
	Chromium (total)	mg/L	0.001	0.001	0.001	0.001	0.002
	Cobalt	mg/L	0.005	0.007	0.002	0.002	0.002
	Copper	mg/L	0.068	0.002	0.001	0.001	0.021
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.7	0.3	0.4	0.4	<1
	Lead	mg/L	0.003	0.001	0.001	0.001	0.003
	Manganese	mg/L	0.79	0.776	0.695	0.514	0.32
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.02	0.007	0.003	0.005	0.023
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.002
	PAHs	mg/L	0.001	0.0005	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.001	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.5	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.18	0.009	0.005	0.005	0.068	



SKIP  
BINS



COMMERCIAL &  
LIQUID WASTE



RECYCLING  
CENTRES



CONTAMINATED  
WASTE & SOILS



ECO  
PRODUCT



QUALITY MANAGEMENT SYSTEM



### BH6 - EPL Monitoring Point 6

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.008	0.08	0.1	0.12	0.08	0.01	0.1	0.08	0.16	0.1
	Bicarbonate Alkalinity (as CaCO3)	mg/L	110	220	81	68	63	73	191	63	68	92
	Calcium	mg/L	18	43	12	12.5	4.1	5	29	4.1	1	6
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	6800	8100	7000	5900	6200	5600	6090	6200	6120	5660
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	380	420	420	450	510	380	359	510	374	336
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.02	0.01
	Nitrate (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.05	0.01	0.02	0.02	0.01
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.88	1.5	1.2	0.99	0.7	0.15	0.87	0.7	0.76	0.18
	Potassium	mg/L	5	7.5	5	12.5	7.1	5	1	7.1	1	1
	Sodium	mg/L	0	3100	3300	3600	4000	2900	2860	4000	3060	2830
	Sulphate (as SO4)	mg/L	220	270	160	150	200	180	186	200	174	177
	Total Alkalinity (as CaCO3)	mg/L	110	220	81	68	63	73	191	63	68	92
	Total Dissolved Solids	mg/L	11000	10000	9500	11000	9800	7900	10800	9800	11000	9370
	Total Organic Carbon	mg/L	270	23	38	6	7.6	5	7	7.6	21	14
	pH	pH	5.5	5.57	5.69	5.47	5.5	4.66	5.15	5.5	5.52	5.56
	Redox	mV	-641.2	77.9	-9.9	67.9	99.7	116.4	109.4	99.7	110.7	98.6
Standing Water Level	mAHD	38.3	38.62	38.64	38.75	38.46	38.82	38.31	38.46	38.92	39.38	
Temperature	°C	20.5	19.4	18.5	19.2	19.5	20.3	18.7	19.5	21.2	18.2	



### BH6 - EPL Monitoring Point 6

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
Quarterly	Ammonia (as N)	mg/L	0.04	0.1	0.07	0.17	0.07	6.7	4.5	1.2	0.66	4.4
	Bicarbonate Alkalinity (as CaCO3)	mg/L	73	73	60	69	72	590	460	190	110	450
	Calcium	mg/L	3	3	3	7	3	330	290	85	31	290
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	0.1	1	1	<20	<20	<20	<10	<20
	Chloride	mg/L	5560	5410	0.1	6330	6130	6700	6400	6300	6000	6200
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	0.1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	309	328	372	379	461	400	430	400	380	410
	Nitrate & Nitrite (as N)	mg/L	0.03	0.01	0.01	0.05	0.01	0.02	0.08	0.31	0.06	<0.05
	Nitrate (as N)	mg/L	0.02	0.01	0.01	0.03	0.01	0.02	0.08	0.31	0.06	0.04
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.02	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.03	0.05	0.79	0.04	0.01	0.24	0.35	<0.01	0.48
	Potassium	mg/L	1	1	1	1	1	64	64	14	5.9	52
	Sodium	mg/L	2640	2730	3080	3050	3460	3100	3200	3000	3000	3000
	Sulphate (as SO4)	mg/L	166	173	195	200	190	190	83	140	160	<100
	Total Alkalinity (as CaCO3)	mg/L	73	73	60	69	72	590	460	190	110	450
	Total Dissolved Solids	mg/L	8780	10400	10700	11800	11200	13000	13000	13000	8200	14000
	Total Organic Carbon	mg/L	14	10	10	13	10	15	<5	<5	16	<5
	pH	pH	5.58	6.7	5.4	5.5	5.44	5.53	5.72	5.81	5.65	6.31
	Redox	mV	125.3	50.2	93.5	127.9	87.1	47.3	52	76	111.2	-23.3
Standing Water Level	mAHD	39.12	39.1	38.5	35.7	36.9		31.56	31.43	36.11	36.24	
Temperature	°C	16.8	18.7	19.7	19.0	17.3	18.9	20.04	20.8	19.3	22	





BH6 - EPL Monitoring Point 6							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	11.5	0.02	0.01	<0.05
	Arsenic	mg/L	0.001	0.008	0.001	0.001	<0.001
	Barium	mg/L	0.13	0.365	0.113	0.122	0.28
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.0005	<0.0001
	Cadmium	mg/L	0.0006	0.0002	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.001
	Chromium (total)	mg/L	0.001	0.016	0.001	0.001	<0.001
	Cobalt	mg/L	0.056	0.08	0.052	0.071	0.047
	Copper	mg/L	0.092	0.074	0.005	0.001	0.002
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.5	0.2	0.2	0.3	<1
	Lead	mg/L	0.004	0.019	0.001	0.001	<0.001
	Manganese	mg/L	1.8	1.9	1.43	2.4	2.1
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.088	0.054	0.013	0.015	0.053
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.002
	PAHs	mg/L	0.001	0.0005	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.001
	Selenium	mg/L	0.003	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.2	0.05	0.1	0.1	<0.001
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.003	
Zinc	mg/L	0.18	0.11	0.021	0.011	0.016	



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### BH9A - EPL Monitoring Point 7

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	1.3	1.4	0.86	1.2	2.8	0.02	1.12	2.8	1.14	1.3
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1600	1500	1300	1300	1200	1400	1150	1200	1200	1000
	Calcium	mg/L	270	290	280	340	380	340	270	380	287	240
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	8900	7800	8400	7600	7800	7400	7610	7800	6990	7410
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	950	1000	960	1100	940	1200	852	940	958	892
	Nitrate & Nitrite (as N)	mg/L	0.26	0.05	0.22	0.84	0.05	0.9	0.01	0.05	1	0.03
	Nitrate (as N)	mg/L	0.03	0.02	0.08	0.14	0.02	0.9	0.01	0.02	1	0.03
	Nitrite (as N)	mg/L	0.23	0.03	0.14	0.7	0.02	0.02	0.01	0.02	1	0.01
	Phosphate total (as P)	mg/L	0.05	0.05	0.11	0.2	0.02	0.66	0.1	0.02	0.05	0.35
	Potassium	mg/L	24	28	23	41	48	27	26	48	25	24
	Sodium	mg/L	4500	4200	4000	4700	4100	4600	3690	4100	4050	3830
	Sulphate (as SO4)	mg/L	1800	1700	1500	1400	1700	1700	1630	1700	1610	1510
	Total Alkalinity (as CaCO3)	mg/L	1600	1500	1300	1300	1200	1400	1150	1200	1200	1000
	Total Dissolved Solids	mg/L	16000	7000	14000	13000	16000	11000	16000	16000	16600	15300
	Total Organic Carbon	mg/L	7.7	16	100	5	5	5	4	5	1	6
	pH	pH	6.2	6.5	6.5	6.6	6.6	N/A	6.5	6.6	6.6	6.9
	Redox	mV	55.1	25.4	38.6	-56.2	-92.9	N/A	27.6	-92.9	-14.2	-13.8
Standing Water Level	mAHD	43.9	43.9	44.0	43.8	43.8	43.8	43.7	43.8	43.6	43.5	
Temperature	°C	19.8	19.4	19.3	20.0	22.1	N/A	19.1	22.1	19.8	18.9	



### BH9A - EPL Monitoring Point 7

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	1.24	1.19	1.06	1.23	0.10	3.0	2.9	2.1	3.2	2.6
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1210	1210	1190	1160	1190	1500	1200	1200	1200	1300
	Calcium	mg/L	282	285	279	304	297	340	390	280	340	140
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	< 20
	Chloride	mg/L	7970	8010	7530	7840	8200	7900	8000	8000	8000	7600
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	895	908	953	925	928	930	950	860	960	880
	Nitrate & Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.02	<0.02	0.47	0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.02	<0.02	0.43	0.05	<0.02
	Nitrite (as N)	mg/L	0.02	0.01	0.01	0.01	0.01	0.01	<0.02	0.04	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.1	0.12	1.17	0.06	5.96	0.04	0.41	0.53	0.72	0.38
	Potassium	mg/L	26	24	34	24	31	42	60	30	38	40
	Sodium	mg/L	3880	3950	4290	4040	4010	4100	3900	4200	4200	3700
	Sulphate (as SO4)	mg/L	1720	1590	1630	1700	1580	1600	1500	1600	1500	1300
	Total Alkalinity (as CaCO3)	mg/L	1210	1210	1190	1160	1190	1500	1200	1200	1200	1300
	Total Dissolved Solids	mg/L	16400	19200	17600	17400	15600	16000	17000	16000	17000	18000
	Total Organic Carbon	mg/L	36	2	1	1	2	11	<5	<5	<5	92
	pH	pH	6.6	6.5	7.6	6.4	6.34	5.81	5.78	6.47	6.38	5.84
	Redox	mV	28.1	12.1	-85.2	30.4	70.6	64.1	0.5	-159.5	-167.6	82.9
	Standing Water Level	mAHD	43.6	43.6	43.4	43.4	43.38	43.42	43.37	43.4	43.39	53.45
Temperature	°C	19.1	20.0	20.2	19.0	19.6	19.8	22	20.7	19	19.9	



