Table 1.1 GMBH1				
Date	**15/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Methane	0	0	<0.1	<0.1

Table 1.2 GMBH2				
Date	**15/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Methane	0	0.1	<0.1	<0.1

Table 1.3 GMBH4				
Date	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Methane	0	0	<0.1	0.2

Table 2.1 Landfill Gas Booster (Annual)		
Date		**06/07/2023**
Carbon dioxide	%	34.8
Dry gas density	mg/m³	1,300,000
Moisture content	%	0.75
Oxygen (O2)	°C	3.5
Temperature	mg/m³	2
Volatile organic compounds	m³/s	650.00
Volumetric flowrate	m³/s	1.1

Table 2.2 Landfill Gas Booster (Monthly)													
Date (Monthly)	**Unit**	**07/09/2022**	**07/10/2022**	**02/11/2022**	**20/12/2022**	**23/01/2023**	**22/02/2023**	**30/03/2023**	**06/04/2023**	**15/05/2023**	**20/06/2023**	**26/07/2023**	**17/08/2023**
Volumetric flowrate	m³/s	1.65	1.51	1.61	1.52	1.50	1.58	1.50	1.51	1.60	1.65	1.61	1.49
Hydrogen Suphide	ppm	880	814	944	851	1200	2306	700	750	980	700	850	562

Table 3.1 Landfill Surface Gas (Monthly)													
Pollutant	**Measurement**	**Unit**	**29/09/2023**	**20/10/2022**	**15/11/2023**	**06/12/2023**	**12/01/2023**	**16/02/2023**	**15/03/2023**	**21/04/2023**	**22/05/2023**	**28/06/2023**	**27/07/2023**	**17/08/2023**
Methane	Minimum	ppm	2	0	0	0	0	0	0	1	0	6	0	0
	Average	ppm	115	199	66	46	75	93	85	153	57	53	61	42
	Maximum	ppm	3200	14000	1500	609	2500	1300	600	2700	402	460	359	800
Hydrogen Sulphide	Minimum	ppm	0	0	0	0	0	0	0	0	0	0	0	0
	Average	ppm	0.047	0.247	0.086	0.124	0.042	0.203	0.082	0.067	0.02	0.008	0	0.01
	Maximum	ppm	3.2	15.4	4.3	19	2.5	7	7.1	3.6	1.7	0.9	0	2

Table 4.1 Landfill Gas Engine #2 Exhaust		
06/07/2023		
Carbon Dioxide	%	9.8
Carbon Monoxide	mg/m^3	960
Dry Gas Density	mg/m^3	1,340,000
Hydrogen Sulphide	mg/m^3	<1
Moisture Content	%	11
Molcular Weight Of Stack Gases	g/gmol	28.7
Nitrogen Oxides	mg/m^3	310
Oxygen	%	9.2
Sulfuric Acid Mist & Sulfur Trioxides S03	mg/m^3	4.8
Sulphur Dioxide	mg/m^3	210
Temperature	°C	445
Velocity	m/sec	50
Volatile Organic Compounds	mg/m^3	29
Volumetric Flowrate	m^3/s	4.8

Table 4.2 Landfill Gas Flare #1		
05/07/2023		
Designed Residence time	seconds	<0.8
Designed Temparature	°C	1100
Hydrogen Sulphide	mg/m^3	>0.3

Table 4.3 Landfill Gas Flare #2		
05/07/2023		
Designed Residence time	seconds	<0.9
Designed Temparature	°C	1102
Hydrogen Sulphide	mg/m^3	>0.3

Table 4.4 Landfill Gas Flare #3		
05/07/2023		
Designed Residence time	seconds	<0.8
Designed Temparature	°C	1102
Hydrogen Sulphide	mg/m^3	>0.3

Table 5.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth												
Month	**Sep-2022**	**Oct-2022**	**Nov-2022**	**Dec-2022**	**Jan-2023**	**Feb-2023**	**Mar-2023**	**Apr-2023**	**May-2023**	**Jun-2023**	**Jul-2023**	**Aug-2023**
DG 22	1	0.9	1.3	1.8	3.4	8.4	2.7	3.2	0.7	8.6	4.3	2.1
DG 34	8.4	3.5	2.2	9.8	72.1	4.2	2.1	1.4	1.8	1.6	0.7	3.6
DG 28	5.3	1.1	12.5	3.1	1.2	1.2	1.2	0.6	0.4	0.8	0.3	0.7

Table 6.1 Site 115 – Allianoyonyiga Creek					
Pollutant	**Unit**	**15/09/2022**	**13/12/2022**	**01/05/2023**	**15/08/2023**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	0.16
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<5
Conductivity	µS/cm	2130	375	1120	3542
pH	pH	8.01	7.93	7.89	7.73
Total Dissolved Solids	mg/L	2050	1880	810	2700
Total Organic Carbon	mg/L	12	17	18	11
Total Potassium	mg/L	1.4	2.3	4	3
Dissolved Oxygen	mg/L	8.0	8.2	8.5	8.7
Oxidation-Reduction Potential	mV	236	89	56	116

Table 6.2 Spring 2					
Pollutant	**Unit**	**16/11/2022**	**14/02/2023**	**17/05/2023**	**16/08/2023**
Nitrogen (ammonia)	mg/L	0.009	0.062	0.046	0.37
Biochemical Oxygen Demand	mg/L	<5	55	20	<5
Conductivity	µS/cm	881	4257	3640	6952
pH	pH	7.3	7.52	7.13	7.49
Total Dissolved Solids	mg/L	890	3700	3300	6500
Total Organic Carbon	mg/L	13	53	37	25
Total Potassium	mg/L	<0.5	5	3	2
Dissolved Oxygen	mg/L	9.63	6.63	8.13	12.71
Oxidation-Reduction Potential	mV	38.7	-53.4	2.3	-4.7

