

Table 1.1 GMBH1				
Date	16/11/2020	03/02/2021	01/07/2021	27/08/2021
Methane	0	0	0	0
Table 1.2 GMBH2				
Date	16/11/2020	03/02/2021	01/07/2021	27/08/2021
Methane	0	0	0	0
Table 1.3 GMBH4				
Date	16/11/2020	03/02/2021	01/07/2021	27/08/2021
Methane	0	0	0	0

Table 2.1 Landfill Gas Booster (Annual)				
Date		30/08/2021		
Carbon Dioxide	%	36.3		
Dry Gas Density	mg/m ³	1,530,000		
Moisture Content	%	0.47		
Oxygen	%	2.5		
Temperature	°C	3		
Volatile Organic Compounds	mg/m ³	22,000		
Volumetric Flow rate	m ³ /s	0.75		
Table 2.2 Landfill Gas Booster (Monthly)				
Date (Monthly)	Unit	30/06/2021	19/07/2021	12/08/2021
Volumetric flowrate	m ³ /s	1.03	1.04	1.09
Hydrogen Sulfide	ppm	1145	918	726

Table 3.1 04/12/2021					
Transect	Time	No. of	Min Methane (%)	Max Methane (%)	Average
1	1:30:00 pm	0			
2		3	0.0050	0.0850	0.0327
3		11	0.0010	0.0250	0.0046
4		12	0.0011	0.0150	0.0046
5		12	0.0010	0.0700	0.0103
6		12	0.0015	0.0230	0.0055
7		13	0.0012	0.0060	0.0033
8		13	0.0025	0.0180	0.0060
9		11	0.0015	0.0110	0.0042
10		10	0.0010	0.0120	0.0043
11		8	0.0010	0.0300	0.0089
12		8	0.0010	0.1000	0.0165
13		9	0.0025	0.0400	0.0138
14		10	0.0010	0.0037	0.0026
15		9	0.0010	0.0300	0.0093
16		7	0.0040	0.0360	0.0112
Total Measurements		148	0.0010	0.1000	0.0092

Table 3.2 03/02/2021					
Transect	Time	No. of	Min Methane (%)	Max Methane (%)	Average
1	1:30:00 pm	0			
2		0			
3		11	0.0004	0.0180	0.0042
4		12	0.0003	0.0250	0.0088
5		12	0.0022	0.0295	0.0081
6		12	0.0010	0.0220	0.0071
7		13	0.0007	0.0247	0.0049
8		13	0.0006	0.0750	0.0165
9		13	0.0002	0.0750	0.0153
10		2	0.0025	0.0050	0.0038
11		0			
12		0			
13		11	0.0010	0.0090	0.0050
14		11	0.0004	0.0360	0.0077
15		9	0.0015	0.0070	0.0037
16		6	0.0007	0.0035	0.0022
Total Measurements		125	0.0002	0.0750	0.0073

Table 3.3 09/04/2021					
Transect	Time	No. of	Min Methane (%)	Max Methane (%)	Average
1	1:30:00 pm	3	0.0005	0.0110	0.0043
2		4	0.0004	0.0070	0.0052
3		6	0.0018	0.0095	0.0048
4		10	0.0017	0.0520	0.0085
5		10	0.0006	0.0300	0.0082
6		11	0.0009	0.0100	0.0038
7		11	0.0007	0.0220	0.0054
8		11	0.0007	0.0170	0.0066
9		5	0.0015	0.0500	0.0158
10		4	0.0006	0.2000	0.0512
11		6	0.0008	0.0300	0.0083
12		12	0.0010	0.0400	0.0100
13		12	0.0013	0.0370	0.0095
14		11	0.0010	0.0200	0.0051
15		9	0.0004	0.0100	0.0026
16		7	0.0020	0.0130	0.0076
Total Measurements		132	0.0004	0.2000	0.0098

Table 3.4 21/07/2021					
Transect	Time	No. of	Min Methane (ppm)	Max Methane ppm)	Average
1	1:30:00 pm	8	4	33	17
2		12	5	230	56
3		12	9	120	29
4		12	9	250	67
5		12	4	395	55
6		12	3	408	55
7		12	7	128	35
8		12	10	122	35
9		15	4	61	23
10		15	4	106	39
11		15	4	180	29
12		15	9	123	39
13		14	3	145	34
14		13	5	180	45
15		11	3	255	72
16		10	13	235	82
Total Measurements		200	3	408	45

Table 3.5 01/09/2021					
Transect	Time	No. of	Min Methane (ppm)	Max Methane ppm)	Average
1	9:00:00 am				
2		2	55	145	100
3		8	3	131	28
4		11	2	300	81

Table 3.6 15/09/2021					
Transect	Time	No. of	Min Methane (ppm)	Max Methane ppm)	Average
16	9:45:00 am	3	8	180	67
15		5	6	310	87
14		6	4	280	62
13		7	3	25	13

5		11	2	120	46
6		10	4	410	68
7		12	3	63	31
8		15	7	190	36
9		16	2	78	31
10		15	3	380	71
11		15	6	201	45
12		13	3	380	69
13		13	3	200	59
14		8	20	160	73
15		4	9	380	120
16		2	22	350	186
Total Measurements		155	2	410	70

12		13	3	310	53
11		19	4	300	37
10		19	3	285	32
9		19	7	380	51
8		17	5	125	31
7		13	8	65	28
6		12	4	210	43
5		12	3	185	38
4		14	3	188	54
3		12	7	210	57
2		7	30	185	91
1		4	31	68	43
Total Measurements		182	3	380	49

Table 3.7 21/07/2021					
Transect	Time	No. of	Min H2S (ppm)	Max H2S (ppm)	Average
1	1:30:00 pm	8	0.0	0.0	0.0
2		12	0.0	0.0	0.0
3		12	0.0	0.0	0.0
4		12	0.0	0.0	0.0
5		12	0.0	0.0	0.0
6		12	0.0	0.0	0.0
7		12	0.0	0.0	0.0
8		12	0.0	0.0	0.0
9		15	0.0	0.0	0.0
10		15	0.0	0.0	0.0
11		15	0.0	0.0	0.0
12		15	0.0	0.0	0.0
13		14	0.0	0.0	0.0
14		13	0.0	0.0	0.0
15		11	0.0	1.1	0.1
16		10	0.0	0.0	0.0
Total Measurements		200	0.0	1.1	0.006

Table 3.8 01/09/2021					
Transect	Time	No. of	Min H2S (ppm)	Max H2S (ppm)	Average
1	9:00:00 am	0	0.0	0.0	
2		2	0.0	0.0	0.0
3		8	0.0	0.0	0.0
4		11	0.0	0.6	0.1
5		11	0.0	0.0	0.0
6		10	0.0	0.0	0.0
7		12	0.0	0.0	0.0
8		15	0.0	0.0	0.0
9		16	0.0	0.0	0.0
10		15	0.0	0.0	0.0
11		15	0.0	0.4	0.0
12		13	0.0	1.0	0.1
13		13	0.0	0.0	0.0
14		8	0.0	0.0	0.0
15		4	0.0	0.0	0.0
16		2	0.0	0.0	0.0
Total Measurements		155	0.0	1.0	0.011

Table 3.9 15/09/2021					
Transect	Time	No. of	Min H2S (ppm)	Max H2S (ppm)	Average
16	9:45:00 am	3	0	0	0
15		5	0	0	0
14		6	0	0	0
13		7	0	0	0
12		13	0	0	0
11		19	0	1	0
10		19	0	0	0
9		19	0	0	0
8		17	0	0	0
7		13	0	0	0
6		12	0	0	0

5		12	0	0	0							
4		14	0	0	0							
3		12	0	0	0							
2		7	0	0	0							
1		4	0	0	0							
Total Measurements		182	0.0	1.2	0.004							