### BH9A - EPL Monitoring Point 7

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	1.38	0.1	0.09	<0.25
	Arsenic	mg/L	0.001	0.002	0.001	0.001	<0.005
	Barium	mg/L	0.02	0.032	0.029	0.041	<0.1
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.0005	0.0005	<0.0001
	Cadmium	mg/L	0.0003	0.0001	0.0001	0.0001	<0.001
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.005
	Chromium (total)	mg/L	0.001	0.003	0.001	0.001	<0.005
	Cobalt	mg/L	0.001	0.002	0.001	0.001	<0.005
	Copper	mg/L	0.084	0.007	0.004	0.005	0.009
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.5	0.4	0.4	0.4	<5
	Lead	mg/L	0.002	0.004	0.001	0.001	<0.005
	Manganese	mg/L	0.24	0.333	895	0.24	0.27
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0005
	Nickel	mg/L	0.017	0.006	0.002	0.071	0.13
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.0005	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.001	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.001	0.002	<0.002	
Zinc	mg/L	0.24	0.02	0.008	0.074	0.029	



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### BH9B - EPL Monitoring Point 8

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.006	0.02	0.03	0.05	0.03	0.02	0.05	0.03	0.01	0.02
	Bicarbonate Alkalinity (as CaCO3)	mg/L	160	500	200	250	260	290	399	260	154	137
	Calcium	mg/L	29	91	53	48	64	54	83	64	21	9
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	4000	7200	5300	4300	5600	4200	6410	5600	2590	1880
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	370	980	590	560	700	480	694	700	270	182
	Nitrate & Nitrite (as N)	mg/L	5.8	0.21	0.62	0.37	0.06	0.05	0.01	0.06	0.05	0.09
	Nitrate (as N)	mg/L	5.8	0.21	0.6	0.37	0.06	0.04	0.01	0.06	0.05	0.09
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.14	0.05	0.06	0.01	0.1	0.16	9.01	0.1	0.05	0.09
	Potassium	mg/L	6.3	15	8.9	12.5	11	8.5	11	11	6	4
	Sodium	mg/L	1900	3400	2300	2500	2800	2100	2780	2800	1410	1040
	Sulphate (as SO4)	mg/L	670	1500	850	650	1100	650	997	1100	424	334
	Total Alkalinity (as CaCO3)	mg/L	160	500	200	250	260	290	399	260	154	137
	Total Dissolved Solids	mg/L	6900	6200	9000	7300	8700	6300	15000	8700	5620	3940
	Total Organic Carbon	mg/L	27	21	55	5	5	8.2	1	5	12	14
	pH	pH	5.8	6.1	5.9	6.2	6.2	6.2	5.6	6.2	5.9	5.8
	Redox	mV	-238.8	91.3	32.5	31.5	44.4	87.6	6.9	44.4	124.3	100.7
Standing Water Level	mAHD	48.9	48.3	48.8	49.5	47.1	50.0	46.1	47.1	52.4	50.9	
Temperature	°C	20.6	20.2	19.1	20.5	20.1	20.1	19.4	20.1	21.5	18.6	



BH9B - EPL Monitoring Point 8												
Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
Quarterly	Ammonia (as N)	mg/L	0.03	0.1	0.04	0.01	0.02	0.03	0.03	<0.01	0.04	<0.01
	Bicarbonate Alkalinity (as CaCO3)	mg/L	184	206	184	34	178	200	160	76	96	200
	Calcium	mg/L	22	38	35	13	47	47	38	18	22	43
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20
	Chloride	mg/L	3120	3910	3990	2860	5160	4000	4300	2400	2800	3800
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	268	387	432	269	552	500	410	250	280	440
	Nitrate & Nitrite (as N)	mg/L	0.01	0.01	0.09	0.33	0.01	0.04	0.13	0.22	<0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.01	0.09	0.33	0.01	0.04	0.13	0.22	0.03	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.12	0.16	0.02	0.03	0.31	0.07	0.07	0.17	0.04
	Potassium	mg/L	6	7	7	5	8	8.9	8.9	5.3	5.7	8.6
	Sodium	mg/L	1440	1920	2020	1360	2280	2100	1900	1300	1400	1900
	Sulphate (as SO4)	mg/L	414	604	541	394	615	630	630	290	350	450
	Total Alkalinity (as CaCO3)	mg/L	184	206	184	34	178	200	160	76	96	200
	Total Dissolved Solids	mg/L	5570	8080	8030	5380	9750	7900	7900	5500	6000	9000
	Total Organic Carbon	mg/L	6	5	5	4	3	5	<0.05	5.1	11	88
	pH	pH	6.6	6.1	6.8	5.5	6.06	6.01	5.37	5.88	5.11	5.33
Redox	mV	25.1	77.9	-40.2	51.7	13.7	83.4	-13.4	103.8	137.4	161	
Standing Water Level	mAHD	48.9	47.6	48.4	50.1	47.35	49.04	49.43	54.9	50.24	47.86	
Temperature	°C	19.1	19.8	21.6	19.6	19.0	20.1	19.8	20.1	18.7	20.8	



BH9B - EPL Monitoring Point 8							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	83	0.01	0.01	<0.05
	Arsenic	mg/L	0.001	0.049	0.001	0.001	0.003
	Barium	mg/L	0.04	0.88	0.057	0.038	0.04
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.0005	0.0005	<0.0001
	Cadmium	mg/L	0.0007	0.0014	0.0001	0.0002	0.0003
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	0.005
	Chromium (total)	mg/L	0.001	0.13	0.001	0.001	0.005
	Cobalt	mg/L	0.007	0.167	0.029	0.009	0.01
	Copper	mg/L	0.074	0.418	0.005	0.001	0.082
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.7	0.3	0.5	0.6	<2
	Lead	mg/L	0.003	0.244	0.001	0.001	0.008
	Manganese	mg/L	1.3	11.4	2.52	2.8	1.6
	Mercury	mg/L	0.0001	0.0005	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.038	0.256	0.027	0.049	0.1
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.0002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.0005	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.1	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	<0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.24	1.22	0.036	0.033	0.21	



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### BH10A - EPL Monitoring Point 9

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.3	0.25	0.21	0.24	0.49	0.03	0.12	0.49	0.25	0.35
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1100	1200	1000	1100	1000	1200	1010	1000	972	804
	Calcium	mg/L	310	300	390	340	450	430	304	450	323	285
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	11000	9600	10000	9400	8900	9400	8760	8900	9130	8490
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	1100	1000	1300	1200	1400	1300	928	1400	1080	980
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.01	0.01
	Nitrate (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.03	0.01	0.01
	Phosphate total (as P)	mg/L	0.05	0.05	0.02	0.01	3.1	0.05	0.06	3.1	0.05	0.09
	Potassium	mg/L	29	34	34	33	43	36	31	43	33	28
	Sodium	mg/L	4700	4100	4900	5000	5500	4900	3890	5500	4280	4030
	Sulphate (as SO4)	mg/L	1500	1200	1200	970	1200	1100	1180	1200	1110	1090
	Total Alkalinity (as CaCO3)	mg/L	1100	1200	1000	1100	1000	1200	1010	1000	972	804
	Total Dissolved Solids	mg/L	19000	6600	14000	15000	20000	14000	18200	20000	19400	16200
	Total Organic Carbon	mg/L	5	11	89	5	5	12	3	5	4	8
	pH	pH	6.2	6.5	6.48	6.6	6.4	6.4	6.3	6.4	6.6	6.5
Redox	mV	-391.0	-85.2	-47.7	-59.0	53.9	20.0	74.1	53.9	90.3	12.1	
Standing Water Level	mAHD	43.7	44.2	44.153	44.0	44.0	44.3	43.9	44.0	44.8	45.2	
Temperature	°C	19.2	19.8	19	19.9	19.7	19.2	19.1	19.7	19.6	18.6	





### BH10A - EPL Monitoring Point 9

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.26	0.29	0.34	0.26	0.41	0.87	0.67	0.49	1.3	0.59
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1000	901	1010	1060	1030	1100	1100	1000	1000	1100
	Calcium	mg/L	325	286	292	335	319	320	320	300	280	330
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<10	<20
	Chloride	mg/L	9280	8040	8740	8180	8330	9300	8600	8000	7800	8200
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	1040	913	1070	967	1060	1100	1100	940	980	1100
	Nitrate & Nitrite (as N)	mg/L	0.01	0.04	0.01	0.01	0.01	0.77	<0.02	0.06	<0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.04	0.01	0.01	0.01	0.77	<0.02	0.05	<0.02	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.03	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.05	0.05	0.82	0.18	0.04	0.14	0.37	<0.01	0.30
	Potassium	mg/L	36	29	32	30	32	35	46	31	32	36
	Sodium	mg/L	4220	3900	4450	3730	4250	4300	4200	3700	3700	3900
	Sulphate (as SO4)	mg/L	1200	1110	983	1150	1240	1200	1400	890	1100	930
	Total Alkalinity (as CaCO3)	mg/L	1000	901	1010	1060	1030	1100	1100	1000	1000	1100
	Total Dissolved Solids	mg/L	18100	17500	19800	18300	17400	16000	19000	19000	13000	17000
	Total Organic Carbon	mg/L	12	5	2	1	2	5	<5	<5	<5	18
	pH	pH	6.6	7.4	8.4	6.4	6.48	6.48	6.5	6.54	6.43	6.46
	Redox	mV	11.9	7.2	-207.1	-77.7	-127.7	45.1	-75.5	-80.3	29.5	-29.1
Standing Water Level	mAHD	45.0	45.0	43.9	41.3	40.55	40.94	40.59	40.87	41.13	42.89	
Temperature	°C	19.3	20.8	19.4	18.5	18.6	19.5	20.5	19.7	6.43	20.6	



### BH10A - EPL Monitoring Point 9

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
<b>Yearly</b>	Aluminium	mg/L	0.05	0.88	0.01	0.01	<0.05
	Arsenic	mg/L	0.002	0.024	0.001	0.001	0.001
	Barium	mg/L	0.04	0.042	0.044	0.034	0.04
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.0005	0.005	<0.0001
	Cadmium	mg/L	0.0008	0.0001	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.001
	Chromium (total)	mg/L	0.001	0.002	0.001	0.001	<0.001
	Cobalt	mg/L	0.003	0.004	0.005	0.004	0.003
	Copper	mg/L	0.11	0.008	0.004	0.001	<0.001
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	1	0.4	0.4	0.4	<1
	Lead	mg/L	0.006	0.004	0.001	0.001	<0.001
	Manganese	mg/L	0.82	0.821	0.845	0.774	0.77
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.016		0.006	0.023	0.017
	Organochlorine pesticides	mg/L	0.01	0.01	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.002	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.001	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.002	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.01	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.003	
Zinc	mg/L	0.15	0.033	0.03	0.018	0.046	