Table 6.3 Site 105 – Crisps Creek					
Pollutant	**Unit**	**29/09/2022**	**15/02/2023**	**01/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	<0.1	0.18	<0.1	0.13
Biochemical Oxygen Demand	mg/L	<2	64	<2	<5
Conductivity	µS/cm	1250	255.1	1260.43	3116
pH	pH	7.97	6.95	7.66	7.74
Total Dissolved Solids	mg/L	843	2100	1150	2000
Total Organic Carbon	mg/L	26	43	18	18
Total Potassium	mg/L	1.5	<0.05	<4.6	4
Dissolved Oxygen	mg/L	8.2	4.0	8.8	8.4
Oxidation-Reduction Potential	mV	231	133.7	332	-156.1

Table 6.4 WM200 Raw Water Dam					
Pollutant	**Unit**	**15/11/2023**	**27/06/2023**	**15/08/2023**	**25/09/2023**
Nitrogen (ammonia)	mg/L	0.042	2	2.1	
Biochemical Oxygen Demand	mg/L	<5	<5	<5	
Conductivity	µS/cm	548	1062	1062	
pH	pH	8.02	6.48	8.09	
Total Dissolved Solids	mg/L	370	670	640	
Total Organic Carbon	mg/L	5	9	18	
Total Potassium	mg/L	3	11	14	
Dissolved Oxygen	mg/L	8.65	10	9.85	
Oxidation-Reduction Potential	mV	-43.8	229.6	53.6	

Table 6.5 WM201 – Entrance Road Culvert					
Pollutant	**Unit**	**16/11/2022**	**14/02/2023**	**16/05/2023**	**15/08/2023**
Nitrogen (ammonia)	mg/L	0.7		0.047	0.230
Biochemical Oxygen Demand	mg/L	<5		8	<5

Conductivity	µS/cm	3059		377.6	431.1
pH	pH	7		6.97	7.58
Total Dissolved Solids	mg/L	280	Dry	300	300
Total Organic Carbon	mg/L	8		10	8
Total Potassium	mg/L	3		3	2
Dissolved Oxygen	mg/L	9.62		9.7	9.57
Oxidation-Reduction Potential	mV	-57.3		-23.1	52.3

Table 6.6 ED3SS – Lagoon 5

Pollutant	Unit	15/11/2022	14/02/2023	17/05/2023	15/08/2023
Nitrogen (ammonia)	mg/L	93	210	150	140
Biochemical Oxygen Demand	mg/L	1750	2200	1100	1160
Conductivity	µS/cm	14566	21729	18847	19098
pH	pH	8.4	8.37	8.35	8.43
Total Dissolved Solids	mg/L	14000	17000	17000	15000
Total Organic Carbon	mg/L	1100	1700	2400	1900
Total Potassium	mg/L	1100	1400	1500	1300
Dissolved Oxygen	mg/L	0.33	0.33	0	0.05
Oxidation-Reduction Potential	mV	-151.4	-150.2	-237.8	-182.9

Table 6.7 WM203 – Evaporation Dam 3 North

Pollutant	Unit	14/02/2023	17/05/2023	15/08/2023	30/08/2023
Nitrogen (ammonia)	mg/L	220	190	240	11
Biochemical Oxygen Demand	mg/L	1050	990	620	480
Conductivity	µS/cm	28898	28835	28080	27666
pH	pH	8.38	8.28	8.42	8.42
Total Dissolved Solids	mg/L	24000	24000	22000	23000
Total Organic Carbon	mg/L	2000	2400	2000	1900
Total Potassium	mg/L	1900	2100	2000	2000
Dissolved Oxygen	mg/L	1.9	0	0.01	0.02
Oxidation-Reduction Potential	mV	-112.9	-237.1	-199.2	-205.3

Table 6.8 Pond 5

Pollutant	Unit	16/11/2022	15/02/2023	18/05/2023	16/08/2023
Nitrogen (ammonia)	mg/L	430	190	430	150
Biochemical Oxygen Demand	mg/L	310	17	36	<5
Conductivity	µS/cm	6084	4316	8405	16970
pH	pH	7.3	6.65	7.02	6.67
Total Dissolved Solids	mg/L	5600	3400	5200	2600
Total Organic Carbon	mg/L	580	74	180	42
Total Potassium	mg/L	200	82	210	56
Dissolved Oxygen	mg/L	2.95	2.18	2.57	0.31
Oxidation-Reduction Potential	mV	-94.2	133.7	87.4	-147.2

Table 6.9 WM202 – ED3S

Pollutant	Unit	15/11/2022	14/2/2023	17/5/2023	15/8/2023
Nitrogen (ammonia)	mg/L	24	30	30	31
Biochemical Oxygen Demand	mg/L	<5	30	<5	<5
Conductivity	µS/cm	2787	3588	3496	3455
pH	pH	4.46	4.11	4.06	4.29
Total Dissolved Solids	mg/L	2600	3300	3200	3200
Total Organic Carbon	mg/L	4	10	11	11

Total Potassium	mg/L	12	15	16	16
Dissolved Oxygen	mg/L	8.1	7.09	7.83	10.22
Oxidation-Reduction Potential	mV	271.4	196.6	142.1	224.9

Table 6.10 ED1 – Evaporation Dam 1

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Nitrogen (ammonia)	mg/L	13	10	11	13
Biochemical Oxygen Demand	mg/L	18	34	<5	<5
Conductivity	µS/cm	13018	14452	14565	14444
pH	pH	3.45	3.02	3.09	3.11
Total Dissolved Solids	mg/L	19000	21000	22000	22000
Total Organic Carbon	mg/L	24	24	34	31
Total Potassium	mg/L	110	120	160	180
Dissolved Oxygen	mg/L	8.45	6.65	8.75	9.41
Oxidation-Reduction Potential	mV	490.9	388.2	263.9	433.4