Table 4.1 Landfill Gas Engine #2 Exhaust		
Carbon Dioxide	%	10.8
Carbon Monoxide	mg/m ³	1,200
Dry Gas Density	mg/m ³	1,350,000
Moisture Content	%	11
Molecular Weight Of Stack Gases	g/gmol	30.2
Nitrogen Oxides	mg/m ³	440
Oxygen	%	8.6
Sulfuric Acid Mist & Sulfur Trioxides SO ₃	mg/m ³	4.5
Sulphur Dioxide	mg/m ³	570
Temperature	°C	453
Velocity	m/sec	45
Volatile Organic Compounds	mg/m ³	140
Volumetric Flowrate	m ³ /s	1.5
Hydrogen Sulphide	mg/m ³	<0.7
Table 4.2 Landfill Gas Flare #1		
Designed Residence time	seconds	0.3<
Designed Temperature	°C	1,000
Hydrogen Sulphide	mg/m ³	Not Measured

	Table 5.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth											
Month	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
DG 22	2	1.4	1.6	2	2	1.7	1.5	0.2	2.2	1.2	1	0.5
DG 34	1.2	1.1	1.7	3.4	5.7	2.3	1.4	0.3	1.8	0.9	0.6	1.3
DG 28	2.3	2.6	3.7	3.4	2.6	2.5	1.6	0.6	1.1	0.4	0.5	0.4

Table 6.11 ED1 Coffe Dam													
Pollutant	Unit	24/09/2020	29/10/2020	26/11/2020	24/12/2021	28/01/2021	25/02/2021	25/03/2021	29/04/2021	27/05/2021	24/06/2021	29/07/2021	26/08/2021
Nitrogen (ammonia)	mg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Biochemical Oxygen Demand	mg/L	6	6	8	18	<2	16	<2	<5	7	<4	4	11
Conductivity	µS/cm	28300	27900	26600	34700	29800	29800	19800	26200	19800	23000	22600	24500
pH	pH	8.75	8.60	8.8	8.9	8.74	8.66	8.73	8.71	8.69	8.75	8.85	8.86
Total Dissolved Solids	mg/L	22200	21000	21000	27800	23600	22600	16700	21000	19200	17000	16900	19200
Total Suspended Solids	mg/L	14.2	15	<0.5	34.6	10	31	5.4	17.2	15.4	4	18.3	17.6
Chloride	mg/L	4710	4610	4530	6400	4770	4220	3500	4060	4330	3890	3490	4030
Nitrate	mg/L	1330	1160	1080	1520	1300	1210	814	1130	968	947	876	851
Phosphorous	mg/L	5.14	4.78	4.77	5.47	6.1	6.53	4.33	6.5	6.45	5.93	5.14	5.2
Chemical Oxygen Demand	mg/L	2930	3000	3100	4010	3220	3140	2500	2800	2740	2420	2190	2860

Table 6.1 Site 115 – Allianoyonyiga Creek

Pollutant	Unit	10/11/2020	02/02/2021	12/03/2021	15/07/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2
Conductivity	µS/cm	930	3060	2310	2320
pH	pH	8.1	8.04	7.64	8.13
Total Dissolved Solids	mg/L	854	2410	1590	1780
Total Organic Carbon	mg/L	18	18	19	13
Total Potassium	mg/L	21.5	5.3	5.6	1.2
Dissolved Oxygen	mg/L	8.6	8.5	9.5	9.2
Oxidation-Reduction Potential	mV	281	320	226	199

Table 6.2 Spring 2

Pollutant	Unit	13/11/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	1.2	0.9	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	5	5	11	3
Conductivity	µS/cm	405	596	306	2850
pH	pH	6.78	6.06	7.43	7.41
Total Dissolved Solids	mg/L	254	399	250	2300
Total Organic Carbon	mg/L	26	14	35	23
Total Potassium	mg/L	5.9	11.4	3.8	33
Dissolved Oxygen	mg/L	8.8	9.1	8.4	9.6
Oxidation-Reduction Potential	mV	256	278	424	217

Table 6.3 Site 105 – Crisps Creek

Pollutant	Unit	11/11/2020	02/02/2021	25/03/2021	30/06/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	7	<2	2	<2
Conductivity	µS/cm	1690	462	513	2090
pH	pH	7.96	7.21	7.06	7.67
Total Dissolved Solids	mg/L	1040	326	338	1280
Total Organic Carbon	mg/L	22	14	31	21
Total Potassium	mg/L	0.3	3	23.8	0.8
Dissolved Oxygen	mg/L	9	9.2	7.5	9.3
Oxidation-Reduction Potential	mV	272	289	237	131

Table 6.4 WM200 Raw Water Dam

Pollutant	Unit	15/10/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.2	0.2	<0.1
Biochemical Oxygen Demand	mg/L	<3	<2	<2	<2
Conductivity	µS/cm	997	1030	889	932
pH	pH	8.14	7.25	7.95	6.34
Total Dissolved Solids	mg/L	617	542	663	591
Total Organic Carbon	mg/L	6	8	7	7
Total Potassium	mg/L	2.4	2.8	3	3.2
Dissolved Oxygen	mg/L	8.6	8.1	9.6	10.4
Oxidation-Reduction Potential	mV	234	323	311	301

Table 6.5 WM201 – Entrance Road Culvert

Pollutant	Unit	29/10/2020	02/02/2021	23/03/2021	24/08/2021
Nitrogen (ammonia)	mg/L	0.4	0.2	<0.1	<0.2
Biochemical Oxygen Demand	mg/L	<2	<2	3	2
Conductivity	µS/cm	255	519	142	288
pH	pH	6.16	5.53	6.4	8.56
Total Dissolved Solids	mg/L	168	348	96	197
Total Organic Carbon	mg/L	4	8	16	6
Total Potassium	mg/L	20.1	7.3	3.2	20.3
Dissolved Oxygen	mg/L	8.3	8.2	7.6	8.6

Oxidation-Reduction Potential	mV	279	331	255	163
Table 6.6 ED3SS – Lagoon 5					
Pollutant	Unit	15/10/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	434	363	392	366
Biochemical Oxygen Demand	mg/L	1420	1670	1980	1820
Conductivity	µS/cm	25200	25300	23000	22900
pH	pH	8.51	8.38	8.61	8.33
Total Dissolved Solids	mg/L	19900	20000	18200	18100
Total Organic Carbon	mg/L	4240	4260	3560	3720
Total Potassium	mg/L	3840	2210	2150	2070
Dissolved Oxygen	mg/L	<0.5	<0.6	<0.5	<0.5
Oxidation-Reduction Potential	mV	199	288	142	248
Table 6.7 WM203 – Evaporation Dam 3 North					
Pollutant	Unit	15/10/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	67.1	21.2	140	115
Biochemical Oxygen Demand	mg/L	126	168	673	202
Conductivity	µS/cm	43300	45600	19200	38300
pH	pH	8.68	8.57	8.52	8.6
Total Dissolved Solids	mg/L	40400	38200	15300	36000
Total Organic Carbon	mg/L	3520	4850	1400	3590
Total Potassium	mg/L	2080	4060	1660	3540
Dissolved Oxygen	mg/L	1.8	0.7	<0.5	<0.5
Oxidation-Reduction Potential	mV	17	18	29	28
Table 6.8 Pond 5					
Pollutant	Unit	12/11/2020	02/02/2021	23/03/2021	24/06/2021
Nitrogen (ammonia)	mg/L	2.6	7.3	3.3	4.5
Biochemical Oxygen Demand	mg/L	4	3	3	44
Conductivity	µS/cm	1560	1810	3410	1230
pH	pH	5.58	3.32	3	5.19
Total Dissolved Solids	mg/L	1350	1510	3020	1070
Total Organic Carbon	mg/L	13	4	3	20
Total Potassium	mg/L	20	2.5	1.4	13.9
Dissolved Oxygen	mg/L	8.3	8.6	8.6	7.2
Oxidation-Reduction Potential	mV	240	526	498	287
Table 6.9 WM202 – ED3S					
Pollutant	Unit	15/10/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	69.2	60.5	43.6	55.5
Biochemical Oxygen Demand	mg/L	10	3	6	<2
Conductivity	µS/cm	7120	6600	5560	5180
pH	pH	3.76	3.72	3.51	3.51
Total Dissolved Solids	mg/L	7830	5450	5790	5670
Total Organic Carbon	mg/L	18	5	7	4
Total Potassium	mg/L	23	23.9	19.9	15.5
Dissolved Oxygen	mg/L	8.5	8.1	9.3	9.2
Oxidation-Reduction Potential	mV	356	377	457	392
Table 6.10 ED1 – Evaporation Dam 1					
Pollutant	Unit	15/10/2020	02/02/2021	08/04/2021	23/08/2021
Nitrogen (ammonia)	mg/L	21.3	22.7	16	3.7
Biochemical Oxygen Demand	mg/L	3	2	<2	<2
Conductivity	µS/cm	28200	27100	20500	4840
pH	pH	2.48	2.48	2.67	3.52
Total Dissolved Solids	mg/L	56800	49600	36200	4970
Total Organic Carbon	mg/L	22	20	13	4