SKIP  
BINS



COMMERCIAL &  
LIQUID WASTE



RECYCLING  
CENTRES



CONTAMINATED  
WASTE & SOILS



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PRODUCT



BH10B - EPL Monitoring Point 10												
Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.1	0.1	0.05	0.01	0.01	0.01	0.1	0.01	0.17	0.1
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1200	1100	840	1200	900	1200	958	900	1000	570
	Calcium	mg/L	210	200	260	270	200	340	255	200	236	118
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	12000	11000	12000	12000	11000	11000	10900	11000	11000	9630
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	1400	1600	2000	2000	1800	2000	1590	1800	1670	1530
	Nitrate & Nitrite (as N)	mg/L	0.87	1.8	1.1	0.13	0.77	0.18	0.01	0.77	0.19	2.7
	Nitrate (as N)	mg/L	0.78	1.6	0.98	0.13	0.75	0.18	0.01	0.75	0.01	2.31
	Nitrite (as N)	mg/L	0.1	0.22	0.13	0.02	0.03	0.02	0.01	0.03	0.18	0.39
	Phosphate total (as P)	mg/L	0.05	0.05	0.01	0.01	0.02	0.02	0.05	0.02	0.05	0.11
	Potassium	mg/L	49	60	65	57	58	57	47	58	51	50
	Sodium	mg/L	5500	5200	4800	6500	6300	6000	4850	6300	5180	4780
	Sulphate (as SO4)	mg/L	2700	1600	2000	2300	2900	2700	2670	2900	2580	2730
	Total Alkalinity (as CaCO3)	mg/L	1200	1100	840	1200	900	1200	958	900	1000	570
	Total Dissolved Solids	mg/L	22000	9100	20000	20000	22000	20000	25400	22000	26000	21000
	Total Organic Carbon	mg/L	7.5	26	71	36	5	5	2	5	2	6
	pH	pH	6.37	6.34	7.26	6.5	6.5	6.4	6.3	6.5	6.4	6.4
	Redox	mV	94.4	87.8	-138.6	47.4	59.2	35.4	105.5	59.2	104.6	142.7
Standing Water Level	mAHD	43.728	44.348	43.878	44.0	44.0	45.3	44.9	44.0	44.1	44.9	
Temperature	°C	20.2	21.3	18.6	19.1	20.1	19.5	18.4	20.1	19.8	17.3	



### BH10B - EPL Monitoring Point 10

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.1	<b>Well Damaged - Unable to obtain a sample.</b>	0.13	0.11	0.10	0.01	0.09	0.01	-	0.06
	Bicarbonate Alkalinity (as CaCO3)	mg/L	387		534	716	979	1100	1100	930	-	1200
	Calcium	mg/L	142		144	247	271	260	260	230	-	290
	Carbonate Alkalinity (as CaCO3)	mg/L	1		1	1	1	<20	<20	<20	-	<20
	Chloride	mg/L	9280		8310	9430	990	11000	11000	10000	-	12000
	Hydroxide Alkalinity (as CaCO3)	mg/L	1		1	1	1	1	<20	<20	-	<20
	Magnesium	mg/L	1090		1020	1310	1520	1500	1500	1400	-	1600
	Nitrate & Nitrite (as N)	mg/L	0.41		0.01	0.04	0.01	0.16	0.68	0.42	-	1.3
	Nitrate (as N)	mg/L	0.4		0.01	0.01	0.01	0.16	0.68	0.41	-	1.3
	Nitrite (as N)	mg/L	0.01		0.01	0.04	0.01	0.01	<0.02	<0.02	-	<0.02
	Phosphate total (as P)	mg/L	0.1		0.05	0.05	0.33	0.03	0.02	0.02	-	0.18
	Potassium	mg/L	55		42	57	52	49	50	49	-	49
	Sodium	mg/L	4690		4390	5150	5280	5300	5100	4700	-	4900
	Sulphate (as SO4)	mg/L	2910		2330	2610	2700	2700	2700	2300	-	2500
	Total Alkalinity (as CaCO3)	mg/L	387		534	716	979	1100	1100	930	-	1200
	Total Dissolved Solids	mg/L	19600		18600	23200	21000	21000	23000	23000	-	24000
	Total Organic Carbon	mg/L	24		8	6	4	5	<5	<5	-	180
	pH	pH	6.6		6.3	6.2	6.58	6.51	6.23	5.86	6.08	6.23
Redox	mV	117.5	71.8	-4.8	94.9	84	29.7	128.3	86.3	75		
Standing Water Level	mAHD	45.4	44.0	43.1	42.97	43.39	43.48	44.15	42.27	42.89		
Temperature	°C	18.4	19.2	19.0	18.4	19	20.4	19.7	19.1	20.2		



### BH10B - EPL Monitoring Point 10

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	0.91	0.01	0.38	0.44
	Arsenic	mg/L	0.001	0.015	0.001	0.01	-
	Barium	mg/L	0.05	0.048	0.031	0.03	<0.1
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.005	0.0005	0.005	-
	Cadmium	mg/L	0.0009	0.0002	0.0023	0.001	-
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.01	<0.005
	Chromium (total)	mg/L	0.001	0.003	0.001	0.01	<0.005
	Cobalt	mg/L	0.19	0.02	0.04	0.013	0.03
	Copper	mg/L	0.098	0.011	0.004	0.01	-
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.9	0.6	0.6	0.5	-
	Lead	mg/L	0.002	0.003	0.004	0.01	-
	Manganese	mg/L	2.4	1.82	8.57	1.94	1.8
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	-
	Nickel	mg/L	0.044	0.082	0.111	0.041	-
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	0.44
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	-
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.1
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Phenols	mg/L	0.1	0.002	0.001	0.001	-
	Selenium	mg/L	0.002	0.01	0.01	0.1	-
	Toluene	mg/L	0.001	0.002	0.016	0.002	<0.005
	Total Petroleum hydrocarbons	mg/L	0.01	0.05	0.1	0.1	<0.005
Xylene	mg/L	0.003	0.002	0.002	0.002	0.03	
Zinc	mg/L	0.1	0.046	0.026	0.064	-	



SKIP  
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COMMERCIAL &  
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RECYCLING  
CENTRES



CONTAMINATED  
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QUALITY PRODUCTS

### BH11A - EPL Monitoring Point 11

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	2.2	3	1.5	2.6	2.7	0.53	2.22	2.7	1.72	1.95
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1100	1200	850	840	840	880	928	840	805	821
	Calcium	mg/L	420	370	400	420	530	530	436	530	463	395
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	13000	10000	13000	22000	11000	11000	10800	11000	11400	10500
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	1300	740	1300	1500	1600	1500	1310	1600	1430	1460
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.54	0.17
	Nitrate (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.08	0.16
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.62	0.01
	Phosphate total (as P)	mg/L	0.02	0.05	0.02	0.02	0.02	0.02	0.05	0.02	0.05	0.24
	Potassium	mg/L	36	42	23	34	35	36	33	35	33	27
	Sodium	mg/L	4900	4100	4800	5800	6200	5400	4610	6200	5300	4960
	Sulphate (as SO4)	mg/L	1700	330	1500	1500	1900	1700	1710	1900	1710	1670
	Total Alkalinity (as CaCO3)	mg/L	1100	1200	850	840	840	880	928	840	805	821
	Total Dissolved Solids	mg/L	25000	13000	20000	17000	23000	16000	23400	23000	24800	21200
	Total Organic Carbon	mg/L	11	40	110	5	5	28	3	5	3	8
	pH	pH	6.4	6.5	5.87	6.5	6.6	6.3	6.3	6.6	6.6	6.2
Redox	mV	-118	-165.8	-78.2	-76.4	-87.4	-19.3	-35.3	-87.4	-19.9	7.7	
Standing Water Level	mAHD	32.268	30.6	30.778	34.2	32.3	36.4	36.3	32.3	33.7	32.0	
Temperature	°C	20	19.1	18.9	19.2	19.6	19.3	18.2	19.6	20.9	18.7	



BH11A - EPL Monitoring Point 11												
Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
Quarterly	Ammonia (as N)	mg/L	0.4	0.27	0.63	1.53	1.87	1.6	1.8	1.9	1.1	1.8
	Bicarbonate Alkalinity (as CaCO3)	mg/L	66	109	238	504	672	820	900	710	640	740
	Calcium	mg/L	92	96	156	235	375	390	410	370	310	400
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<10	<20
	Chloride	mg/L	10800	9280	11100	11600	10800	11000	13000	11000	12000	11000
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	1140	934	1470	1380	1420	1500	1400	1300	1400	1400
	Nitrate & Nitrite (as N)	mg/L	0.01	0.07	0.01	0.05	0.23	0.27	<0.02	<0.05	0.1	0.06
	Nitrate (as N)	mg/L	0.01	0.05	0.01	0.05	0.23	0.27	<0.02	0.03	0.09	0.06
	Nitrite (as N)	mg/L	0.02	0.02	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.05	0.05	0.03	0.04	0.01	<0.01	<0.01	0.02	0.09
	Potassium	mg/L	5	5	8	20	25	29	29	28	25	30
	Sodium	mg/L	4990	4430	5620	5330	5450	5500	5100	5000	5900	5200
	Sulphate (as SO4)	mg/L	1420	1320	1760	1870	1920	1800	2100	1500	1600	1500
	Total Alkalinity (as CaCO3)	mg/L	66	109	238	504	672	820	900	710	640	740
	Total Dissolved Solids	mg/L	17600	19500	25100	23000	20000	22000	24000	24000	12000	19000
	Total Organic Carbon	mg/L	17	9	6	5	3	5	<5	<5	5.1	15
	pH	pH	5.4	5.6	6.8	7.4	6.5	5.42	5.48	5.73	6.27	6.29
	Redox	mV	131.5	104.0	89.0	-109.9	56.5	158.4	94.7	167.8	98.4	142.6
Standing Water Level	mAHD	33.4	35.4	33.2	33	32.48	35.11	34.69	34.57	34.95	35.13	
Temperature	°C	19.1	23.2	19.3	18.5	13.4	19.9	21.5	18.3	19.4	20.6	