Table 6.11 ED1 Coffer Dam#1

Pollutant	Unit	29/09/2022	27/10/2022	24/11/2022	29/12/2022	25/01/2023	23/02/2023	30/03/2023	27/04/2023	25/05/2023	29/06/2023	27/07/2023	31/08/2023
Nitrogen (ammonia)	mg/L	<10	<10	<10	<10	<10	4	<1	<10	<10	<10	<1	<1
Biochemical Oxygen Demand	mg/L	20	3	2	5	103	2	6	6	8	31	5	4
Conductivity	µS/cm	18400	17300	17500	17000	18600	18700	20200	2000	19500	19600	18900	19600
pH	pH	8.79	8.78	8.65	8.84	9.01	9.04	9.01	9.07	9.16	8.91	9.04	9.09
Total Dissolved Solids	mg/L	14700	12800	12900	13700	13800	14100	14500	14900	14500	14800	15400	14900
Total Suspended Solids	mg/L	46.4	41	50.7	32.4	947	417	122	95.6	119	93	147	38.4
Chloride	mg/L	3020	2470	2600	2750	3070	2960	3140	3160	3070	3480	2720	2510
Nitrate	mg/L	697	635	636	669	751	649	660	752	686	758	597	686
Phosphorous	mg/L	4.14	3.07	3.04	3.4	<10	3.61	3.76	3.54	3.08	4.18	3.31	3.68
Chemical Oxygen Demand	mg/L	2120	1680	1510	1540	2210	1670	1670	1740	1720	1680	5440	1570

Table 6.12 ED1 Coffer Dam#2

Pollutant	Unit	27/07/2023	31/08/2023
Nitrogen (ammonia)	mg/L	<2	1.3
Biochemical Oxygen Demand	mg/L	7	6
Conductivity	µS/cm	18100	19800
pH	pH	8.44	8.51
Total Dissolved Solids	mg/L	14400	14900
Total Suspended Solids	mg/L	18.5	4
Chloride	mg/L	2620	2370
Nitrate	mg/L	617	661
Phosphorous	mg/L	5.84	6.02
Chemical Oxygen Demand	mg/L	2460	1970

Table 7.1 Leachate Dam			
Pollutant	**Unit***	**Frequency**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	Annual	13000
Aluminium	mg/L	Annual	4.7
Arsenic	mg/L	Annual	0.4
Barium	mg/L	Annual	0.079
Benzene	µg/L	Annual	<0.1
Cadmium	mg/L	Annual	0.0039
Calcium	mg/L	Annual	110
Chloride	mg/L	Annual	3500
Chromium (Hex)	mg/L	Annual	<0.005
Chromium (Total)	mg/L	Annual	0.77
Cobalt	mg/L	Annual	0.11
Conductivity	µS/cm	Annual	26908
Copper	mg/L	Annual	0.014
Ethyl Benzene	µg/L	Annual	<0.1
Fluoride	mg/L	Annual	1
Lead	mg/L	Annual	0.004
Magnesium	mg/L	Annual	130
Manganese	mg/L	Annual	0.16
Mercury	mg/L	Annual	<0.5
Nitrate	mg/L	Annual	<0.05
Nitrite	mg/L	Annual	<0.05
Nitrogen (ammonia)	mg/L	Annual	2200
Organo-chlorine pesticides	mg/L	Annual	<0.004
Organo-phosphate pesticides	mg/L	Annual	<0.0024
pH	pH	Annual	8.5
Phosphorous	mg/L	Annual	26
Polycyclic Aromatic	µg/L	Annual	<0.001
Potassium	mg/L	Annual	1400
Sodium	mg/L	Annual	3200
Sulphate	mg/L	Annual	300
Toluene	µg/L	Annual	<0.1
Total Dissolved Solids	mg/L	Annual	16000
Total Organic Carbon	mg/L	Annual	4100
Total Phenols	mg/L	Annual	5.6
Total Suspended Solids	mg/L	Annual	4300
TPH C10-C14	µg/L	Annual	8.2
TPH C15- C28	µg/L	Annual	20
TPH C29-C36	µg/L	Annual	0.86
TPH C6-C9	µg/L	Annual	<1
Xylene	µg/L	Annual	<0.1
Zinc	mg/L	Annual	0.96

Table 7.2 Leachate Recirculation System			
Pollutant	**Unit***	**Frequency**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	Annual	18000
Aluminium	mg/L	Annual	5
Arsenic	mg/L	Annual	0.72
Barium	mg/L	Annual	0.27
Benzene	µg/L	Annual	<0.1
Cadmium	mg/L	Annual	0.0011
Calcium	mg/L	Annual	50
Chloride	mg/L	Annual	3700
Chromium (Hex)	mg/L	Annual	<0.005
Chromium (Total)	mg/L	Annual	1.2
Cobalt	mg/L	Annual	0.098
Conductivity	µS/cm	Annual	38551
Copper	mg/L	Annual	0.021
Ethyl Benzene	µg/L	Annual	<0.1
Fluoride	mg/L	Annual	1
Lead	mg/L	Annual	0.007
Magnesium	mg/L	Annual	110
Manganese	mg/L	Annual	0.51
Mercury	mg/L	Annual	<0.5
Nitrate	mg/L	Annual	<0.05
Nitrite	mg/L	Annual	<0.05
Nitrogen (ammonia)	mg/L	Annual	3600
Organo-chlorine pesticides	mg/L	Annual	<0.004
Organo-phosphate	mg/L	Annual	<0.0024
pH	pH	Annual	8.18
Phosphorous	mg/L	Annual	25
Polycyclic Aromatic	µg/L	Annual	<0.001
Potassium	mg/L	Annual	1400
Sodium	mg/L	Annual	3400
Sulphate	mg/L	Annual	36
Toluene	µg/L	Annual	<0.1
Total Dissolved Solids	mg/L	Annual	17000
Total Organic Carbon	mg/L	Annual	4200
Total Phenols	mg/L	Annual	7
Total Suspended Solids	mg/L	Annual	210
TPH C10-C14	µg/L	Annual	13
TPH C15- C28	µg/L	Annual	36
TPH C29-C36	µg/L	Annual	1.4
TPH C6-C9	µg/L	Annual	<1
Xylene	µg/L	Annual	<0.1
Zinc	mg/L	Annual	0.44