Total Potassium	mg/L	<0.1	0.8	1.7	2.6
Dissolved Oxygen	mg/L	8.6	8	9.2	9
Oxidation-Reduction Potential	mV	636	589	606	453

Table 7.1 Leachate Dam			
Pollutant	Unit*	Frequency	26/08/2021
Alkalinity (as CaCO ₃)	mg/L	Annual	12700
Aluminium	mg/L	Annual	5.57
Arsenic	mg/L	Annual	0.35
Barium	mg/L	Annual	0.29
Benzene	mg/L	Annual	<5
Cadmium	mg/L	Annual	0.00609
Calcium	mg/L	Annual	156
Chloride	mg/L	Annual	2510
Chromium (Hexavalent)	mg/L	Annual	<1
Chromium (Total)	mg/L	Annual	0.668
Cobalt	mg/L	Annual	0.0914
Conductivity	µS/cm	Annual	27100
Copper	mg/L	Annual	0.053
Ethyl Benzene	mg/L	Annual	<5
Fluoride	mg/L	Annual	1.1
Lead	mg/L	Annual	0.798
Magnesium	mg/L	Annual	184
Manganese	mg/L	Annual	2.08
Mercury	mg/L	Annual	<0.0005
Nitrate	mg/L	Annual	<5
Nitrite	mg/L	Annual	<1
Nitrogen (ammonia)	mg/L	Annual	2550
Organo-chlorine pesticides	mg/L	Annual	<0.0024
Organo-phosphate pesticides	mg/L	Annual	<0.0024
pH	pH	Annual	8.71
Phosphorous (Total)	mg/L	Annual	24.5
Polycyclic Aromatic	mg/L	Annual	<0.5
Potassium	mg/L	Annual	1380
Sodium	mg/L	Annual	2710
Sulphate	mg/L	Annual	473
Toluene	mg/L	Annual	<5
Total Dissolved Solids	mg/L	Annual	13000
Total Organic Carbon	mg/L	Annual	5740
Total Petroleum Hydrocarbons	mg/L	Annual	11.7
Total Phenols	mg/L	Annual	0.49
Total Suspended Solids	mg/L	Annual	1500
Xylene	mg/L	Annual	<2
Zinc	mg/L	Annual	2.96

Table 7.2 Leachate Recirculation System			
Pollutant	Unit*	Frequency	26/08/2021
Alkalinity (as CaCO ₃)	mg/L	Annual	12000
Aluminium	mg/L	Annual	3.39
Arsenic	mg/L	Annual	0.311
Barium	mg/L	Annual	0.317
Benzene	mg/L	Annual	<5
Cadmium	mg/L	Annual	0.0127
Calcium	mg/L	Annual	160
Chloride	mg/L	Annual	1870
Chromium (Hexavalent)	mg/L	Annual	<1
Chromium (Total)	mg/L	Annual	0.627
Cobalt	mg/L	Annual	0.0621
Conductivity	µS/cm	Annual	25700
Copper	mg/L	Annual	0.062
Ethyl Benzene	mg/L	Annual	<5
Fluoride	mg/L	Annual	0.79
Lead	mg/L	Annual	0.098
Magnesium	mg/L	Annual	153
Manganese	mg/L	Annual	1.77
Mercury	mg/L	Annual	<0.0005
Nitrate	mg/L	Annual	<5
Nitrite	mg/L	Annual	<1
Nitrogen (ammonia)	mg/L	Annual	2650
Organo-chlorine pesticides	mg/L	Annual	<0.0024
Organo-phosphate	mg/L	Annual	<0.0024
pH	pH	Annual	8.28
Phosphorous (Total)	mg/L	Annual	20.8
Polycyclic Aromatic	mg/L	Annual	<0.05
Potassium	mg/L	Annual	1030
Sodium	mg/L	Annual	2050
Sulphate	mg/L	Annual	382
Toluene	mg/L	Annual	<0.013
Total Dissolved Solids	mg/L	Annual	10800
Total Organic Carbon	mg/L	Annual	4520
Total Petroleum	mg/L	Annual	17.7
Total Phenols	mg/L	Annual	2.96
Total Suspended Solids	mg/L	Annual	191
Xylene	mg/L	Annual	7
Zinc	mg/L	Annual	3.32

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)
10/09/2020	8.11	18100	2240	4	0.81	<10	683	2	14300	2560
17/09/2020	8.09	18900	2260	3	2.14	<10	720	1.6	14600	2730
24/09/2020	7.97	19800	2260	3	3.07	<10	927	<0.5	15900	2820
01/10/2020	8.69	21000	2540	5	3.13	<10	980	4.2	17100	3070
08/10/2020	8.06	21400	2540	4	2.89	<10	925	1.4	17100	3120
15/10/2020	8.23	20300	2710	4	8.94	<10	591	1	16000	3090
22/10/2020	8.18	17300	3470	5	1.13	<10	80.8	1.1	12900	2960
29/10/2020	8.27	1800	3000	3	0.77	<10	184	2.2	12600	3120
05/11/2020	8.16	17800	2410	4	0.91	<10	413	3.6	13700	3300
12/11/2020	8.17	19900	2520	4	1.1	<10	689	2.4	14800	3250
19/11/2020	7.82	19400	2460	7	1.71	<10	833	<0.5	15200	3170
26/11/2020	8.3	20300	2620	<2	3.15	<10	887	<0.5	15400	3290
03/12/2020	8.23	20500	2620	4	6.04	<10	1020	2.3	16000	3150
10/12/2020	8.2	21500	2620	4	6.92	<10	881	1.4	16500	3410
17/12/2020	8.05	21200	2430	3	7.91	<10	902	3.7	16600	3540
24/12/2020	8.19	20700	2540	4	5.05	<10	711	5	15300	3490
31/12/2020	8.19	19500	2490	3	4.2	<10	554	<0.5	13300	3470
07/01/2021	8.35	19400	2660	4	8.02	<10	470	<0.5	13400	3380
14/01/2021	8.19	19100	2660	4	9.03	<10	527	1.6	14300	3380
21/01/2021	8.21	19800	2480	4	5.44	<10	589	<0.5	14100	3300
28/01/2021	8.3	19700	2630	3	4.21	<10	657	<0.5	15000	3280
04/02/2021	8.22	19000	2840	4	12.1	<10	532	1.9	1400	3270
11/02/2021	8.46	18900	2600	4	14	1.7	0.44	1	13200	2900
18/02/2021	8.07	17000	2360	5	7.95	<1	19	2.4	13000	3010
26/02/2021	8.15	17500	2260	4	14.6	<10.0	272	1.3	12500	3040
04/03/2021	8.1	20300	2300	3	12.6	<10.0	532	1.2	13300	2840
11/03/2021	7.88	18000	2340	2	10.6	<10.0	629	1	13600	2870
18/03/2021	7.79	17800	2380	3	9.25	<1	761	2	13900	2870
25/03/2021	8.02	16000	2410	<2	9.82	<10.0	719	<0.5	12900	2650
01/04/2021	8.12	15300	2090	2	9.8	<10.0	685	0.6	11800	2360
08/04/2021	7.86	13800	1730	<2	11.2	<10.0	540	2.4	10400	2090
15/04/2021	8.06	12500	1440	2	8	<10.0	268	1.3	9000	1980
22/04/2021	8.19	9670	1440	3	6.78	<10.0	8.76	4.1	8070	1810
29/04/2021	7.85	12100	1850	2	6.31	<10.0	192	4.6	9080	1750
06/05/2021	8.07	12300	1620	2	6.81	<10.0	373	4.6	9780	1880
13/05/2021	8.06	13500	1740	3	5.47	<10.0	426	1.8	10200	2330
20/05/2021	7.83	14700	1860	3	3.19	<10.0	479	<0.5	11100	1900
27/05/2021	8.06	13500	1840	5	5.4	<10.0	869	<0.5	12500	2140
03/06/2021	7.72	16200	2140	3	5.64	<10.0	758	0.8	12800	2180
10/06/2021	7.72	17200	1680	3	3.54	6	668	0.5	12700	3750
17/06/2021	8.09	16300	2040	3	2.32	<10	498	<0.5	12300	2440
24/06/2021	8.57	21000	2420	4	5.93	<10	947	4.2	9230	1970
01/07/2021	7.74	13300	1450	3	1.2	<10	31.5	<2	9460	2060
08/07/2021	7.64	13600	1590	3	1.28	<10	271	2.1	10000	2190
15/07/2021	7.79	15300	1810	2	1.59	<10	704	1.1	12600	2160
22/07/2021	7.68	15800	2000	3	1.16	13.5	586	2.6	12400	2110
29/07/2021	8.08	16300	1560	4	1.2	<10	774	<0.5	12200	2080
05/08/2021	7.47	16300	1550	3	1.63	<10	769	3.2	12900	2210
12/08/2021	7.83	14900	1660	3	2.1	<10	745	<0.5	12100	2130
19/08/2021	7.74	17800	1780	3	2.47	<1.0	959	0.9	14000	2370
26/08/2021	7.42	17800	2260	3	2.03	<10	778	1.7	14100	2490
02/09/2021	7.47	16900	1980	3	2.07	<10	852	<0.5	12900	2360