### BH11A - EPL Monitoring Point 11

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	0.28	0.01	0.03	<0.05
	Arsenic	mg/L	0.002	0.026	0.001	0.001	<0.001
	Barium	mg/L	9	0.064	0.043	0.05	0.06
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.005	<0.0001
	Cadmium	mg/L	0.0003	0.0001	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.001
	Chromium (total)	mg/L	0.001	0.001	0.001	0.001	<0.001
	Cobalt	mg/L	0.03	0.01	0.315	0.07	0.085
	Copper	mg/L	0.03	0.006	0.017	0.008	0.011
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	1	0.8	0.1	0.8	<1
	Lead	mg/L	0.001	0.001	0.001	0.001	<0.001
	Manganese	mg/L	1.2	0.502	2.5	1.27	1.5
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.033	0.072	0.161	0.124	0.15
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.003	
Zinc	mg/L	0.11	0.036	0.246	0.074	0.046	



SKIP BINS



COMMERCIAL & LIQUID WASTE



RECYCLING CENTRES



CONTAMINATED WASTE & SOILS



ECO PRODUCT





BH11B - EPL Monitoring Point 12												
Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.19	0.22	0.13	0.19	0.17	0.09	0.04	0.17	0.2	0.15
	Bicarbonate Alkalinity (as CaCO3)	mg/L	87	80	120	60	64	73	62	64	67	51
	Calcium	mg/L	30	40	62	29	41	56	32	41	37	24
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	9700	13000	16000	13000	13000	13000	11000	13000	12300	10300
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	890	1500	2100	1600	2000	1800	1300	2000	1550	1320
	Nitrate & Nitrite (as N)	mg/L	3.6	0.05	0.05	0.05	0.07	0.07	0.01	0.07	0.01	0.01
	Nitrate (as N)	mg/L	2.8	0.02	0.02	0.03	0.06	0.07	0.01	0.06	0.01	0.01
	Nitrite (as N)	mg/L	0.7	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.33	0.05	0.03	0.02	0.03	0.05	0.34	0.03	0.1	0.12
	Potassium	mg/L	5	9.4	5	3.3	3.3	5	3	3.3	2	2
	Sodium	mg/L	3900	5600	5100	6400	8100	6500	4930	8100	6160	4820
	Sulphate (as SO4)	mg/L	1200	1600	1500	1400	1900	1800	1560	1900	1690	1480
	Total Alkalinity (as CaCO3)	mg/L	87	80	120	60	64	73	62	64	67	51
	Total Dissolved Solids	mg/L	16000	8600	17000	19000	24000	12000	23300	24000	26000	19000
	Total Organic Carbon	mg/L	810	23	27	5	5	12	5	5	5	5
	pH	pH	5.51	5.38	5.66	5.1	5.3	5.1	5.0	5.3	5.6	5.2
	Redox	mV	-615.8	101.7	52.8	100.0	97.7	141.0	146.7	97.7	115.3	124.4
	Standing Water Level	mAHD	42.725	42.865	42.825	43.0	42.9	43.4	43.2	42.9	43.6	43.6
Temperature	°C	20.7	19.6	18.4	18.8	20.1	19.5	18.3	20.1	19.7	18.0	



BH11B - EPL Monitoring Point 12												
Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.22	0.16	0.19	0.21	0.15	0.15	0.22	0.11	0.22	0.57
	Bicarbonate Alkalinity (as CaCO3)	mg/L	48	112	65	71	58	77	78	110	110	150
	Calcium	mg/L	21	46	31	28	27	30	25	10	10	9.1
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<10	<20
	Chloride	mg/L	10500	11800	10400	5360	7340	8500	5,200	550	1100	1400
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	6.6	1470	1340	524	816	930	500	42	110	100
	Nitrate & Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.05	2.2	<0.05
	Nitrate (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	2.2	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.18	0.07	1.81	0.12	0.01	0.34	0.32	<0.01	2.8
	Potassium	mg/L	2	3	2	6	3	4.3	10	7.2	<5	3.1
	Sodium	mg/L	4870	5970	5180	2550	3720	4000	2.300	330	740	740
	Sulphate (as SO4)	mg/L	1160	1660	1540	639	1050	1200	760	80	160	180
	Total Alkalinity (as CaCO3)	mg/L	48	112	65	71	58	77	78	110	110	150
	Total Dissolved Solids	mg/L	18400	26000	22100	10200	13300	14000	11000	1600	2500	2500
	Total Organic Carbon	mg/L	13	6	6	7	5	5	<5	<5	<5	20
	pH	pH	5.5	6.8	5.2	5.7	5.4	5.51	5.62	5.16	4.98	5.88
	Redox	mV	96.7	-50.1	-39.2	-143.2	129.90	51.4	-71.3	-92.7	4454	-98.9
	Standing Water Level	mAHD	43.6	43.9	43.2	42.1	42.2	42.37	42.26	44.13	42.22	41.97
Temperature	°C	17.8	20.1	18.8	18.4	16.5	19.4	20.7	18.5	18.1	19.2	



### BH11B - EPL Monitoring Point 12

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	14.4	0.7	0.03	0.07
	Arsenic	mg/L	0.003	0.346	0.004	0.003	0.001
	Barium	mg/L	0.04	0.08	0.063	0.058	0.08
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.005	<0.0001
	Cadmium	mg/L	0.001	0.0004	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	0.001
	Chromium (total)	mg/L	0.001	0.018	0.001	0.001	0.001
	Cobalt	mg/L	0.46	0.465	0.351	0.29	0.037
	Copper	mg/L	0.096	0.035	0.005	0.002	<0.001
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.5	0.3	0.6	0.2	<1
	Lead	mg/L	0.005	0.026	0.005	0.001	<0.001
	Manganese	mg/L	9.5	7.8	1170	5.34	1.2
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.17	0.201	0.153	0.112	0.052
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.00002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.017	0.04	0.02	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.01	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.003	
Zinc	mg/L	0.26	0.281	0.236	0.202	0.077	



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### BH12A - EPL Monitoring Point 13

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.96	0.99	0.79	1	1.2	0.25	0.87	1.2	1.04	1.07
	Bicarbonate Alkalinity (as CaCO3)	mg/L	930	950	810	700	690	870	635	690	701	549
	Calcium	mg/L	320	330	360	370	480	420	343	480	354	299
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	22000	14000	17000	19000	14000	14000	12400	14000	12700	12200
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	1400	1500	1500	1700	1900	1700	1460	1900	1590	1540
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.01	0.08
	Nitrate (as N)	mg/L	0.02	0.04	0.05	0.02	0.02	0.02	0.01	0.02	0.01	0.08
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	2.4	0.21	0.04	0.29	1.7	0.18	0.08	1.7	0.56	0.13
	Potassium	mg/L	16	17	14	18	26	17	16	26	15	14
	Sodium	mg/L	5700	6100	6600	7100	7900	6400	5560	7900	6420	5620
	Sulphate (as SO4)	mg/L	1300	1300	1200	1000	1300	1100	1180	1300	1130	1090
	Total Alkalinity (as CaCO3)	mg/L	930	950	810	700	690	870	635	690	701	549
	Total Dissolved Solids	mg/L	24000	8800	2500	22000	29000	22000	27000	29000	27500	23700
	Total Organic Carbon	mg/L	140	29	80	5	5	11	1	5	2	8
	pH	pH	6.37	6.45	6.91	6.5	6.5	6.5	6.4	6.5	6.6	6.5
Redox	mV	-6.5	-9.4	-161.6	-13.7	-36.2	255.0	-2.3	-36.2	20.5	44.8	
Standing Water Level	mAHD	39.297	39.777	39.707	39.8	39.7	40.2	40.3	39.7	39.7	40.2	
Temperature	°C	19.5	18.5	15.8	19.2	19.3	18.8	18.4	19.3	18.8	17.4	



### BH12A - EPL Monitoring Point 13

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
Quarterly	Ammonia (as N)	mg/L	1.12	0.76	0.99	0.95	0.24	1.7	1.00	0.95	1.1	1
	Bicarbonate Alkalinity (as CaCO3)	mg/L	698	689	708	678	743	780	750	670	640	730
	Calcium	mg/L	345	350	380	376	470	350	340	330	370	360
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20
	Chloride	mg/L	13200	12500	12700	13100	13300	15000	26,000	13000	14000	13000
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	1450	1500	1610	1540	1800	1500	1,500	1400	1700	1500
	Nitrate & Nitrite (as N)	mg/L	0.11	0.13	0.01	0.03	0.01	0.03	0.04	<0.05	<0.05	<0.05
	Nitrate (as N)	mg/L	0.11	0.13	0.01	0.02	0.01	0.03	0.04	<0.02	0.03	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.14	0.11	0.43	0.06	10.90	0.01	0.22	0.09	0.35	0.29
	Potassium	mg/L	15	15	15	18	21	18	22	15	20	17
	Sodium	mg/L	5860	6220	6470	6390	7210	6200	5900	5400	6800	5700
	Sulphate (as SO4)	mg/L	831	1110	1230	1220	875	1500	2200	910	1100	980
	Total Alkalinity (as CaCO3)	mg/L	698	689	708	678	743	780	750	670	640	730
	Total Dissolved Solids	mg/L	25300	27600	27600	34200	25000	26000	27000	26000	25000	25000
	Total Organic Carbon	mg/L	10	2	1	2	1	5	<5	<5	<5	20
	pH	pH	6.6	6.6	7.5	6.4	5.59	6.18	6.42	6.31	5.92	6.13
	Redox	mV	12.4	19.1	-121.4	25.5	104.5	48.4	1.6	34.6	51.9	121.5
Standing Water Level	mAHD	40.2	40.2	40.2	39.5	39.24	39.31	39.25	39.34	39.35	39.20	
Temperature	°C	18.1	18.3	19.0	17.9	19	19.1	21.4	22.2	18.5	19.8	