Table 8.1 Effluent from Leachate Treatment Plant (LTP)										
Date	**pH**	**Conductivity (uS/cm)**	**COD (mg/L)**	**BOD (mg/L)**	**Total Phosphorous (mg/L)**	**Ammonia (NH4-N) (mg/L)**	**Nitrate (NO3-N) (mg/L)**	**TSS (mg/L)**	**TDS (mg/L)**	**Chloride (mg/L)**
08/09/2022	7.8	14200	1260	<2	5.7	<10	550	<0.5	10600	1820
15/09/2022	7.7	13800	1260	2.0	3.3	<10	563	1.8	10500	1710
21/09/2022	7.6	11800	1210	3.0	2.5	<0.1	214	0.8	10300	1770
29/09/2022	7.6	12500	1070	<2	2.4	<10	451	0.7	9900	1710
06/10/2022	7.7	13900	1280	2.0	2.6	<10	600	1.0	10400	1700
13/10/2022	7.8	14200	1170	2.0	2.3	<10	538	<0.5	10800	1670
20/10/2022	7.7	13300	1100	<2	2.8	<10	626	0.6	10300	2530
27/10/2022	7.7	13000	1420	<2	2.1	<10	461	<0.5	9860	1760
03/11/2022	7.7	12900	975	2.0	2.0	<10	502	<0.5	9510	1710
10/11/2022	7.8	14200	1230	<2	3.0	<10	774	<0.5	11100	1790
17/11/2022	7.5	15200	1180	<2	3.1	<10	901	0.8	11800	1640
24/11/2022	7.8	13600	1310	2.0	2.8	<10	623	<0.5	10600	1230
01/12/2022	7.8	12800	1190	<2	2.2	<10	630	0.5	9880	1660
08/12/2022	7.8	14000	1300	<2	2.0	6.9	709	<2	10900	1880
15/12/2022	7.7	15000	1540	<2	2.3	<10	697	<0.5	11600	2020
22/12/2022	7.7	15200	1480	2.0	2.3	9.6	828	<0.5	13000	2170
29/12/2022	7.7	16600	1630	3.0	4.3	<10	1040	<0.5	14000	2300
05/01/2023	7.8	17300	2040	4.0	3.9	<10	859	1.5	14100	2350
12/01/2023	7.7	18600	1880	<2	4.5	<10	1170	2.1	14700	2590
19/01/2023	7.8	16100	2140	3.0	5.8	<10	1040	2.7	15000	2410
25/01/2023	7.7	17800	1860	2.0	<20	<10	1090	<0.5	13900	3100
02/02/2023	8.0	16300	1540	2.0	3.5	<10	818	0.8	11800	2430
09/02/2023	8.0	16100	1100	3.0	2.8	<10	833	<0.5	12200	2360
16/02/2023	7.7	15000	1610	2.0	1.4	<10	866	<0.5	12000	1940
23/02/2023	8.0	15900	1780	2.0	1.4	1.3	625	<0.5	12600	2090
02/03/2023	8.0	17100	1860	5.0	1.3	<10	636	<0.5	11500	2340
09/03/2023	8.2	16000	1770	4.0	1.5	29.7	796	0.7	13600	2580
16/03/2023	7.7	19000	1970	4.0	1.7	<10	963	3.1	14900	2640
23/03/2023	8.0	19900	2020	4.0	1.8	<10	795	<0.5	12900	2810
30/03/2023	8.1	18900	1950	3.0	2.4	<10	645	0.6	13600	2920
06/04/2023	7.8	18200	1760	3.0	1.9	<10	654	<0.5	13300	2440
13/04/2023	8.1	17700	1710	<2	2.1	<10	629	<0.5	12300	2560
20/04/2023	7.9	18400	1420	4.0	3.1	<10	885	1.9	13600	2370
27/04/2023	8.0	16800	1680	3.0	2.1	<10	567	<0.5	12500	2460
04/05/2023	7.9	15800	1550	3.0	1.2	<10	468	1.0	11400	2310
11/05/2023	8.1	14000	1340	2.0	1.1	<10	323	<0.5	10100	2030
18/05/2023	7.9	13400	1460	3.0	0.9	<10	272	<0.5	9770	1780
25/05/2023	7.7	14800	1840	4.0	1.6	<10	343	0.5	10700	2140
01/06/2023	7.6	15400	1830	4.0	1.7	<10	329	1.6	11200	2660
08/06/2023	7.7	16500	1970	3.0	2.6	<10	508	4.0	12400	2490
15/06/2023	7.9	17900	2020	3.0	3.7	<10	674	1.8	13900	2540
22/06/2023	7.8	18500	2390	4.0	4.9	<10	784	<0.5	15400	3580
29/06/2023	7.7	19200	2480	4.0	5.0	<10	760	1.8	15200	3650
06/07/2023	7.9	18500	2380	5.0	3.7	<10	625	<0.5	14500	2390
13/07/2023	7.9	18100	2350	4.0	5.2	<10	534	<0.5	13500	2260
20/07/2023	7.7	19000	2290	<2	7.3	<10	739	<0.5	14700	2420
27/07/2023	8.0	19800	2310	3.0	7.2	<10	830	<0.5	16600	2490
03/08/2023	7.9	20300	2490	3.0	5.9	<2	645	<0.5	15800	2590
10/08/2023	8.0	19600	2550	4.0	4.8	<10	638	3.6	15400	2440
17/08/2023	8.1	18400	1740	2.0	4.1	<10	436	<0.5	13800	2420
24/08/2023	8.0	19300	2330	2.0	3.9	<10	629	3.5	14800	2470
31/08/2023	8.1	19600	2040	2.0	6.4	1.2	723	<0.5	14700	2850

Table 9.1 MB1					
Pollutant	**Unit**	**14/11/2022**	**13/02/2023**	**17/05/2023**	**16/08/23**
Alkalinity (as CaCO3)	mg/L	380	380	280	400
Nitrogen (ammonia)	mg/L	<0.005	<0.005	0.22	0.022
Chloride	mg/L	250	280	280	310
Calcium	mg/L	170	170	170	160
Magnesium	mg/L	90	94	91	94
Potassium	mg/L	7.9	7.7	8.4	7.6
Sodium	mg/L	59	84	74	58
pH	pH	6.75	6.8	7.39	7.46
Sulphate	mg/L	320	300	270	310
Total Dissolved Solids	mg/L	1400	1300	1300	1300
Standing water level	m	12.53	13.71	14.29	13.69
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.120	
Benzene	mg/L			<0.001	
Cadmium	mg/L			<0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.003	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			0.0010	
Manganese	mg/L			0.26	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.04	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			<0.31	