Table 9.1 MB1					
Pollutant	Unit	30/11/2020	19/01/2021	17/05/2021	03/09/2021
Bicarbonate	mg/L	360	361	348	364
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	360	361	348	364
Nitrogen (ammonia)	mg/L	<0.3	<0.1	<0.1	<0.1
Chloride	mg/L	158	158	179	225
Conductivity	µS/cm	1530	1630	1331	1710
Calcium	mg/L	148	148	160	175
Magnesium	mg/L	78	76.5	80.9	92.1
Potassium	mg/L	5.9	5.9	6.5	7.4
Sodium	mg/L	47.5	47.3	47	59
pH	pH	7.85	7.69	7.42	7.55
Sulphate	mg/L	261	254	255	258
Total Dissolved Solids	mg/L	1100	1250	1070	1360
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.02	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00161	
Cobalt	mg/L			0.0008	
Copper	mg/L			0.002	
Lead	mg/L			0.0008	
Manganese	mg/L			0.169	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.192	
Fluoride	mg/L			0.31	
Nitrate	mg/L			0.13	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			7	
Barium	mg/L			0.087	
Total Chromium	mg/L			0.001	
Standing Water Level	m	22	23.47	21.57	20.49

Table 9.3 MB3					
Pollutant	Unit	30/11/2020	19/01/2021	19/04/2021	31/08/2021
Bicarbonate	mg/L	264	255	265	255
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	264	255	265	255
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	460	432	460	466
Conductivity	µS/cm	1920	1910	1552	1800
Calcium	mg/L	122	121	118	131
Magnesium	mg/L	99.3	92.3	93.3	99.1
Potassium	mg/L	1.4	1.3	1.3	1.8
Sodium	mg/L	66.7	66.3	71.6	73.1
pH	pH	7.49	7.18	7.07	6.82
Sulphate	mg/L	27	39.3	26.7	27.4
Total Dissolved Solids	mg/L	1140	1520	1170	1240
Chromium (Hex)	mg/L			<0.05	
Aluminium	mg/L			0.04	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.0001	
Cobalt	mg/L			<0.0002	
Copper	mg/L			<0.001	
Lead	mg/L			<0.0004	
Manganese	mg/L			<0.001	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.015	
Fluoride	mg/L			0.09	
Nitrate	mg/L			0.75	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	

Table 9.2 MB2					
Pollutant	Unit	30/11/2020	19/01/2021	19/04/2021	31/08/2021
Bicarbonate	mg/L	217	213	211	216
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	217	213	211	216
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	611	615	675	749
Conductivity	µS/cm	6860	6990	5655	5730
Calcium	mg/L	535	503	494	533
Magnesium	mg/L	810	750	741	795
Potassium	mg/L	1.6	1.5	1.4	1.4
Sodium	mg/L	280	258	273	264
pH	pH	7.43	7.16	7.12	7.13
Sulphate	mg/L	4040	3990	4480	5090
Total Dissolved Solids	mg/L	7110	7280	7120	7050
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.04	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.0885	
Cobalt	mg/L			0.0003	
Copper	mg/L			<0.001	
Lead	mg/L			0.0002	
Manganese	mg/L			0.037	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.052	
Fluoride	mg/L			0.38	
Nitrate	mg/L			<0.05	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			5	
Barium	mg/L			0.0197	
Total Chromium	mg/L			0.001	
Standing Water Level	m	2.82	3.08	2.49	1.57

Table 9.4 MB4					
Pollutant	Unit	07/12/2020	08/01/2021	31/03/2021	24/06/2021
Bicarbonate	mg/L	14	16.3	29.3	14.6
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	14	16	29	15
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	390	400	419	295
Conductivity	µS/cm	1710	1660	1660	1800
Calcium	mg/L	7.55	7.18	8.14	7.67
Magnesium	mg/L	85.6	80	93	95.4
Potassium	mg/L	1.5	1.5	1.6	1.6
Sodium	mg/L	168	157	191	201
pH	pH	5.95	5.92	6.35	6.18
Sulphate	mg/L	171	177	178	103
Total Dissolved Solids	mg/L	1160	1110	1020	1190
Chromium (Hex)	mg/L			<0.001	
Aluminium	mg/L			0.012	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00176	
Cobalt	mg/L			0.00249	
Copper	mg/L			0.056	
Lead	mg/L			0.0035	
Manganese	mg/L			0.03	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.915	
Fluoride	mg/L			0.012	
Nitrate	mg/L			0.3	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	

Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			1	
Barium	mg/L			0.0298	
Total Chromium	mg/L			0.001	
Standing Water Level	m	2.92	2.92	2.61	1.74

Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			<1	
Barium	mg/L			0.0285	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	12.54	13.06	12.5	12.15

Table 9.5 MB6					
Pollutant	Unit	30/09/2020	08/01/2021	16/03/2021	24/06/2021
Bicarbonate	mg/L		49.3	48.4	
Carbonate	mg/L		<0.1	<0.1	
Alkalinity (as CaCO3)	mg/L		49	48	
Nitrogen (ammonia)	mg/L		<0.1	<0.1	
Chloride	mg/L		481	401	
Conductivity	µS/cm		2150	1760	
Calcium	mg/L		14.1	12.5	
Magnesium	mg/L		148	122	
Potassium	mg/L		8.1	7.7	
Sodium	mg/L		171	136	
pH	pH		6.23	6.2	
Sulphate	mg/L		307	202	
Total Dissolved Solids	mg/L		1360	1070	
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.11	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00578	
Cobalt	mg/L			0.0027	
Copper	mg/L			0.005	
Lead	mg/L			0.0004	
Manganese	mg/L			0.175	
Mercury	mg/L			<0.0001	
Zinc	mg/L			4.49	
Fluoride	mg/L			0.45	
Nitrate	mg/L			0.08	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			2	
Barium	mg/L			0.0243	
Total Chromium	mg/L			0.004	
Standing Water Level	m	21.57	22.6	22.65	23.8