BH12A - EPL Monitoring Point 13							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	2.68	0.01	5.16	<0.25
	Arsenic	mg/L	0.001	0.044	0.001	0.012	0.019
	Barium	mg/L	0.04	0.101	0.048	0.124	<0.1
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.0005	0.0005	<0.0001
	Cadmium	mg/L	0.0003	0.0001	0.0001	0.001	<0.001
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.027	0.021
	Chromium (total)	mg/L	0.001	0.004	0.001	0.027	0.021
	Cobalt	mg/L	0.015	0.018	0.017	0.031	0.011
	Copper	mg/L	0.043	0.023	0.005	0.3	0.13
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.05	0.3	0.3	0.2	<5
	Lead	mg/L	0.001	0.009	0.001	0.089	0.039
	Manganese	mg/L	1.4	1.27	1.41	3.82	1.4
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0005
	Nickel	mg/L	0.027	0.025	0.024	0.131	0.056
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.00002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.01	0.01	0.1	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	<0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.067	0.058	0.052	0.205	0.21	



### BH12B - EPL Monitoring Point 14

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22	
Quarterly	Ammonia (as N)	mg/L	0.05	0.04	0.01	0.02	0.03	0.05	0.01	0.03	0.07	<0.01	
	Bicarbonate Alkalinity (as CaCO3)	mg/L	380	630	540	630	770	890	739	770	840	340	
	Calcium	mg/L	120	150	140	210	190	160	179	190	262	260	
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	<20	
	Chloride	mg/L	470	300	100	75	89	640	156	89	101	130	
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	20	1	20	1	<20
	Magnesium	mg/L	45	42	38	47	48	96	50	48	62	49	
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.01	<0.05
	Nitrate (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	<0.02
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	<0.02
	Phosphate total (as P)	mg/L	0.08	0.05	0.02	0.03	0.02	0.12	0.08	0.02	0.05	0.18	
	Potassium	mg/L	5	2.6	5	12.5	2.5	5	2	2.5	2	5.3	
	Sodium	mg/L	300	210	97	150	150	420	146	150	115	130	
	Sulphate (as SO4)	mg/L	340	150	130	100	160	130	162	160	141	690	
	Total Alkalinity (as CaCO3)	mg/L	380	630	540	630	770	890	739	770	840	340	
	Total Dissolved Solids	mg/L	1700	7900	790	960	1100	1700	1220	1100	1170	1600	
	Total Organic Carbon	mg/L	370	32	47	5	10	18	12	10	18	21	
	pH	pH	6.64	6.6	6.91	6.9	6.7	6.4	5.9	6.7	6.7	6.9	
Redox	mV	-518	-125.8	-161.6	-97.8	-3.3	-81.3	7.8	-3.3	-42.3	-106.8		
Standing Water Level	mAHD	45.0	47.9	48.4	48.6	46.8	48.5	49.1	46.8	48.6	48.5		
Temperature	°C	19.4	16.6	15.8	18.1	19.1	18.1	18.8	19.1	18.6	16.1		



### BH12B - EPL Monitoring Point 14

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.11	0.13	0.04	0.03	0.02	0.04	0.04	<0.01	<0.01	<0.01
	Bicarbonate Alkalinity (as CaCO3)	mg/L	715	762	746	368	400	390	390	360	340	520
	Calcium	mg/L	304	249	125	113	144	170	160	230	260	310
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20
	Chloride	mg/L	144	103	109	112	466	85	500	83	130	78
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	500	<20	<20	<20
	Magnesium	mg/L	73	64	57	52	90	74	84	55	49	87
	Nitrate & Nitrite (as N)	mg/L	0.01	0.1	0.01	0.04	0.06	0.68	0.04	<0.05	<0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.1	0.01	0.04	0.06	0.68	0.04	0.04	<0.02	0.03
	Nitrite (as N)	mg/L	0.01	0.1	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.01	0.09	0.03	0.02	0.04	0.09	0.02	0.08	0.18	0.05
	Potassium	mg/L	2	2	1	1	2	2.1	2.5	9.3	5.3	3
	Sodium	mg/L	148	140	303	294	470	370	470	110	130	240
	Sulphate (as SO4)	mg/L	433	348	315	549	650	270	790	550	690	410
	Total Alkalinity (as CaCO3)	mg/L	715	762	746	368	400	390	390	360	340	520
	Total Dissolved Solids	mg/L	1550	1460	1440	1420	2100	1800	2400	1300	1600	1200
	Total Organic Carbon	mg/L	44	19	14	10	13	5	<5	<5	21	110
	pH	pH	7.0	6.8	9.7	6.4	6.4	5.97	5.71	6.92	5.97	5.99
	Redox	mV	-78.8	-115.2	-155.3	-8.9	1.8	107.2	53.3	-67.4	-30.5	55.2
	Standing Water Level	mAHD	48.2	48.5	45.9	45.5	45.8	46.78	46.73	49.36	49.52	48.80
Temperature	°C	14.1	16.9	20.1	17.2	17.8	17.5	19.3	18	14.7	18.5	





### BH12B - EPL Monitoring Point 14

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
<b>Yearly</b>	Aluminium	mg/L	0.05	2.89	0.01	0.01	<0.05
	Arsenic	mg/L	0.002	0.004	0.001	0.001	0.004
	Barium	mg/L	0.07	0.101	0.126	0.052	0.07
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.0005	<0.0001
	Cadmium	mg/L	0.0002	0.0001	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	0.009
	Chromium (total)	mg/L	0.001	0.004	0.001	0.001	0.009
	Cobalt	mg/L	0.004	0.016	0.009	0.008	0.008
	Copper	mg/L	0.095	0.015	0.001	0.002	0.025
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.6	0.2	0.3	0.2	<0.5
	Lead	mg/L	0.001	0.008	0.001	0.001	0.007
	Manganese	mg/L	1.2	2.47	5.25	0.886	2.5
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.012	0.019	0.004	0.006	0.15
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.0002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.001	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.01	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.072	0.054	0.005	0.011	0.084	



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### BH13A - EPL Monitoring Point 15

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.21	0.46	0.29	0.39	0.55	0.32	0.36	0.55	0.43	0.42
	Bicarbonate Alkalinity (as CaCO3)	mg/L	690	630	500	600	460	560	504	460	437	451
	Calcium	mg/L	270	270	250	270	310	390	221	310	235	184
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	15000	14000	14000	27000	11000	12000	10800	11000	11000	10300
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	1100	1100	970	1200	1200	1400	950	1200	1080	1160
	Nitrate & Nitrite (as N)	mg/L	1	0.05	0.18	0.03	0.16	0.05	0.03	0.16	0.01	0.01
	Nitrate (as N)	mg/L	0.72	0.03	0.13	0.09	0.1	0.02	0.03	0.1	0.01	0.01
	Nitrite (as N)	mg/L	0.32	0.03	0.06	0.21	0.06	0.02	0.01	0.06	0.01	0.01
	Phosphate total (as P)	mg/L	2	1.8	0.42	0.46	0.02	0.47	2.34	0.02	0.18	0.13
	Potassium	mg/L	16	16	10	16	17	23	10	17	10	8
	Sodium	mg/L	5300	5400	4600	6000	6100	6500	4830	6100	5220	5040
	Sulphate (as SO4)	mg/L	370	400	300	300	380	370	361	380	361	368
	Total Alkalinity (as CaCO3)	mg/L	690	630	500	600	460	560	504	460	437	451
	Total Dissolved Solids	mg/L	24000	17000	17000	17000	22000	15000	20400	22000	24100	19600
	Total Organic Carbon	mg/L	5	22	14	5	5	5.3	3	5	2	4
	pH	pH	5.98	6.3	6.55	6.4	6.3	6.3	5.6	6.3	6.4	6.4
	Redox	mV	54.4	13.9	-50.5	4.5	48.8	-17.1	121.8	48.8	-31.4	26.7
Standing Water Level	mAHD	34.744	35.144	35.582	35.4	35.3	35.4	35.1	35.3	35.2	35.4	
Temperature	°C	19.3	18.3	18.6	19.1	19.2	19.3	18.5	19.2	18.8	17.7	



### BH13A - EPL Monitoring Point 15

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24	
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.36	0.31	0.64	0.59	0.56	0.46	0.42	0.44	1.4	0.47	
	Bicarbonate Alkalinity (as CaCO3)	mg/L	426	433	481	458	486	470	470	430	410	440	
	Calcium	mg/L	220	232	237	189	255	230	240	230	200	250	
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<10	<20	
	Chloride	mg/L	11300	10800	11400	11500	11000	13000	12000	11000	9600	11000	
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20	
	Magnesium	mg/L	1020	1080	1210	1110	1060	1100	1100	1100	1000	1100	1100
	Nitrate & Nitrite (as N)	mg/L	0.01	0.02	0.01	0.01	0.03	0.01	<0.02	<0.05	<0.05	<0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.02	0.01	0.01	0.03	0.01	<0.02	<0.02	<0.02	<0.02	0.03
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.08	0.26	0.08	1.16	0.69	<0.01	0.08	<0.01	0.07	
	Potassium	mg/L	10	10	11	12	13	10	12	9.7	10	11	
	Sodium	mg/L	5100	5320	5620	5390	5020	5300	5000	4800	5600	5000	
	Sulphate (as SO4)	mg/L	369	383	350	365	349	400	330	240	310	270	
	Total Alkalinity (as CaCO3)	mg/L	426	433	481	458	486	470	470	430	410	440	
	Total Dissolved Solids	mg/L	21200	25800	22900	22900	19200	23000	23000	20000	11000	20000	
	Total Organic Carbon	mg/L	8	2	1	1	1	5	<5	<5	<5	29	
	pH	pH	6.4	6.4	8.5	6.3	5.3	5.92	6.28	6.26	5.87	5.99	
	Redox	mV	22.1	1.9	-16.3	24.6	135.9	72.3	62.9	60.1	92.9	117.4	
Standing Water Level	mAHD	35.4	35.2	35.2	35.4	35.0	34.76	34.71	34.86	34.89	34.79		
Temperature	°C	18.4	18.8	18.7	17.9	17.7	19.4	18.6	18.7	17.3	18.3		