Table 9.2 MB2					
Pollutant	**Unit**	**3/11/2022**	**14/02/2023**	**16/05/2023**	**17/08/2023**
Alkalinity (as CaCO3)	mg/L	240	300	290	330
Nitrogen (ammonia)	mg/L	0.056	<0.005	0.03	0.15
Chloride	mg/L	790	910	1000	1100
Calcium	mg/L	500	560	540	490
Magnesium	mg/L	780	710	730	740
Potassium	mg/L	2	2	2	2
Sodium	mg/L	230	350	330	290
pH	pH	6.38	6.54	6.46	6.67
Sulphate	mg/L	3400	4500	3400	3600
Total Dissolved Solids	mg/L	6000	6400	7400	7300
Standing water level	m	1.15	1.84	1.65	1.73
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.032	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.05	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.002	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			<0.001	
Manganese	mg/L			0.05	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.17	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total petroleum hydrocarbons	mg/L			<0.01	
Total Phenolics	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.068	

Table 9.3 MB3					
Pollutant	**Unit**	**3/11/2022**	**13/02/2023**	**16/05/2023**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	250	240	230	250
Nitrogen (ammonia)	mg/L	<0.005	<0.005	<0.005	0.19
Chloride	mg/L	400	460	460	510
Calcium	mg/L	130	120	130	120
Magnesium	mg/L	99	96	100	100
Potassium	mg/L	2	2	2	2
Sodium	mg/L	62	83	75	65
pH	pH	6.49	6.75	6.69	6.68
Sulphate	mg/L	25	34	46	42
Total Dissolved Solids	mg/L	1400	1400	1100	1100
Standing water level	m	0	0	0	0.2
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.032	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.1	
Lead	mg/L			<0.001	
Manganese	mg/L			<0.005	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.74	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			1	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.016	

Table 9.4 MB4					
Pollutant	**Unit**	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Alkalinity (as CaCO3)	mg/L	18	39	8	22
Nitrogen (ammonia)	mg/L	0.11	0.081	0.07	0.43
Chloride	mg/L	450	610	560	470
Calcium	mg/L	11	11	11	11
Magnesium	mg/L	120	130	140	120
Potassium	mg/L	4	3	3	2
Sodium	mg/L	190	300	250	230
pH	pH	4.9	5.82	5.12	5.5
Sulphate	mg/L	290	250	440	280
Total Dissolved Solids	mg/L	1400	1500	1600	1200
Standing water level	m	9.29	9.1	9.34	9.28
Aluminium	mg/L			1.6	
Arsenic	mg/L			0.003	
Barium	mg/L			0.047	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.1	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.07	
Copper	mg/L			0.500	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			0.0130	
Manganese	mg/L			1.8	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.16	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			19	

Table 9.5 MB6					
Pollutant	**Unit**	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Alkalinity (as CaCO3)	mg/L				
Nitrogen (ammonia)	mg/L				
Chloride	mg/L				
Calcium	mg/L				
Magnesium	mg/L				
Potassium	mg/L				
Sodium	mg/L				
pH	pH				
Sulphate	mg/L				
Total Dissolved Solids	mg/L				
Standing water level	m				
Aluminium	mg/L				
Arsenic	mg/L				
Barium	mg/L				

Table 9.6 MB7					
Pollutant	**Unit**	**15/11/2023**	**14/02/2023**	**17/05/2023**	**13/08/23**
Alkalinity (as CaCO3)	mg/L	660	670	420	630
Nitrogen (ammonia)	mg/L	0.007	0.081	<0.005	0.01
Chloride	mg/L	2200	2500	2500	2400
Calcium	mg/L	290	270	270	240
Magnesium	mg/L	530	490	490	430
Potassium	mg/L	9.9	9.6	11	8.6
Sodium	mg/L	470	500	560	390
pH	pH	7.06	6.86	6.9	7
Sulphate	mg/L	210	190	200	200
Total Dissolved Solids	mg/L	4800	5300	6000	5200
Standing water level	m	0.88	1.54	2	2.08
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.1000	

Benzene	mg/L					Benzene	mg/L			<0.001	
Cadmium	mg/L					Cadmium	mg/L			0.001	
Chromium (hexavalent)	mg/L					Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L					Chromium (total)	mg/L			0.002	
Cobalt	mg/L	Dry	Dry	Dry	Dry	Cobalt	mg/L			<0.001	
Copper	mg/L					Copper	mg/L			0.005	
Ethyl benzene	mg/L					Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L					Fluoride	mg/L			0.3	
Lead	mg/L					Lead	mg/L			<0.001	
Manganese	mg/L					Manganese	mg/L			0.022	
Mercury	mg/L					Mercury	mg/L			<0.00005	
Nitrate	mg/L					Nitrate	mg/L			0.39	
Nitrite	mg/L					Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L					Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L					Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L					Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L					Toluene	mg/L			<0.001	
Total organic carbon	mg/L					Total organic carbon	mg/L			5	
Total Phenolics	mg/L					Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L					Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L					Xylene	mg/L			<0.001	
Zinc	mg/L					Zinc	mg/L			0.13	

Table 9.7 MB10

Pollutant	Unit	03/11/2022	13/02/2023	16/05/2023	16/08/2023
Alkalinity (as CaCO3)	mg/L	290	300	280	290
Nitrogen (ammonia)	mg/L	0.01	<0.005	<0.005	0.43
Chloride	mg/L	1100	1100	1200	1200
Calcium	mg/L	540	550	540	480
Magnesium	mg/L	740	710	770	810
Potassium	mg/L	1	2	1	1
Sodium	mg/L	430	450	530	400
pH	pH	6.87	7.02	6.57	6.71
Sulphate	mg/L	3400	3600	3900	4200
Total Dissolved Solids	mg/L	7800	7100	7300	8000
Standing water level	m	0.51	2	1.8	1.9
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0130	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.006	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.20	
Lead	mg/L			<0.001	
Manganese	mg/L			0.04	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			<0.005	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.043	