Table 9.6 MB7					
Pollutant	Unit	7/12/2020	10/02/2021	04/06/2021	03/09/2021
Bicarbonate	mg/L	714	698	676	658
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	714	698	676	658
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	2650	2860	2630	2590
Conductivity	µS/cm	8540	9440	8440	7070
Calcium	mg/L	298	311	291	296
Magnesium	mg/L	546	587	532	548
Potassium	mg/L	9	8.8	8.1	9
Sodium	mg/L	570	586	580	573
pH	pH	7.72	7.54	7.01	7.57
Sulphate	mg/L	151	151	139	148
Total Dissolved Solids	mg/L	5830	7440	5270	5640
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.02	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00342	
Cobalt	mg/L			0.0012	
Copper	mg/L			0.002	
Lead	mg/L			0.0003	
Manganese	mg/L			0.0844	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.227	
Fluoride	mg/L			0.42	
Nitrate	mg/L			0.36	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<50	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			13	
Barium	mg/L			0.12	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	2	2.32	1.69	1.1

Table 9.7 MB10					
Pollutant	Unit	30/11/2020	26/02/2021	16/06/2021	02/09/2021
Bicarbonate	mg/L	297	284	278	216
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	297	284	278	216
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	1120	1090	1100	1170
Conductivity	µS/cm	7940	8420	8100	6100
Calcium	mg/L	527	546	502	568
Magnesium	mg/L	726	766	697	799
Potassium	mg/L	1	1	0.8	1
Sodium	mg/L	492	481	474	538
pH	pH	7.59	7.58	6.68	7.48
Sulphate	mg/L	3790	3750	3710	3870
Total Dissolved Solids	mg/L	7340	8320	7670	7670
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.03	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00012	
Cobalt	mg/L			0.0006	
Copper	mg/L			<0.001	
Lead	mg/L			<0.0005	
Manganese	mg/L			0.0994	
Mercury	mg/L			0.0001	
Zinc	mg/L			0.028	
Fluoride	mg/L			0.36	
Nitrate	mg/L			<0.05	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	

Table 9.8 ED38					
Pollutant	Unit	10/12/2020	10/02/2021	04/06/2021	07/09/2021
Bicarbonate	mg/L	624	525	496	482
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	624	525	196	482
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	1760	1800	1760	1900
Conductivity	µS/cm	7710	8170	7720	6700
Calcium	mg/L	81.2	82.8	85.3	83.3
Magnesium	mg/L	347	352	366	412
Potassium	mg/L	10.2	1.2	2	10.1
Sodium	mg/L	911	1070	1140	1210
pH	pH	7.48	7.69	7.18	7.4
Sulphate	mg/L	1080	1070	1110	1070
Total Dissolved Solids	mg/L	5070	5220	5210	6190
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			<0.02	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00477	
Cobalt	mg/L			0.0036	
Copper	mg/L			0.012	
Lead	mg/L			0.0024	
Manganese	mg/L			0.345	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.356	
Fluoride	mg/L			0.51	
Nitrate	mg/L			0.29	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			60	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	

TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			3	
Barium	mg/L			0.0062	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	2.92	2.25	2.19	1.63

Table 9.9 WM1					
Pollutant	Unit	3/12/2021	08/02/2021	23/06/2021	27/08/2021
Bicarbonate	mg/L	268	224	68	88
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	268	224	68	88
Nitrogen (ammonia)	mg/L	<0.8	0.1	<0.1	<0.1
Chloride	mg/L	176	188	79.7	88.3
Conductivity	µS/cm	3490	3840	1980	1900
Calcium	mg/L	392	414	344	340
Magnesium	mg/L	241	258	60.6	70.1
Potassium	mg/L	11.2	21.6	7	7.3
Sodium	mg/L	112	120	56.7	56
pH	pH	7.71	7.36	6.58	6.92
Sulphate	mg/L	1910	2060	992	1090
Total Dissolved Solids	mg/L	3390	3970	1710	1760
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.04	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00795	
Cobalt	mg/L			0.0009	
Copper	mg/L			0.02	
Lead	mg/L			0.0022	
Manganese	mg/L			0.0915	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.281	
Fluoride	mg/L			0.54	
Nitrate	mg/L			1.8	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			430	
TPH C29-C36	µg/L			290	
Total Petroleum Hydrocarbons	mg/L			720	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			7	
Barium	mg/L			0.0338	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	36	34.88	31.31	30.42

Table 9.11 WM6					
Pollutant	Unit	10/11/2020	19/01/2021	04/06/2021	03/09/2021
Bicarbonate	mg/L	57	58.9	54.9	62.3
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	57	59	55	62
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	5060	4790	4860	5150
Conductivity	µS/cm	14200	14000	13600	13200
Calcium	mg/L	137	104	113	128
Magnesium	mg/L	560	439	466	533
Potassium	mg/L	2.7	2	2	2.2
Sodium	mg/L	2340	2290	2260	1980
pH	pH	6.32	6.26	6.4	6.23
Sulphate	mg/L	287	280	280	289
Total Dissolved Solids	mg/L	8740	8940	8810	8660
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.02	
Arsenic	mg/L			0.001	
Cadmium	mg/L			0.00257	
Cobalt	mg/L			0.0481	
Copper	mg/L			0.013	
Lead	mg/L			0.0178	
Manganese	mg/L			0.206	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.303	
Fluoride	mg/L			0.29	
Nitrate	mg/L			6.01	
Nitrite	mg/L			<0.01	

TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			27	
Barium	mg/L			0.0366	
Total Chromium	mg/L			0.001	
Standing Water Level	m	2.63	2.76	2.97	2.63

Table 9.10 WM5					
Pollutant	Unit	10/11/2020	19/01/2021	04/06/2021	02/09/2021
Bicarbonate	mg/L	688	822	275	445
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	688	822	275	445
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	1970	2610	119	396
Conductivity	µS/cm	6720	8890	1020	1820
Calcium	mg/L	78.7	124	8.05	20.5
Magnesium	mg/L	265	379	21.2	51.3
Potassium	mg/L	2.6	2.5	0.5	1
Sodium	mg/L	834	1020	191	321
pH	pH	7.72	7.67	7.59	7.45
Sulphate	mg/L	91.7	130	28.5	34.4
Total Dissolved Solids	mg/L	3860	5460	588	1110
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			<0.02	
Arsenic	mg/L			0.006	
Cadmium	mg/L			<0.00005	
Cobalt	mg/L			<0.0002	
Copper	mg/L			<0.008	
Lead	mg/L			<0.0002	
Manganese	mg/L			<0.0005	
Mercury	mg/L			<0.0001	
Zinc	mg/L			0.006	
Fluoride	mg/L			1	
Nitrate	mg/L			<0.05	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			12	
Barium	mg/L			0.0227	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	0.95	1.87	0.79	0.39

Table 9.12 MW8S					
Pollutant	Unit	04/12/2020	19/01/2021	04/06/2021	07/09/2021
Bicarbonate	mg/L	150		254	87.2
Carbonate	mg/L	<0.1		<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	150		254	87
Nitrogen (ammonia)	mg/L	<0.1		<0.1	<0.1
Chloride	mg/L	780		819	328
Conductivity	µS/cm	5960		8130	
Calcium	mg/L	150		209	88.4
Magnesium	mg/L	463		674	267
Potassium	mg/L	4.5		2.9	2.9
Sodium	mg/L	570		916	375
pH	pH	6.94		7.02	6.56
Sulphate	mg/L	2130		3860	1670
Total Dissolved Solids	mg/L	5080		7410	3020
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.02	
Arsenic	mg/L			0.002	
Cadmium	mg/L			0.12	
Cobalt	mg/L			0.0078	
Copper	mg/L			0.018	
Lead	mg/L			0.0014	
Manganese	mg/L			0.39	
Mercury	mg/L			<0.0001	
Zinc	mg/L			12.1	
Fluoride	mg/L			0.82	
Nitrate	mg/L			<0.05	
Nitrite	mg/L			<0.01	