BH13A - EPL Monitoring Point 15							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	27.8	0.01	0.02	<0.05
	Arsenic	mg/L	0.001	0.094	0.001	0.001	0.001
	Barium	mg/L	0.13	0.683	0.104	0.162	0.11
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.001	0.0005	<0.0001
	Cadmium	mg/L	0.0003	0.0005	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.001
	Chromium (total)	mg/L	0.001	0.059	0.001	0.001	<0.001
	Cobalt	mg/L	0.02	0.124	0.033	0.033	0.037
	Copper	mg/L	0.075	0.292	0.005	0.052	0.006
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.6	0.2	0.4	0.3	<1
	Lead	mg/L	0.002	0.167	0.001	0.002	0.002
	Manganese	mg/L	4.5	8.35	5.12	4.97	5.7
	Mercury	mg/L	0.0001	0.0003	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.021	0.142	0.014	0.028	0.079
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.002	0.001	<0.1
	Selenium	mg/L	0.002	0.03	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	0.002
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.1	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.002	0.002	0.008	
Zinc	mg/L	0.11	0.572	7	0.07	0.03	



SKIP BINS



COMMERCIAL & LIQUID WASTE



RECYCLING CENTRES



CONTAMINATED WASTE & SOILS



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### BH13B – EPL Monitoring Point 16

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01
	Bicarbonate Alkalinity (as CaCO <sub>3</sub> )	mg/L	26	44	20	20	20	20	5	20	10	8
	Calcium	mg/L	5	4.6	5	12.5	1.8	11	2	1.8	2	1
	Carbonate Alkalinity (as CaCO <sub>3</sub> )	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	1200	710	490	690	920	810	611	920	249	268
	Hydroxide Alkalinity (as CaCO <sub>3</sub> )	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	47	29	14	23	34	50	21	34	6	6
	Nitrate & Nitrite (as N)	mg/L	1.1	1.4	1.6	1.4	0.66	0.82	1.2	0.66	1.03	0.68
	Nitrate (as N)	mg/L	1.1	1.4	1.6	1.4	0.66	0.82	1.2	0.66	1.03	0.68
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.03	0.05	0.02	0.02	0.02	0.04	0.07	0.02	0.02	0.02
	Potassium	mg/L	5	1.4	5	12.5	0.7	5	1	0.7	1	1
	Sodium	mg/L	660	480	300	470	600	530	365	600	159	164
	Sulphate (as SO <sub>4</sub> )	mg/L	150	130	120	140	150	140	148	150	51	50
	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	26	44	20	20	20	20	5	20	10	8
	Total Dissolved Solids	mg/L	2300	1000	960	1300	1000	1700	1260	1000	561	556
	Total Organic Carbon	mg/L	21	5	5	5	5	5	3	5	4	2
	pH	pH	5.59	5.17	5.18	4.7	4.8	4.7	4.1	4.8	5.7	4.4
Redox	mV	198.7	185.4	29.4	148.2	134.1	281.4	398.6	134.1	190.7	207.3	
Standing Water Level	mAHD	32.977	40.427	39.927	39.6	39.2	40.7	40.6	39.2	40.0	41.3	
Temperature	°C	22.1	15.9	17.5	18.2	19.1	19.3	16.4	19.1	21.7	16.3	



BH13B – EPL Monitoring Point 16												
Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.05	<0.01
	Bicarbonate Alkalinity (as CaCO3)	mg/L	6	10	2	17	6	20	<20	<20	<20	<20
	Calcium	mg/L	1	1	2	22	1	5.1	19	13	1.9	4.5
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<10	<20
	Chloride	mg/L	474	389	646	2920	740	1100	2900	1500	570	480
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	13	9	24	170	31	49	150	100	22	46
	Nitrate & Nitrite (as N)	mg/L	0.58	0.42	0.18	0.17	0.10	0.22	0.13	0.14	0.41	1.2
	Nitrate (as N)	mg/L	0.58	0.42	18	0.17	0.10	0.22	0.13	0.14	0.41	1.2
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.03	0.02	0.08	0.18	0.03	0.29	0.16	0.2	0.04	0.14
	Potassium	mg/L	1	1	1	2	1	1.1	2.5	1.7	<0.5	1
	Sodium	mg/L	274	232	395	1400	468	670	1100	870	360	580
	Sulphate (as SO4)	mg/L	84	55	68	136	108	130	330	99	92	41
	Total Alkalinity (as CaCO3)	mg/L	6	10	2	17	6	20	<20	<20	<20	<20
	Total Dissolved Solids	mg/L	844	766	1430	4800	1680	2200	4900	3400	2000	1700
	Total Organic Carbon	mg/L	3	2	3	2	2	5	<5	9.2	6.3	110
	pH	pH	4.4	5.3	4.3	5.0	4.62	4.34	4.33	4.59	4.24	4.27
	Redox	mV	404.8	120.2	84.9	48.6	363.20	197.7	180	203.8	212.6	247.7
	Standing Water Level	mAHD	38.4	40.4	39.3	36.7	39.25	39.95	39.80	40.02	40.88	40.38
Temperature	°C	15.8	18.8	20.1	17.4	19.0	19	18.2	18.6	16.1	16.6	



BH13B - EPL Monitoring Point 16							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.13	1.56	0.1	0.22	0.12
	Arsenic	mg/L	0.001	0.009	0.001	0.001	<0.001
	Barium	mg/L	0.04	0.051	0.046	0.042	0.05
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.005	<0.0001
	Cadmium	mg/L	0.0002	0.0001	0.0001	0.0001	<0.0002
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.001
	Chromium (total)	mg/L	0.001	0.003	0.001	0.001	<0.001
	Cobalt	mg/L	0.009	0.013	0.007	0.016	0.01
	Copper	mg/L	0.078	0.007	0.007	0.002	0.017
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.5	0.1	0.1	0.2	<1
	Lead	mg/L	0.004	0.004	0.001	0.001	0.003
	Manganese	mg/L	0.25	0.224	0.086	0.141	0.29
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0001
	Nickel	mg/L	0.014	0.02	0.004	0.007	0.075
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.002	0.001	<0.1
	Selenium	mg/L	0.001	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	0.002
Total Petroleum hydrocarbons	mg/L	0.12	0.05	0.1	0.1	<0.1	
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.003	
Zinc	mg/L	0.12	0.077	0.014	0.02	0.15	



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### BH14A - EPL Monitoring Point 17

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.48	0.46	1.4	0.3	0.37	0.6	0.3	0.37	0.48	0.79
	Bicarbonate Alkalinity (as CaCO3)	mg/L	1400	1400	1100	1200	1100	1200	988	1100	573	716
	Calcium	mg/L	240	250	270	250	240	380	236	240	177	157
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	8400	6900	8700	7600	7000	6900	6960	7000	6990	7140
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	790	780	800	940	780	1100	678	780	716	645
	Nitrate & Nitrite (as N)	mg/L	0.05	0.05	0.05	0.08	0.05	0.05	0.03	0.05	0.01	0.01
	Nitrate (as N)	mg/L	0.02	0.04	0.05	0.08	0.02	0.02	0.03	0.02	0.01	0.01
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.05	0.05	0.89	0.02	0.01	0.08	0.05	0.01	0.05	0.28
	Potassium	mg/L	26	30	35	31	26	38	26	26	22	24
	Sodium	mg/L	3700	3300	3500	4400	3600	4800	3260	3600	3840	3330
	Sulphate (as SO4)	mg/L	790	680	680	600	800	680	657	800	711	754
	Total Alkalinity (as CaCO3)	mg/L	1400	1400	1100	1200	1100	1200	988	1100	573	716
	Total Dissolved Solids	mg/L	16000	7300	12000	15000	12000	14000	14100	12000	15300	13700
	Total Organic Carbon	mg/L	30	5	120	5	6	5	3	6	21	12
	pH	pH	6.37	6.42	6.61	6.6	6.6	6.6	5.9	6.6	6.4	6.4
	Redox	mV	25.8	51.8	-180.5	21.8	24.7	-6.1	108.7	24.7	-6.6	-110.0
Standing Water Level	mAHD	40.018	39.608	40.088	40.2	40.1	40.4	40.1	40.1	40.7	41.1	
Temperature	°C	20.6	20.6	18.5	19.9	20.3	19.6	19.3	20.3	20.4	18.9	





### BH14A - EPL Monitoring Point 17

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24	
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.31	0.33	0.36	4.21	0.37	0.91	0.85	0.97	1	0.53	
	Bicarbonate Alkalinity (as CaCO3)	mg/L	809	998	1040	848	1110	1100	1000	820	770	1000	
	Calcium	mg/L	187	208	203	370	226	230	220	200	210	230	
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20	
	Chloride	mg/L	7640	6600	6300	7580	6150	7600	7000	6300	7300	6800	
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20	
	Magnesium	mg/L	758	637	662	652	717	710	650	640	780	750	
	Nitrate & Nitrite (as N)	mg/L	0.01	0.02	0.01	0.01	0.01	0.01	0.01	<0.02	<0.05	<0.05	<0.05
	Nitrate (as N)	mg/L	0.01	0.02	0.01	0.01	0.01	0.01	0.01	<0.02	0.02	<0.02	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.2	0.06	0.02	0.35	0.04	0.06	0.02	0.06	0.23	0.03	
	Potassium	mg/L	20	22	25	54	26	23	25	25	25	27	
	Sodium	mg/L	3880	3370	3290	3790	3300	3700	3200	3300	3900	3400	
	Sulphate (as SO4)	mg/L	757	772	604	595	611	830	690	530	660	590	
	Total Alkalinity (as CaCO3)	mg/L	809	998	1040	848	1110	1100	1000	820	770	1000	
	Total Dissolved Solids	mg/L	14100	14100	13000	16200	12900	14000	15000	16000	15000	15000	
	Total Organic Carbon	mg/L	17	4	3	5	2	5	<5	<5	<5	68	
	pH	pH	6.4	6.7	6.6	6.5	6.63	5.7	6.1	5.74	6.37	6.6	
	Redox	mV	5.9	-5.4	32.2	-176.3	42.7	110	-120.5	-41.7	-129.7	70.1	
Standing Water Level	mAHD	40.9	40.9	40.5	40.3	40.01	39.24	39.826	40.42	40.52	40.49		
Temperature	°C	17.3	19.1	18.7	18.7	17.1	19.6	19.1	19.4	18.5	22		