Table 9.8 ED3B

Pollutant	Unit	16/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	540	540	480	550
Nitrogen (ammonia)	mg/L	0.12	0.084	0.044	0.06
Chloride	mg/L	1600	1700	1700	1800
Calcium	mg/L	93	93	91	88
Magnesium	mg/L	440	390	390	410
Potassium	mg/L	0.5	0.7	1	0.5
Sodium	mg/L	810	1200	1100	720
pH	pH	6.1	6.46	6.68	7.56
Sulphate	mg/L	1700	1500	1500	1700
Total Dissolved Solids	mg/L	5600	5800	5400	5000
Standing water level	m	2.43	2.32	2.8	2.68
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0390	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.002	
Copper	mg/L			0.0080	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.4	
Lead	mg/L			<0.001	
Manganese	mg/L			0.54	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.11	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			6	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.12	

Table 9.9 WM1

Pollutant	Unit	16/11/2022	15/02/2023	22/05/2023	17/08/2023
Alkalinity (as CaCO3)	mg/L	80	170	180	220
Nitrogen (ammonia)	mg/L	0.045	0.08	0.012	0.17
Chloride	mg/L	31	62	74	88
Calcium	mg/L	97	200	230	240
Magnesium	mg/L	20	50	65	74
Potassium	mg/L	4	5.8	6.5	6.8
Sodium	mg/L	16	32	35	42
pH	pH	5.7	6.74	6.25	6.99
Sulphate	mg/L	260	600	710	920
Total Dissolved Solids	mg/L	460	1100	1300	1500
Standing water level	m	23.53	23.33	22.92	18.78
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0340	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.035	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.035	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.021	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.3	
Lead	mg/L			0.0060	
Manganese	mg/L			0.54	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.56	
Nitrite	mg/L			0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	

Table 9.10 WM5

Pollutant	Unit	16/11/2022	16/11/2022	17/05/2023	15/08/23
Alkalinity (as CaCO3)	mg/L	870	860	570	620
Nitrogen (ammonia)	mg/L	0.2	0.34	0.21	0.2
Chloride	mg/L	2400	2700	1800	1900
Calcium	mg/L	160	130	73	84
Magnesium	mg/L	490	410	250	280
Potassium	mg/L	3	3	3	2
Sodium	mg/L	850	1200	740	560
pH	pH	7.2	6.76	6.8	6.91
Sulphate	mg/L	240	180	160	180
Total Dissolved Solids	mg/L	6200	5700	4200	4100
Standing water level	m	0.1	0.72	0.55	0.56
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.010	
Barium	mg/L			0.5400	
Benzene	mg/L			<0.001	
Cadmium	mg/L			<0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			4.3	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			<0.005	
Nitrite	mg/L			0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	

Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			3	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			3.1	

Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			7	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.013	

Table 9.11 WM6

Pollutant	Unit	14/11/2022	01/01/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	45	76	75	80
Nitrogen (ammonia)	mg/L	0.042	0.076	0.076	0.094
Chloride	mg/L	4100	4300	4500	5000
Calcium	mg/L	140	99	110	120
Magnesium	mg/L	540	400	440	510
Potassium	mg/L	3	2	3	2
Sodium	mg/L	1600	2200	2000	1700
pH	pH	5.06	5.67	5.51	5.56
Sulphate	mg/L	1200	330	380	530
Total Dissolved Solids	mg/L	8900	7800	9500	10000
Standing water level	m	2.54	2.79	3.02	2.58
Aluminium	mg/L			0.03	
Arsenic	mg/L			0.002	
Barium	mg/L			0.0480	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0025	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.043	
Copper	mg/L			0.019	
Ethyl benzene	mg/L			0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			0.0040	
Manganese	mg/L			0.15	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			27	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			4	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.240	

Table 9.12 MW8S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	5	6	22	70
Nitrogen (ammonia)	mg/L	0.1	0.01	0.19	0.074
Chloride	mg/L	200	210	570	540
Calcium	mg/L	170	150	180	160
Magnesium	mg/L	380	370	380	480
Potassium	mg/L	2	2	50	15
Sodium	mg/L	220	320	430	420
pH	pH	4.57	4.89	5.58	5.9
Sulphate	mg/L	2800	2800	2600	3700
Total Dissolved Solids	mg/L	4000	4100	4400	5300
Standing water level	m	3.42	3.29	3.56	3.31
Aluminium	mg/L			1.6	
Arsenic	mg/L			0.049	
Barium	mg/L			0.0190	
Benzene	mg/L			<0.001	
Cadmium	mg/L			1.5	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.003	
Cobalt	mg/L			0.62	
Copper	mg/L			1.5	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			1.3	
Lead	mg/L			0.18	
Manganese	mg/L			13	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			84.00	
Nitrite	mg/L			0.008	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			33	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			180	

Table 9.13 MW8D

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/23
Alkalinity (as CaCO3)	mg/L	<5	<5	<5	28
Nitrogen (ammonia)	mg/L	1.3	6.3	4.5	1.5
Chloride	mg/L	400	400	570	670
Calcium	mg/L	340	250	270	270
Magnesium	mg/L	740	430	530	700
Potassium	mg/L	6.5	9.9	11	5.5
Sodium	mg/L	390	380	370	340
pH	pH	4.69	4.41	4.72	5.39
Sulphate	mg/L	4400	3300	4700	4900
Total Dissolved Solids	mg/L	6200	4200	6100	7200
Standing water level	m	3.48	3.54	12.06	2.9
Aluminium	mg/L			19	
Arsenic	mg/L			0.027	
Barium	mg/L			0.03	
Benzene	mg/L			<0.001	
Cadmium	mg/L			1.700	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.001	
Cobalt	mg/L			0.93	
Copper	mg/L			11	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			0.69000	
Manganese	mg/L			18	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.19	
Nitrite	mg/L			0.028	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			8	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			250	

Table 9.14 MW9S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	Unable to access	Unable to access	Unable to access	Unable to access
Nitrogen (ammonia)	mg/L				
Chloride	mg/L				
Calcium	mg/L				
Magnesium	mg/L				
Potassium	mg/L				
Sodium	mg/L				
pH	pH				
Sulphate	mg/L				
Total Dissolved Solids	mg/L				
Standing water level	m				
Aluminium	mg/L				
Arsenic	mg/L				
Barium	mg/L				
Benzene	mg/L				
Cadmium	mg/L				
Chromium (hexavalent)	mg/L				
Chromium (total)	mg/L				
Cobalt	mg/L				
Copper	mg/L				
Ethyl benzene	mg/L				
Fluoride	mg/L				
Lead	mg/L				
Manganese	mg/L				
Mercury	mg/L				
Nitrate	mg/L				
Nitrite	mg/L				
Organochlorine pesticides	mg/L				
Organophosphate pesticides	mg/L				
Polycyclic aromatic hydrocarbons	mg/L				
Toluene	mg/L				
Total organic carbon	mg/L				
Total Phenolics	mg/L				
Total petroleum hydrocarbons	mg/L				
Xylene	mg/L				
Zinc	mg/L				