Organo-chlorine pesticides	mg/L			0.0135	
Organo-phosphate pesticides	mg/L			0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			15	
Barium	mg/L			0.0619	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	3.8	4.07	3.63	3.39

Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			8	
Barium	mg/L			0.0276	
Total Chromium	mg/L			0.001	
Standing Water Level	m	6.9	7.02	6.5	6.26

Table 9.13 MW8D					
Pollutant	Unit	04/12/2020	19/01/2021	04/06/2021	02/09/2021
Bicarbonate	mg/L	72.5	69.9	55.7	62.6
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	72	70	56	63
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	524	582	524	459
Conductivity	µS/cm	4240	4670	4300	3820
Calcium	mg/L	100	111	110	107
Magnesium	mg/L	300	324	302	303
Potassium	mg/L	1.9	2.1	2	2.1
Sodium	mg/L	438	429	434	384
pH	pH	6.64	6.75	6.92	6.38
Sulphate	mg/L	1380	1560	1380	1690
Total Dissolved Solids	mg/L	3490	3770	9920	3110
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			<0.02	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.0696	
Cobalt	mg/L			0.0047	
Copper	mg/L			0.035	
Lead	mg/L			<0.0004	
Manganese	mg/L			1.12	
Mercury	mg/L			<0.0001	
Zinc	mg/L			7.28	
Fluoride	mg/L			0.37	
Nitrate	mg/L			27	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			5	
Barium	mg/L			0.014	
Total Chromium	mg/L			<0.001	
Standing Water Level	m	6.64	6.75	6.92	6.38

Table 9.14 MW9S					
Pollutant	Unit	07/12/2021	26/02/2021	04/06/2021	03/09/2021
Bicarbonate	mg/L	400	398	247	259
Carbonate	mg/L	<0.1	<0.1	<0.1	<0.1
Alkalinity (as CaCO3)	mg/L	400	398	247	259
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	1670	1870	1980	1910
Conductivity	µS/cm	11000	11600	11100	9470
Calcium	mg/L	329	340	343	370
Magnesium	mg/L	862	866	870	1070
Potassium	mg/L	2.3	2.2	2.2	2.3
Sodium	mg/L	1120	1180	1440	1400
pH	pH	7.42	7.36	6.83	7.09
Sulphate	mg/L	3460	4280	4320	4810
Total Dissolved Solids	mg/L	9910	10100	9920	10000
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.03	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00136	
Cobalt	mg/L			0.0148	
Copper	mg/L			0.009	
Lead	mg/L			0.0033	
Manganese	mg/L			0.0155	
Mercury	mg/L			0.0003	
Zinc	mg/L			0.207	
Fluoride	mg/L			1.2	
Nitrate	mg/L			1.09	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<0.05	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			4	
Barium	mg/L			0.0178	
Total Chromium	mg/L			0.003	
Standing Water Level	m	3.06	3.06	2.94	2.67

Table 9.15 MW10S					
Pollutant	Unit	10/11/2020	26/02/2021	04/06/2021	02/09/2021
Bicarbonate	mg/L				
Carbonate	mg/L				
Alkalinity (as CaCO3)	mg/L				
Nitrogen (ammonia)	mg/L				
Chloride	mg/L				
Conductivity	µS/cm				
Calcium	mg/L				
Magnesium	mg/L				
Potassium	mg/L				
Sodium	mg/L				
pH	pH				
Sulphate	mg/L				
Total Dissolved Solids	mg/L				
Chromium (Hex)	mg/L				
Aluminium	mg/L				
Arsenic	mg/L				
Cadmium	mg/L				
Cobalt	mg/L				
Copper	mg/L				
Lead	mg/L				

Table 9.16 MB28					
Pollutant	Unit	10/12/2020	26/02/2021	24/06/2021	07/09/2021
Bicarbonate	mg/L	461	302	444	551
Carbonate	mg/L	<0.1	<0.1	<0.01	<0.1
Alkalinity (as CaCO3)	mg/L	461	302	444	551
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	3470	3620	2750	2380
Conductivity	µS/cm	11200	11800	9520	7040
Calcium	mg/L	309	352	271	208
Magnesium	mg/L	698	754	624	532
Potassium	mg/L	2.4	2.1	2	1.6
Sodium	mg/L	821	807	881	1020
pH	pH	7.38	7.59	6.79	7.58
Sulphate	mg/L	748	700	772	798
Total Dissolved Solids	mg/L	8050	8020	6210	5900
Chromium (Hex)	mg/L			<0.01	
Aluminium	mg/L			0.04	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.0268	
Cobalt	mg/L			0.0034	
Copper	mg/L			0.01	
Lead	mg/L			0.0004	