### BH14A - EPL Monitoring Point 17

Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	0.26	0.01	0.01	0.25
	Arsenic	mg/L	0.001	0.001	0.001	0.001	0.005
	Barium	mg/L	0.08	0.043	0.088	0.04	<0.1
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.0005	<0.0001
	Cadmium	mg/L	0.0002	0.0001	0.0001	0.0001	<0.001
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.005
	Chromium (total)	mg/L	0.001	0.001	0.001	0.001	<0.005
	Cobalt	mg/L	0.003	0.002	0.169	0.008	0.1
	Copper	mg/L	0.058	0.04	0.006	0.001	0.04
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.5	0.2	0.4	0.2	<5
	Lead	mg/L	0.001	0.001	0.001	0.001	0.005
	Manganese	mg/L	0.42	0.458	6.16	0.559	3.4
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0005
	Nickel	mg/L	0.048	0.018	0.09	0.005	0.078
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.00002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.001	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.002	0.001	<0.1
	Selenium	mg/L	0.001	0.01	0.01	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.002	0.002	<0.001
Total Petroleum hydrocarbons	mg/L	0.3	0.05	0.1	0.1	<0.1	
Xylene	mg/L	0.003	0.002	0.002	0.002	<0.002	
Zinc	mg/L	0.13	0.029	0.078	0.005	0.083	



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### BH14B - EPL Monitoring Point 18

Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	Feb/Mar-22	May/Jun-22
Quarterly	Ammonia (as N)	mg/L	0.01	0.04	0.03	0.04	0.05	0.02	0.1	0.05	0.03	0.04
	Bicarbonate Alkalinity (as CaCO3)	mg/L	630	480	380	570	240	93	518	240	207	221
	Calcium	mg/L	120	110	92	130	79	86	115	79	67	54
	Carbonate Alkalinity (as CaCO3)	mg/L	10	10	10	10	10	10	1	10	1	1
	Chloride	mg/L	10000	9600	8800	11000	8800	10000	8910	8800	8220	8270
	Hydroxide Alkalinity (as CaCO3)	mg/L	20	20	20	20	20	20	1	20	1	1
	Magnesium	mg/L	760	730	4.3	850	690	940	718	690	793	725
	Nitrate & Nitrite (as N)	mg/L	0.21	0.1	0.05	0.05	0.05	0.05	0.01	0.05	0.02	0.08
	Nitrate (as N)	mg/L	0.21	0.1	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.08
	Nitrite (as N)	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
	Phosphate total (as P)	mg/L	0.05	0.05	0.02	0.02	0.04	0.05	0.18	0.04	0.05	0.06
	Potassium	mg/L	5.9	6.3	5	12.5	5.3	6.7	5	5.3	5	3
	Sodium	mg/L	5300	4600	660	5100	4600	5600	4370	4600	4590	4030
	Sulphate (as SO4)	mg/L	850	870	3800	600	740	510	700	740	617	652
	Total Alkalinity (as CaCO3)	mg/L	630	480	380	570	240	93	518	240	207	221
	Total Dissolved Solids	mg/L	16000	9500	14000	18000	17000	11000	18000	17000	17400	15500
	Total Organic Carbon	mg/L	6.2	26	58	5	5	5	4	5	6	11
	pH	pH	5.99	5.95	6.17	6.1	5.9	5.4	5.7	5.9	5.8	5.9
	Redox	mV	56	92.1	-32.6	45.3	46.7	206.8	162.3	46.7	5.1	-1.8
Standing Water Level	mAHD	38.943	38.673	38.603	39.4	38.9	40.0	40.0	38.9	39.7	40.7	
Temperature	°C	22.2	22.7	18.6	19.7	20.5	19.9	17.5	20.5	22.4	17.4	



### BH14B - EPL Monitoring Point 18

Monitoring Frequency	Pollutant	Unit	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24	May-24	Aug-24	Nov-24
<b>Quarterly</b>	Ammonia (as N)	mg/L	0.01	0.1	0.09	0.06	0.10	1.1	0.05	0.04	<0.01	<0.01
	Bicarbonate Alkalinity (as CaCO3)	mg/L	456	516	380	368	495	380	370	310	330	510
	Calcium	mg/L	111	118	92	100	112	99	<0.5	79	100	110
	Carbonate Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	<20	<20	<20	<20	<20
	Chloride	mg/L	9210	9040	8880	9200	8560	9000	9800	7900	9300	8900
	Hydroxide Alkalinity (as CaCO3)	mg/L	1	1	1	1	1	1	<20	<20	<20	<20
	Magnesium	mg/L	747	786	759	716	791	760	<0.5	640	890	820
	Nitrate & Nitrite (as N)	mg/L	0.01	0.02	0.01	0.01	0.04	0.07	0.04	0.05	0.13	<0.05
	Nitrate (as N)	mg/L	0.01	0.01	0.01	0.01	0.04	0.07	0.04	0.05	0.13	<0.02
	Nitrite (as N)	mg/L	0.01	0.01	0.01	0.01	0.01	0.01	<0.02	<0.02	<0.02	<0.02
	Phosphate total (as P)	mg/L	0.05	0.06	0.06	0.04	0.08	0.01	0.04	0.19	0.08	0.06
	Potassium	mg/L	5	5	4	5	6	5.4	<0.05	4.8	4.7	6
	Sodium	mg/L	45440	4570	4830	4610	4660	4800	<0.5	3900	5100	4400
	Sulphate (as SO4)	mg/L	770	784	637	671	687	750	710	540	670	640
	Total Alkalinity (as CaCO3)	mg/L	456	516	380	368	495	380	370	310	330	510
	Total Dissolved Solids	mg/L	16300	20900	17500	19200	17700	18000	18000	18000	17000	19000
	Total Organic Carbon	mg/L	14	3	2	2	1	5	<5	<5	<5	85
	pH	pH	6.1	6.5	5.8	5.9	6.1	5.54	5.56	5.89	5.94	5.62
	Redox	mV	57.2	48.0	10.6	101.7	2.8	180.9	116.2	90.1	150.4	188.7
Standing Water Level	mAHD	38.8	39.9	39.1	39.1	39.5	39.95	40.13	40.46	40.61	40.63	
Temperature	°C	17.5	23.4	19.6	18.5	15.1	18.9	19.5	20.2	17.4	20.5	



BH14B - EPL Monitoring Point 18							
Monitoring Frequency	Pollutant	Unit	Aug-20	Aug-21	Aug-22	Aug-23	Aug-24
Yearly	Aluminium	mg/L	0.05	5.53	0.01	0.01	<0.25
	Arsenic	mg/L	0.001	0.002	0.001	0.001	<0.005
	Barium	mg/L	0.1	0.072	0.057	0.05	<0.1
	Benzene	mg/L	0.001	0.001	0.001	0.001	<0.0001
	Benzo(a)pyrene	mg/L	0.001	0.0005	0.005	0.0005	<0.0001
	Cadmium	mg/L	0.0005	0.0002	0.0002	0.0005	0.0011
	Chromium (hexavalent)	mg/L	0.005	0.01	0.01	0.001	<0.005
	Chromium (total)	mg/L	0.001	0.009	0.001	0.001	<0.005
	Cobalt	mg/L	0.12	0.117	0.136	0.104	0.097
	Copper	mg/L	0.071	0.067	0.004	0.002	0.078
	Ethyl benzene	mg/L	0.001	0.002	0.002	0.002	<0.0001
	Fluoride	mg/L	0.6	0.7	0.6	0.6	<5
	Lead	mg/L	0.004	0.009	0.001	0.001	0.008
	Manganese	mg/L	570	4.75	6.5	4.58	5
	Mercury	mg/L	0.0001	0.0001	0.0001	0.0001	<0.0005
	Nickel	mg/L	0.08	0.163	0.093	0.074	0.12
	Organochlorine pesticides	mg/L	0.01	0.002	0.002	0.0005	<0.0002
	Organophosphate pesticides	mg/L	0.02	0.002	0.002	0.0005	<0.02
	PAHs	mg/L	0.001	0.001	0.002	0.0005	<0.001
	PCBs	mg/L	0.001	0.001	0.001	0.001	<0.005
	Phenols	mg/L	0.1	0.002	0.001	0.001	<0.1
	Selenium	mg/L	0.002	0.01	0.002	0.01	<0.001
	Toluene	mg/L	0.001	0.002	0.01	0.002	<0.001
	Total Petroleum hydrocarbons	mg/L	0.1	0.05	0.002	0.1	<0.1
Xylene	mg/L	0.003	0.002	0.001	0.002	<0.002	
Zinc	mg/L	0.15	0.801	0.002	0.051	0.15	



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Leachate sump riser - EPL monitoring point 20											
Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	
Quarterly	Electroconductivity	us/cm	1419	5554	4809	4971	4632	N/A*	N/A*	3206	
	pH	pH	7.29	8.15	7.15	8.08	7.8	N/A*	N/A*	8.56	
	Standing Water Level	mAHD	27.76	26.62	26.8	27.71	28.36	N/A*	N/A*	N/A*	
Monitoring Frequency	Pollutant	Unit	Feb/Mar-22	May-22	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24
Quarterly	Electroconductivity	us/cm	N/A*	N/A*	N/A*	5878	6358	6677	5731	9023	4040
	pH	pH	N/A*	N/A*	N/A*	7.05	7.08	8.48	7.47	7.06	8.47
	Standing Water Level	mAHD	N/A*	N/A*	N/A*	27.3	26.62	25.98	26.47	25.0	42.5
Monitoring Frequency	Pollutant	Unit	May-24	Aug-24	Nov-24						
Quarterly	Electroconductivity	us/cm	4997	4172	4615						
	pH	pH	6.92	6.89	6.99						
	Standing Water Level	mAHD	16.385	15.32	15.27						
* - N/A – not accessible											