Table 9.15 MW10S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L			<5	<5
Nitrogen (ammonia)	mg/L			2.1	0.19
Chloride	mg/L			380	640
Calcium	mg/L			320	230
Magnesium	mg/L			310	300

Table 9.16 MB28

Pollutant	Unit	31/10/2022	13/2/2023	16/5/2023	16/8/2023
Alkalinity (as CaCO3)	mg/L	630	670	560	520
Nitrogen (ammonia)	mg/L	<0.005	0.03	0.01	0.18
Chloride	mg/L	800	860	1900	2100
Calcium	mg/L	100	120	170	180
Magnesium	mg/L	240	290	430	470

Potassium	mg/L			24	18
Sodium	mg/L			340	350
pH	pH			4.51	4.56
Sulphate	mg/L			2200	2000
Total Dissolved Solids	mg/L			4700	4300
Standing water level	m			9.15	9.02
Aluminium	mg/L			17	
Arsenic	mg/L			0.0150	
Barium	mg/L			0.031	
Benzene	mg/L			<0.001	
Cadmium	mg/L			2.1	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.002	
Cobalt	mg/L	Dry	Dry	1	
Copper	mg/L			7.3	
Ethyl benzene	mg/L			0.001	
Fluoride	mg/L			0.3	
Lead	mg/L			0.69	
Manganese	mg/L			35	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			160	
Nitrite	mg/L			0.022	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			14	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			240	

Potassium	mg/L	1	0.9	2	1
Sodium	mg/L	500	580	750	500
pH	pH	7.09	5.85	7.08	7.77
Sulphate	mg/L	700	790	920	1000
Total Dissolved Solids	mg/L	3200	3400	5200	5400
Standing water level	m	5.44	6.11	6.10	6.63
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.001	
Barium	mg/L			0.038	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.016	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.003	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.007	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.6	
Lead	mg/L			<0.001	
Manganese	mg/L			0.01	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			2.8	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			4	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.82	

Table 9.17 MB33

Pollutant	Unit	16/11/2022	14/02/2023	18/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	360	190	120	170
Nitrogen (ammonia)	mg/L	0.89	0.21	0.045	0.065
Chloride	mg/L	140	150	160	160
Calcium	mg/L	120	170	160	120
Magnesium	mg/L	13	88	87	75
Potassium	mg/L	100	16	21	25
Sodium	mg/L	200	92	88	80
pH	pH	11.31	6.53	6.59	8.15
Sulphate	mg/L	450	630	620	660
Total Dissolved Solids	mg/L	1300	1400	1100	1200
Standing water level	m	41.05	42.53	42.80	43.07
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.003	
Barium	mg/L			0.0570	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0067	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.003	
Copper	mg/L			0.015	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			0.4	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.094	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.97	

Table 9.18 SP2-MW1

Pollutant	Unit	16/11/2022	15/02/2023	17/05/2023	16/08/2023
Chloride	mg/L	790	910	920	960
Conductivity	µS/cm	-135.6	-63.1	2886	3595
pH	pH	6.0	7.01	6.75	6.89
Sulphate	mg/L	130	120	280	500
Total Dissolved Solids	mg/L	2100	2400	2300	2000
Standing Water Level	m	1.13	1.40	1.42	1.90
Cadmium	mg/L	0.0025	0.0005	0.0011	0.0018
Copper	mg/L	0.11	0.001	0.002	<0.001
Lead	mg/L	0.69	<0.001	<0.001	<0.001
Zinc	mg/L	0.920	0.052	0.390	0.00015

Table 9.19 MW-FRC1

Pollutant	Unit	3/11/2022	14/02/2023	16/05/2023	17/08/2023
Chloride	mg/L	1100	550	1200	1300
Conductivity	µS/cm	4430	4500	4291	4261
pH	pH	6.70	6.89	6.93	7.32
Sulphate	mg/L	130	2400	140	160
Total Dissolved Solids	mg/L	3300	4600	2600	2700
Standing Water Level	m	0.61	1.11	1.10	1.20
Cadmium	mg/L	0.0004	0.0003	0.0002	0.0002
Copper	mg/L	0.016	0.001	0.002	0.002
Lead	mg/L	0.009	<0.001	<0.001	<0.001
Zinc	mg/L	0.16	0.034	0.026	0.021

Table 9.20 MB10S

Pollutant	Unit	3/11/2022	13/02/2023	16/05/2023	16/08/2023
Chloride	mg/L	480	1100	570	620
Conductivity	µS/cm	5243	5451	5402	5227
pH	pH	6.74	6.83	6.89	7.14
Sulphate	mg/L	2300	3600	2600	2900
Total Dissolved Solids	mg/L	5300	7100	5100	5100
Standing Water Level	m	0.31	0.32	0.55	0.57
Cadmium	mg/L	0.011	0.0013	0.0014	0.0013
Copper	mg/L	0.43	0.009	0.004	<0.001
Lead	mg/L	0.45	<0.001	<0.001	<0.001
Zinc	mg/L	5.1	0.31	0.32	0.29

Table 9.21 MB34

Pollutant	Unit	13/11/2022	14/02/2023	18/05/2023	17/08/2023
Alkalinity (as CaCO3)	mg/L	290	370	330	290
Nitrogen (ammonia)	mg/L	0.046	0.11	0.18	0.19
Chloride	mg/L	270	300	280	310
Calcium	mg/L	88	81	79	74
Magnesium	mg/L	120	120	120	120
Potassium	mg/L	4	5	5	4
Sodium	mg/L	65	92	78	69
pH	pH	5.56	6.53	6.46	7.72
Sulphate	mg/L	230	290	260	280
Total Dissolved Solids	mg/L	1100	1300	1200	1100
Standing water level	m	52.94	48.89	51.73	51.09
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.002	
Barium	mg/L			0.0290	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0052	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.006	
Copper	mg/L			0.031	