Manganese	mg/L	Dry	Dry	Dry	Dry	Manganese	mg/L				0.0432	
Mercury	mg/L					Mercury	mg/L				0.0002	
Zinc	mg/L					Zinc	mg/L				1.03	
Fluoride	mg/L					Fluoride	mg/L				0.61	
Nitrate	mg/L					Nitrate	mg/L				4.22	
Nitrite	mg/L					Nitrite	mg/L				<0.01	
Organo-chlorine pesticides	mg/L					Organo-chlorine pesticides	mg/L				<0.0135	
Organo-phosphate pesticides	mg/L					Organo-phosphate pesticides	mg/L				<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L					Polycyclic Aromatic Hydrocarbons	µg/L				<0.5	
TPH C6-C9	µg/L					TPH C6-C9	µg/L				<20	
TPH C10-C14	µg/L					TPH C10-C14	µg/L				100	
TPH C15- C28	µg/L					TPH C15- C28	µg/L				130	
TPH C29-C36	µg/L					TPH C29-C36	µg/L				<50	
Total Petroleum Hydrocarbons	mg/L					Total Petroleum Hydrocarbons	mg/L				230	
Benzene	µg/L					Benzene	µg/L				<1	
Toluene	µg/L					Toluene	µg/L				<2	
Ethyl Benzene	µg/L					Ethyl Benzene	µg/L				<2	
Xylene	µg/L					Xylene	µg/L				<2	
Total Phenols	mg/L					Total Phenols	mg/L				<0.05	
Total Organic Carbon	mg/L					Total Organic Carbon	mg/L				7	
Barium	mg/L					Barium	mg/L				0.0419	
Total Chromium	mg/L					Total Chromium	mg/L				0.001	
Standing Water Level	m	9.84	9.83	9.83	9.88	Standing Water Level	m	7.28	7.61	6.6	6.14	
Table 9.17 MB33						Table 9.18 SP2-MW1						
Pollutant	Unit	03/12/2020	08/02/2021	23/06/2021	27/08/2021	Pollutant	Unit	30/11/2020	19/01/2021	19/04/2021	07/09/2021	
Bicarbonate	mg/L	97.8	<0.1	25.6	<0.1	Chloride	mg/L	266	643	737	609	
Carbonate	mg/L	51.4	25.8	196	85.8	Conductivity	µS/cm	1820	2780	2662	2270	
Alkalinity (as CaCO3)	mg/L	149	67	222	167	pH	mg/L	7.03	7.47	7.04	7.43	
Nitrogen (ammonia)	mg/L	0.7	1.2	0.9	0.9	Sulphate	mg/L	436	269	225	136	
Chloride	mg/L	164	135	127	132	Total Dissolved Solids	mg/L	1180	2100	1880	1840	
Conductivity	µS/cm	1340	1860	2340	1970	Cadmium	mg/L			1.76		
Calcium	mg/L	34.3	64.8	85.9	88.6	Copper	mg/L	0.00235	0.00318	0.0028	0.00107	
Magnesium	mg/L	46.2	0.15	0.06	<0.1	Lead	mg/L	<0.001	0.001	0.001	0.002	
Potassium	mg/L	12.7	101	109	110	Zinc	mg/L	<0.0002	0.0003	<0.0002	<0.0002	
Sodium	mg/L	83.2	204	250	236	Standing Water Level	m	0.31	0.157	0.182	0.108	
pH	pH	8.63	10.4	11.5	11.5	Table 9.19 MW-FRC1						
Sulphate	mg/L	92	390	421	477	Pollutant	Unit	30/11/2020	19/01/2021	19/04/2021	31/08/2021	
Total Dissolved Solids	mg/L	728	1080	1180	1130	Chloride	mg/L	2000	2230	2080	873	
Chromium (Hex)	mg/L			<0.01		Conductivity	µS/cm	7160	7770	5462	3490	
Aluminium	mg/L			0.15		pH	mg/L	7.67	7.66	7.58	6.89	
Arsenic	mg/L			<0.001		Sulphate	mg/L	580	364	363	921	
Cadmium	mg/L			<0.00005		Total Dissolved Solids	mg/L	4040	6750	4070	2940	
Cobalt	mg/L			0.0004		Cadmium	mg/L	0.00	2.28	1.78	0.00	
Copper	mg/L			0.009		Copper	mg/L	0.00363	0.00332	0.00755	0.00219	
Lead	mg/L			<0.0002		Lead	mg/L	0.003	0.004	0.002	0.005	
Manganese	mg/L			0.0069		Zinc	mg/L	<0.0002	0.0002	<0.0002	<0.0002	
Mercury	mg/L			<0.0001		Standing Water Level	m	0.186	0.401	0.088	2.35	
Zinc	mg/L			0.043		Table 9.20 MB10S						
Fluoride	mg/L			0.3		Pollutant	Unit	04/12/2020	02/03/2021	16/06/2021	07/09/2021	
Nitrate	mg/L			0.07		Chloride	mg/L	206	19.3	56.3	132	
Nitrite	mg/L			0.12		Conductivity	µS/cm	1700	1200	1490	2230	
Organo-chlorine pesticides	mg/L			<0.0135		pH	mg/L	6.59	6.43	6.22	6.74	
Organo-phosphate pesticides	mg/L			<0.014		Sulphate	mg/L	424	366	584	1050	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5		Total Dissolved Solids	mg/L	1350	952	1110	1960	
TPH C6-C9	µg/L			<20		Cadmium	mg/L	0.00	1.61	0.01	0.00	
TPH C10-C14	µg/L			<50		Copper	mg/L	0.0092	0.0114	0.0197	0.00661	
TPH C15- C28	µg/L			<100		Lead	mg/L	0.009	0.008	0.021	0.007	
TPH C29-C36	µg/L			<50		Zinc	mg/L	<0.0002	<0.0002	<0.0003	<0.0002	
Total Petroleum Hydrocarbons	mg/L			<50		Standing Water Level	m	3.08	3.14	3.26	2.66	
Benzene	µg/L			<1								
Toluene	µg/L			<2								
Ethyl Benzene	µg/L			<2								
Xylene	µg/L			<2								
Total Phenols	mg/L			<0.05								
Total Organic Carbon	mg/L			6								
Barium	mg/L			0.433								
Total Chromium	mg/L			<0.001								
Standing Water Level	m	46.67	46.74	44.84	44.47							
Table 9.21 MB34						Table 9.22 MB35						
Pollutant	Unit	N/A	08/02/2021	23/06/2021	27/08/2021	Pollutant	Unit	N/A	08/02/2021	23/06/2021	27/08/2021	
Bicarbonate	mg/L		260	262	268	Bicarbonate	mg/L		83	130	113	
Carbonate	mg/L		<0.1	<0.1	<0.1	Carbonate	mg/L		<0.1	<0.1	<0.1	
Alkalinity (as CaCO3)	mg/L		260	262	268	Alkalinity (as CaCO3)	mg/L		83	130	113	
Nitrogen (ammonia)	mg/L		0.5	0.1	<0.1	Nitrogen (ammonia)	mg/L		3.5	4.4	4.2	
Chloride	mg/L		291	284	294	Chloride	mg/L		234	252	265	
Conductivity	µS/cm		1910	1730	1570	Conductivity	µS/cm		12400	11800	8310	
Calcium	mg/L		73.9	74	68.9	Calcium	mg/L		635	473	422	
Magnesium	mg/L		130	128	126	Magnesium	mg/L		515	433	445	
Potassium	mg/L		8.1	5.8	6.7	Potassium	mg/L		89.4	93.7	88.4	
Sodium	mg/L		82.4	89.2	84.2	Sodium	mg/L		970	835	885	
pH	pH		7.35	7.8	7.73	pH	pH		5.62	5.79	5.66	
Sulphate	mg/L		267	219	213	Sulphate	mg/L		10600	10500	11000	
Total Dissolved Solids	mg/L		1560	1220	1130	Total Dissolved Solids	mg/L		17000	17000	16700	
Chromium (Hex)	mg/L			<0.01		Chromium (Hex)	mg/L			<0.05		

Aluminium	mg/L			<0.02	
Arsenic	mg/L			<0.001	
Cadmium	mg/L			0.00547	
Cobalt	mg/L			0.0048	
Copper	mg/L			<0.001	
Lead	mg/L			<0.0002	
Manganese	mg/L			1.18	
Mercury	mg/L			<0.0001	
Zinc	mg/L			2.07	
Fluoride	mg/L			0.64	
Nitrate	mg/L			<0.05	
Nitrite	mg/L			<0.01	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			<50	
TPH C15- C28	µg/L			<100	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			<50	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			8	
Barium	mg/L			0.0337	
Total Chromium	mg/L			<0.001	
Standing Water Level	m		58.23	57.91	47

Aluminium	mg/L			1.29	
Arsenic	mg/L			0.002	
Cadmium	mg/L			0.00994	
Cobalt	mg/L			1.43	
Copper	mg/L			0.003	
Lead	mg/L			<0.0002	
Manganese	mg/L			53.4	
Mercury	mg/L			0.0009	
Zinc	mg/L			515	
Fluoride	mg/L			4.7	
Nitrate	mg/L			<0.5	
Nitrite	mg/L			0.21	
Organo-chlorine pesticides	mg/L			<0.0135	
Organo-phosphate pesticides	mg/L			<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L			<0.5	
TPH C6-C9	µg/L			<20	
TPH C10-C14	µg/L			100	
TPH C15- C28	µg/L			360	
TPH C29-C36	µg/L			<50	
Total Petroleum Hydrocarbons	mg/L			460	
Benzene	µg/L			<1	
Toluene	µg/L			<2	
Ethyl Benzene	µg/L			<2	
Xylene	µg/L			<2	
Total Phenols	mg/L			<0.05	
Total Organic Carbon	mg/L			110	
Barium	mg/L			0.0494	
Total Chromium	mg/L			0.001	
Standing Water Level	m		43.1	40.52	40.61

Table 10.1 P38				
P38A				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	38.87	39.69	39.14	38.46
Depth to Water (Reduced Level)	776.44	775.62	776.17	776.85
P38B				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	44.86	44.70	44.58	44.53
Depth to Water (Reduced Level)	770.45	770.61	770.73	770.78
Table 10.2 P200				
P200A				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	29.09	34.17	21.16	26.00
Depth to Water (Reduced Level)	760.91	755.83	768.84	764.00
P200B				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	29.28	28.45	20.70	26.29
Depth to Water (Reduced Level)	760.72	761.55	769.30	763.71
Table 10.3 P58				
P58A				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	42.1	42.04	42.10	42.20
Depth to Water (Reduced Level)	764.15	764.21	764.15	764.05
P58B				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	66.74	67.60	64.34	64.40
Depth to Water (Reduced Level)	739.51	738.65	741.91	741.85
Table 10.4 P59				
P59A				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	18.12	18.56	17.26	16.11
Depth to Water (Reduced Level)	786.58	786.14	787.44	788.59
P59B				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	19.04	17.52	16.38	30.90
Depth to Water (Reduced Level)	785.66	787.18	788.32	773.80
Table 10.5 P100				
P100A				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	39.75	Dry	Dry	Dry
Depth to Water (Reduced Level)	736.68			
P100B				
Date	23/10/2020	03/02/2021	14/04/2021	26/08/2021
Depth to Water	74.77	53.74	54.29	56.17
Depth to Water (Reduced Level)	701.66	722.69	722.14	720.26