Leachate Dam Entry - EPL monitoring point 21											
Monitoring Frequency	Pollutant	Unit	Feb-20	May-20	Aug-20	Nov-20	Feb-21	May-21	Aug-21	Nov-21	
Quarterly	Electroconductivity	us/cm	1537	3014	3248	3870	3759	2938	TBC	3847	
	pH	pH	7.94	7.62	7.68	8.25	8.25	7.73	8.7	7.82	
	Standing Water Level	mAHD	45.6	48.1	49.1	48.78	48.75	49.05	49	49.18	
Monitoring Frequency	Pollutant	Unit	Feb/Mar-22	May-22	Aug-22	Nov-22	Feb-23	May-23	Aug-23	Nov-23	Feb-24
Quarterly	Electroconductivity	us/cm	2500	1954	2206	2.4	3373	3402	3990	5058	4540
	pH	pH	8.45	9.29	8.9	7.99	8.61	8.77	8.31	7.76	8.53
	Standing Water Level	mAHD	49.27	49.18	49.1	49.05	49.01	48.90	NA	NA	50
Monitoring Frequency	Pollutant	Unit	May-24	Aug-24	Nov-24						
Quarterly	Electroconductivity	us/cm	3631	3787	3618						
	pH	pH	8.22	8	8.62						
	Standing Water Level	mAHD	48.5	TBC	TBC						



**Leachate Annual Monitoring**

**Monitoring Frequency - Annual**

Pollutant	Unit	08/2020 Sump Riser EPL MP20	08/2020 Dam entry EPL MP21	08/2021 Sump Riser EPL MP20	08/2021 Dam entry EPL MP21
Alkalinity (as CaCO <sub>3</sub> )	mg/L	1300	1200	Not Accessible	596
Aluminium	ug/L	0.05	0.05	Not Accessible	0.17
Arsenic	mg/L	0.007	0.01	Not Accessible	0.009
Barium	mg/L	0.34	0.2	Not Accessible	0.131
Benzene	mg/L	0.0001	0.001	Not Accessible	0.001
Bicarbonate Alkalinity (as CaCO <sub>3</sub> )	mg/L	1300	1200	Not Accessible	583
Biochemical Oxygen Demand	mg/L	110	160	Not Accessible	6
Cadmium	mg/L	0.0003	0.0003	Not Accessible	<0.0001
Calcium	mg/L	150	100	Not Accessible	75
Chemical Oxygen Demand	mg/L	420	640	Not Accessible	257
Chloride	mg/L	1000	590	Not Accessible	608
Chromium (hexavalent)	mg/L	0.075	0.075	Not Accessible	<0.10
Chromium (total)	mg/L	0.023	0.03	Not Accessible	0.020
Cobalt	mg/L	0.002	0.03	Not Accessible	0.003
Copper	mg/L	0.037	0.094	Not Accessible	0.007
Ethyl benzene	mg/L	0.007	0.001	Not Accessible	0.002
Fluoride	mg/L	0.8	0.6	Not Accessible	0.2
Lead	mg/L	0.003	0.006	Not Accessible	0.001
Magnesium	mg/L	91	72	Not Accessible	77
Manganese	mg/L	0.51	0.18	Not Accessible	0.037
Mercury	mg/L	0.0001	0.0001	Not Accessible	<0.0001
Nickel	mg/L	0.022	0.025	Not Accessible	0.018
Nitrate	mg/L	0.1	0.2	Not Accessible	37.8
Nitrite (as N)	mg/L	0.1	0.2	Not Accessible	0.42
Organochlorine pesticides	mg/L	0.01	0.01	Not Accessible	0.002
Organophosphate pesticides	mg/L	0.02	0.02	Not Accessible	0.002
Phenols	mg/L	0.1	0.01	Not Accessible	0.002
Phosphate total (as P)	mg/L	0.29	0.5	Not Accessible	N/A
Phosphorus (total as P)	mg/L			Not Accessible	0.38
Polycyclic aromatic hydrocarbons (PAH)	mg/L	0.001	0.001	Not Accessible	0.0005
Potassium	mg/L	48	61	Not Accessible	71
Sodium	mg/L	600	390	Not Accessible	440
Sulphate (as SO <sub>4</sub> )	mg/L	120	95	Not Accessible	115
Toluene	mg/L	0.007	0.004	Not Accessible	0.002
Total Dissolved Solids	mg/L	2600	1900	Not Accessible	2010
Total Organic Carbon	mg/L	110	250	Not Accessible	92
Total Petroleum hydrocarbons	mg/L	4.5	6.9	Not Accessible	0.51
Total Suspended Solids	mg/L	39	77	Not Accessible	18
Xylene	mg/L	0.02	0.007	Not Accessible	0.002



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**Monitoring Frequency - Annual**

Zinc	mg/L	0.081	0.12	Not Accessible	0.081	
<b>Leachate Annual Monitoring</b>						
Pollutant	Unit	08/2022 Sump Riser EPL MP20	08/2022 Dam Entry EPL MP21	08/2023 Sump Riser EPL MP20	08/2023 Dam Entry EPL MP21	
Alkalinity (as CaCO3)	mg/L	Not Accessible	366	1	72	
Aluminium	ug/L	Not Accessible	0.01	0.08	0.04	
Arsenic	ug/L	Not Accessible	0.006	0.002	0.004	
Barium	mg/L	Not Accessible	0.028	0.564	0.247	
Benzene	mg/L	Not Accessible	0.001	0.002	0.001	
Bicarbonate Alkalinity (as CaCO3)	mg/L	Not Accessible	312	2050	1030	
Biochemical Oxygen Demand	mg/L	Not Accessible	2	20	5	
Cadmium	mg/L	Not Accessible	0.0001	0.001	0.0001	
Calcium	mg/L	Not Accessible	17	142	57	
Chemical Oxygen Demand	mg/L	Not Accessible	163			
Chloride	mg/L	Not Accessible	487	944	644	
Chromium (hexavalent)	mg/L	Not Accessible	<0.001	0.019	0.01	
Chromium (total)	mg/L	Not Accessible	0.004	0.019	0.01	
Cobalt	mg/L	Not Accessible	0.002	0.003	0.002	
Copper	mg/L	Not Accessible	0.006	0.004	0.001	
Ethyl benzene	mg/L	Not Accessible	0.002	0.002	0.002	
Fluoride	mg/L	Not Accessible	0.2	0.6	0.4	
Lead	mg/L	Not Accessible	0.001	0.001	0.001	
Magnesium	mg/L	Not Accessible	60	102	91	
Manganese	mg/L	Not Accessible	0.003	0.538	0.094	
Mercury	mg/L	Not Accessible	0.0001	0.0001	0.0001	
Nickel	mg/L	Not Accessible	0.012	0.12	0.016	
Nitrate	mg/L	Not Accessible	17.2	0.18	0.010	
Nitrite (as N)	mg/L	Not Accessible	0.04	0.1	0.04	
Organochlorine pesticides	mg/L	Not Accessible	0.002	0.0005	0.0005	
Organophosphate pesticides	mg/L	Not Accessible	0.002	0.0005	0.0005	
Phenols	mg/L	Not Accessible	2	0.001	0.001	
Phosphate total (as P)	mg/L	Not Accessible	0.06	0.5	0.21	
Phosphorus (total as P)	mg/L	Not Accessible	0.06	0.5	0.21	
Polycyclic aromatic hydrocarbons (PAH)	mg/L	Not Accessible	0.001	0.0005	0.0005	
Potassium	mg/L	Not Accessible	56	76	81	
Sodium	mg/L	Not Accessible	354	676	539	
Sulphate (as SO4)	mg/L	Not Accessible	70	20	83	
Toluene	mg/L	Not Accessible	0.002	0.002	0.002	
Total Dissolved Solids	mg/L	Not Accessible	1400	4190	2590	
Total Organic Carbon	mg/L	Not Accessible	56	119	94	
Total Petroleum hydrocarbons	mg/L	Not Accessible	100	1.27	0.4	
Total Suspended Solids	mg/L	Not Accessible	5	26	12	



Xylene	mg/L	Not Accessible	0.002	0.005	0.002
Zinc	mg/L	Not Accessible	0.018	0.021	0.033

**Leachate Annual Monitoring**

**Monitoring Frequency - Annual**

Pollutant	Unit	08/2024 Sump Riser EPL MP20	08/2024 Dam Entry EPL MP21		
Alkalinity (as CaCO3)	mg/L	420	920		
Aluminium	ug/L	<0.05	<0.05		
Arsenic	ug/L	<0.001	0.004		
Barium	mg/L	0.08	0.28		
Benzene	mg/L	0.001	<0.001		
Bicarbonate Alkalinity (as CaCO3)	mg/L	420	920		
Biochemical Oxygen Demand	mg/L	<5	<5		
Cadmium	mg/L	<0.0002	<0.0002		
Calcium	mg/L	87	70		
Chemical Oxygen Demand	mg/L	35	210		
Chloride	mg/L	470	610		
Chromium (hexavalent)	mg/L	<0.005	<0.005		
Chromium (total)	mg/L	0.002	0.007		
Cobalt	mg/L	0.001	0.0020		
Copper	mg/L	0.007	0.002		
Ethyl benzene	mg/L	<0.001	<0.001		
Fluoride	mg/L	0.6	1.5		
Lead	mg/L	<0.001	<0.001		
Magnesium	mg/L	47	68		
Manganese	mg/L	0.2	0.26		
Mercury	mg/L	<0.0001	<0.0001		
Nickel	mg/L	0.006	0.013		
Nitrate	mg/L	4.2	<0.02		
Nitrite (as N)	mg/L	<0.02	<0.02		
Organochlorine pesticides	mg/L	<0.002	<0.002		



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Organophosphate pesticides	mg/L	<0.02	<0.02		
Phenols	mg/L	<0.1	<0.1		
Phosphate total (as P)	mg/L	0.09	0.24		
Phosphorus (total as P)	mg/L	<0.05	<0.05		
Polycyclic aromatic hydrocarbons (PAH)	mg/L	<0.001	<0.001		
Potassium	mg/L	14	53		
Sodium	mg/L	370	520		
Sulphate (as SO4)	mg/L	290	130		
Toluene	mg/L	<0.001	<0.001		
Total Dissolved Solids	mg/L	1800	2200		
Total Organic Carbon	mg/L	12	94		
Total Petroleum hydrocarbons	mg/L	0.2	1.27		
Total Suspended Solids	mg/L	<5	<5		
Xylene	mg/L	0.004	<0.003		
Zinc	mg/L	0.02	0.014		



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