Table 9.22 MB35

Pollutant	Unit	16/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	260	600	15	350
Nitrogen (ammonia)	mg/L	14	0.68	0.37	3.1
Chloride	mg/L	170	120	96	130
Calcium	mg/L	460	260	270	260
Magnesium	mg/L	530	37	120	72
Potassium	mg/L	18	9.7	13	12
Sodium	mg/L	210	100	96	78
pH	pH	5.50	6.87	6.58	6.29
Sulphate	mg/L	9200	380	820	1000
Total Dissolved Solids	mg/L	11000	1400	1400	1900
Standing water level	m	36.95	39.29	40.81	41.74
Aluminium	mg/L			0.03	
Arsenic	mg/L			0.008	
Barium	mg/L			0.0370	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0004	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.078	
Copper	mg/L			0.002	

Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			1.1	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.093	
Nitrite	mg/L			0.016	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			6	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			2.2	

Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.8	
Lead	mg/L			<0.001	
Manganese	mg/L			7.3	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.31	
Nitrite	mg/L			0.13	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			22	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			31	

Table 10.1 P38				
P38A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	35.12	Inaccesible	Inaccesible	31.24
Depth to Water (Reduced Level)	780.19	815.31	815.31	784.07
P38B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	59.81	Inaccesible	Inaccesible	55.21
Depth to Water (Reduced Level)	755.50	815.31	815.31	760.10

Table 10.2 P200				
P200A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	21.00	22.70	22.97	22.80
Depth to Water (Reduced Level)	794.31	792.61	792.34	792.51
P200B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	21.30	26.30	25.40	25.38
Depth to Water (Reduced Level)	794.01	789.01	789.91	789.93

Table 10.3 P58				
P58A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	57.00	56.31	48.50	47.20
Depth to Water (Reduced Level)	758.31	759.00	766.81	768.11
P58B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	42.00	44.90	43.89	42.90
Depth to Water (Reduced Level)	773.31	770.41	771.42	772.41

Table 10.4 P59				
P59A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	16.39	16.50	14.20	14.02
Depth to Water (Reduced Level)	798.92	798.81	801.11	801.29
P59B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	17.07	17.45	16.80	16.56
Depth to Water (Reduced Level)	798.24	797.86	798.51	798.75

Table 10.5 P100				
P100A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	39.60	40.80	38.00	38.47
Depth to Water (Reduced Level)	775.71	774.51	777.31	776.84
P100B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	52.69	54.74	53.10	52.98
Depth to Water (Reduced Level)	762.62	760.57	762.21	762.33

Table 11.1 Site 110 - Upstream					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	0.025	0.015	0.23	0.16
Biochemical Oxygen Demand	mg/L	<5	<5	<5	<5
Conductivity	µS/cm	404.8	1357	1520	2440
pH	pH	8	7.41	6.5	8.23
Flow	m3/s	Low	Low	Low	No Flow
Sulphate	mg/L	30	190	260	360
Total Suspended Solids	mg/L	<5	270	<5	<5
Total Dissolved Solids	mg/L	290	960	860	1500
Total Kjeldahl Nitrogen	mg/L	0.9	0.6	0.6	0.9
Total Organic Carbon	mg/L	14	10	11	14
Oil & Grease	mg/L	<5	<2	16	<5
Phosphorous	mg/L	<0.05	0.3	<0.00005	0.06
Copper	mg/L	0.009	0.036	0.005	0.004
Iron	mg/L	0.5	6.2	0.15	0.26
Lead	mg/L	0.003	0.13	<0.001	0.002
Zinc	mg/L	0.064	0.56	0.56	0.04

Table 11.2 Site 150 – Mulwaree River					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	0.014	0.019	0.17	0.16
Biochemical Oxygen Demand	mg/L	<5	<5	9	<5
Conductivity	µS/cm	320.5	1262	979	1789
pH	pH	7.8	8.31	6.79	8.1
Flow	m3/s	Moderate	Moderate	Moderate	Moderate
Sulphate	mg/L	17	90	140	240
Total Suspended Solids	mg/L	6	6	36	140
Total Dissolved Solids	mg/L	210	860	570	1200
Total Kjeldahl Nitrogen	mg/L	1	0.6	0.6	0.4
Total Organic Carbon	mg/L	15	10	12	7
Oil & Grease	mg/L	<5	<5	<5	<5
Phosphorous	mg/L	0.5	<0.01	<0.00005	<0.05
Copper	mg/L	0.006	0.0006	0.005	0.002
Iron	mg/L	1.5	0.25	0.37	0.15
Lead	mg/L	0.001	0.001	0.002	<0.01
Zinc	mg/L	0.043	0.015	0.21	0.078

Table 11.3 First Flush Stormwater Outlet					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	<0.005	<0.005	0.11	0.039
Biochemical Oxygen Demand	mg/L	<5	6	11	<5
Conductivity	µS/cm	141.5	117.1	138.1	119.5
pH	pH	7.4	7.84	6.87	8.73
Flow	m3/s	No Flow	No Flow	No Flow	No Flow
Sulphate	mg/L	4	7	18	15
Total Suspended Solids	mg/L	67	26	<5	<5
Total Dissolved Solids	mg/L	110	72	67	71
Total Kjeldahl Nitrogen	mg/L	0.4	0.4	1	0.4
Total Organic Carbon	mg/L	5	8	67	7
Oil & Grease	mg/L	<5	<5	<5	<5
Phosphorous	mg/L	0.05	0.05	0.0001	<0.05
Copper	mg/L	0.007	0.004	0.004	0.004
Iron	mg/L	1.7	0.4	0.39	0.1
Lead	mg/L	0.011	0.001	0.002	<0.01
Zinc	mg/L	0.025	0.008	0.045	0.29

	Table 12.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth											
Month	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**
DG18	1.6	54.6	3.9	2	3.8	2.3	18	1.2	0.6	0.5	0.8	0.4