Table 11.1 Meteorological													
Measure	Unit*	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	August 2021
Average Wind Speed at 10m	m/s	3.661	3.686	3.136	3.896	3.425	3.033	3.460	2.629	2.990	3.335	4.215	4.021
Average Wind Directon at 10m	°	190.252	176.134	181.618	154.920	149.600	137.555	153.174	192.122	210.220	216.898	241.061	252.352
Average Sigma Theta at 10m	°	20.907	20.439	22.577	20.270	21.580	22.745	20.610	18.720	18.253	18.221	15.778	17.126
Average Temperature at 10m	K	286.879	286.364	289.762	288.900	291.300	289.956	288.130	285.282	282.269	280.072	278.999	280.715
Average Temperature at 2m	K	287.474	287.727	290.328	289.200	293.600	295.944	289.610	327.396	304.707	279.923	278.784	280.509
Average Solar Radiation	W/m ²	0.213	0.190	0.266	0.237	0.234	0.205	0.166	0.168	0.111	0.080	0.088	0.132
Rainfall (Total)	mm	0.1	0	0	63.0	84	72	238.0	3.5	82	84.0	48.0	62

Table 12.1 Site 110 - Upstream

Pollutant	Unit	13/11/2020	02/02/2021	04/08/2021	19/08/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	<2	<4	<2	<2
Conductivity	µS/cm	838	536	772	1670
pH	pH	8.06	7.55	7.18	8.09
Sulphate	mg/L	53.3	44	39.4	144
Total Suspended Solids	mg/L	<2	<12	2	5
Total Dissolved Solids	mg/L	606	306	519	1030
Total Kjeldahl Nitrogen	mg/L	0.85	1.05	0.8	0.63
Total Organic Carbon	mg/L	17	16	15	14
Oil & Grease	mg/L	<1	<1	<1	<1
Phosphorous	mg/L	0.02	0.07	<1	<0.01
Copper	mg/L	4	0.007	0.004	0.005
Iron	mg/L	0.44	0.38	0.28	0.18
Lead	mg/L	1.3	0.0054	0.0021	0.0027
Zinc	mg/L	0.129	0.11	0.103	0.194

Table 12.2 Site 150 - Mulwaree River

Pollutant	Unit	13/11/2020	02/02/2021	08/04/2021	19/08/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	<2	2	<2	<2
Conductivity	µS/cm	557	459	614	1070
pH	pH	8.04	7.76	6.93	7.72
Sulphate	mg/L	24	31.3	23.2	64.6
Total Suspended Solids	mg/L	3	12	5	7
Total Dissolved Solids	mg/L	366	265	358	701
Total Kjeldahl Nitrogen	mg/L	0.79	0.82	1.3	0.56
Total Organic Carbon	mg/L	19	12	15	14
Oil & Grease	mg/L	<0.1	<0.1	<0.1	<0.1
Phosphorous	mg/L	<0.04	0.07	<1	<0.01
Copper	mg/L	8	0.004	0.006	0.013
Iron	mg/L	0.89	0.55	0.31	0.33
Lead	mg/L	1.8	0.017	0.0028	0.0086
Zinc	mg/L	0.896	0.052	0.068	0.235

Table 12.3 First Flush Stormwater Outlet

Pollutant	Unit	02/11/2020	02/02/2021	07/04/2021	19/08/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand	mg/L	<2	<4	<2	2
Conductivity	µS/cm	132	132	252	123
pH	pH	6.9	7.54	6.34	8.11
Sulphate	mg/L	6.7	7.8	8.3	9.2
Total Suspended Solids	mg/L	30	31	23	7
Total Dissolved Solids	mg/L	88	72	176	84
Total Kjeldahl Nitrogen	mg/L	0.66	0.76	0.96	0.44
Total Organic Carbon	mg/L	6	7	9	7
Oil & Grease	mg/L	<1	<1	<1	<1
Phosphorous	mg/L	0.06	0.07	<1	0.03
Copper	mg/L	0.008	0.006	0.024	0.006
Iron	mg/L	1.1	0.73	1.14	0.38
Lead	mg/L	0.0178	0.0036	0.0052	0.0047
Zinc	mg/L	0.101	0.052	0.208	0.052

	Table 13.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth											
Month	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
DG18	1.1	1.1	1.8	1.4	2.3	4.1	2.6	0.7	1.1	0.8	0.9	0.6

Table 15.1 WMBT Point 11					
Pollutant	Unit	30/11/2020	19/01/2021	17/05/2021	03/09/2021
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1
Conductivity	µS/cm	13800	13600	13600	13400
Potassium	mg/L	9.9	6.3	6.3	5.7
pH	pH	7.91	7.30	6.80	7.57
Sulphate	mg/L	574	570	564	546
Total Dissolved Solids	mg/L	8830	8160	8920	9230
Lead	mg/L	<0.0002	<0.002	0.0003	0.002
Zinc	mg/L	0.035	0.023	0.271	0.009
Total Organic Carbon	mg/L	11	12	8	13
Standing Water Level	m RL	778.86	777.86	781.86	776.86

Table 16.1 MBT Leachate Aeration Dam				
Pollutant	Unit*	Frequency	6/10/2020	23/2/2021
Alkalinity (as CaCO ₃)	mg/L	Every 6 months	8360	6360
Aluminium	mg/L	Every 6 months	20.7	30.4
Arsenic	mg/L	Every 6 months	0.035	0.064
Barium	mg/L	Every 6 months	0.14	0.263
Benzene	mg/L	Every 6 months	<1	1
Cadmium	mg/L	Every 6 months	0.0049	0.00871
Calcium	mg/L	Every 6 months	2230	745
Chloride	mg/L	Every 6 months	1460	1860
Chromium (Hexavalent)	mg/L	Every 6 months	<0.01	<0.1
Chromium (Total)	mg/L	Every 6 months	0.28	0.318
Cobalt	mg/L	Every 6 months	0.133	0.201
Conductivity	µS/cm	Every 6 months	17600	21200
Copper	mg/L	Every 6 months	0.032	0.18
Ethyl Benzene	mg/L	Every 6 months	3	2
Fluoride	mg/L	Every 6 months	0.16	0.1
Lead	mg/L	Every 6 months	0.183	0.287
Magnesium	mg/L	Every 6 months	216	277
Manganese	mg/L	Every 6 months	6.32	1.83
Mercury	mg/L	Every 6 months	<0.0001	<0.0001
Nitrate	mg/L	Every 6 months	<0.05	<0.05
Nitrite	mg/L	Every 6 months	<0.01	<0.01
Nitrogen (ammonia)	mg/L	Every 6 months	82.7	962
Organo-chlorine pesticides	mg/L	Every 6 months	<9.6	<9.6
Organo-phosphate pesticides	mg/L	Every 6 months	<9.6	<9.6
pH	pH	Every 6 months	7.26	7.67
Phosphorous (Total)	mg/L	Every 6 months	12.1	17.3
Polycyclic Aromatic	mg/L	Every 6 months	<0.5	<0.5
Potassium	mg/L	Every 6 months	503	900
Sodium	mg/L	Every 6 months	1070	1680
Sulphate	mg/L	Every 6 months	21	144
Toluene	mg/L	Every 6 months	<2	3
Total Dissolved Solids	mg/L	Every 6 months	18300	14100
Total Organic Carbon	mg/L	Every 6 months	8130	5480
Total Petroleum Hydrocarbons	mg/L	Every 6 months	16600	27000
Total Phenols	mg/L	Every 6 months	4.61	1.03
Total Suspended Solids	mg/L	Every 6 months	1030	1780
Xylene	mg/L	Every 6 months	<2	<2
Zinc	mg/L	Every 6 months	7.48	10.3

Table 17.1 DG33												
Month	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
Insoluble Solids (g/m2/mth)	2.9	2	1.4	1.3	2.6	2.3	0.3	0.5	0.4	0.6	0.4	1.1