

Moxey Farms Pty Ltd
The Angle
Angle Lane, Gooloogong NSW 2805
EPL 7365
Livestock Intensive Activities

Point 2 (Groundwater- MP1)

Sampling Frequency		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHd)
28-Aug-12	23-Dec-12	7.66	2460	0.07	1.7	0.53	0.46	249.27
6-Nov-12	23-Dec-12	7.69	2580	0.11	1.1	0.46	0.43	249.26
22-Apr-13	17-May-13	7.48	2580	0.05	1.0	0.33	0.31	244.36
30-Jul-13	Removed due to construction							
18-Sep-13	Removed due to construction							
Point 2 (Replacement Piezometer- MP1B)								
11-Nov-13	4-Dec-13	7.77	1880	3.02	5.6	3.60	0.15	248.35
18-Feb-14	14-Mar-14	7.50	2250	7.72	9.0	0.36	0.25	248.40
14-May-14	1-Jul-14	7.71	2470	17.7	20.5	0.40	0.24	248.62
26-Aug-14	1-Oct-14	7.71	2410	17.2	18.4	0.43	0.36	248.94
10-Nov-14	17-Dec-14	7.58	2550	22.3	24.9	0.26	0.26	248.46
25-Feb-15	7-Apr-15	7.26	3510	12.8	14.2	0.27	0.28	248.96
25-May-15	29-Jun-15	7.51	3320	4.19	6.0	0.60	0.42	248.97
31-Aug-15	7-Oct-15	7.57	3080	1.23	3.1	0.37	0.28	249.05
19-Nov-15	17-Dec-15	7.8	2960	2	3.8	0.36	0.32	248.84
16-Feb-16	16-Mar-16	7.73	2900	0.99	2.6	0.32	0.21	248.66
31-May-16	24-Jun-16	7.55	3030	10.9	11.5	0.19	0.19	248.31
16-Aug-16	18-Nov-16	7.3	2840	11.2	13.2	0.29	0.27	248.85
9-Nov-16	7-Dec-17	7.66	2430	5.03	6.4	0.29	0.26	249.43
16-Feb-17	17-Mar-17	7.58	2760	2.88	4.4	0.32	0.28	249.17
23-May-17	22-Jun-17	7.6	2710	0.44	1.7	0.32	0.21	248.73
15-Aug-17	14-Sep-17	7.68	3030	0.11	0.9	0.34	0.28	248.75
7-Nov-17	20-Dec-17	7.51	2500	0.15	1.0	0.28	0.31	248.57
27-Feb-18	23-Mar-18	7.5	2770	0.04	1.1	0.32	0.22	248.47
22-May-18	21-Jun-18	7.33	2630	0.02	1.1	0.33	0.28	248.41
30-Aug-18	26-Sep-18	8.14	2510	0.14	1.5	0.40	0.19	247.97
7-Nov-18	8-Jan-19	7.58	2880	0.02	0.6	0.21	0.16	248.09
26-Feb-19	14-Mar-19	7.39	2670	0.19	0.5	0.08	0.11	247.86
14-May-19	26-Jun-19	8.03	2560	0.02	1.3	0.36	0.21	247.81
7-Aug-19	19-Sep-19	7.49	2590	0.05	0.9	0.26	0.19	247.86
13-Nov-19	19-Dec-19	7.45	2510	0.02	0.7	0.24	0.21	247.42
5-Feb-20	2-Apr-20	8.01	2490	0.04	1.1	0.35	0.24	248.48
16-Jun-20	31-Aug-20	7.59	2360	0.3	1.2	0.48	0.24	248.27
9-Sep-20	17-Nov-20	7.91	2200	0.69	2.3	1.06	0.24	247.43
25-Nov-20	11-Dec-20	8	2200	1.4	2.4	0.67	0.2	247.28
2-Mar-21	30-Mar-21	8.03	2110	3.35	4.6	0.51	0.21	247.28

Point 3 (Groundwater- MP2)

Sampling Frequency		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHd)
28-Aug-12	23-Dec-12	7.23	303	0.06	0.7	0.52	<0.01	252.09
6-Nov-12	23-Dec-12	7.26	315	0.14	0.3	0.31	<0.01	251.77
22-Apr-13	17-May-13	7.02	303	0.07	0.3	0.29	0.01	251.81
30-Jul-13	5-Sep-13	7.15	331	0.06	0.2	0.17	0.02	251.49
18-Sep-13	4-Dec-13	7.16	312	0.06	<0.1	0.26	<0.01	251.36
11-Nov-13	4-Dec-13	7.30	324	0.02	0.2	0.32	<0.01	251.36
18-Feb-14	14-Mar-14	6.97	306	0.03	<0.1	0.18	<0.01	252.03
14-May-14	1-Jul-14	7.21	295	0.04	0.2	0.25	0.02	251.50
26-Aug-14	1-Oct-14	7.22	308	<0.01	0.1	0.30	<0.01	251.18
10-Nov-14	17-Dec-14	7.08	306	0.07	<0.1	0.27	0.17	251.21
25-Feb-15	7-Apr-15	6.89	323	<0.01	<0.1	0.21	<0.01	252.02
25-May-15	29-Jun-15	7.05	323	0.07	0.2	0.23	0.18	251.50
31-Aug-15	7-Oct-15	7.39	325	0.06	0.2	0.31	0.16	252.17
19-Nov-15	17-Dec-15	7.34	318	0.05	<0.1	0.27	<0.01	251.45
16-Feb-16	16-Mar-16	7.29	313	0.05	0.2	0.26	<0.01	251.69
31-May-16	24-Jun-16	7.11	314	0.1	0.3	0.16	0.11	251.35
16-Aug-16	18-Nov-16	6.92	320	0.16	0.5	0.23	<0.01	252.37
9-Nov-16	7-Dec-17	7.24	290	0.12	0.1	0.16	<0.01	253.76
16-Feb-17	17-Mar-17	7.1	324	0.07	0.3	0.20	<0.01	252.39
23-May-17	22-Jun-17	7.05	314	0.07	<0.1	0.14	<0.01	251.77
15-Aug-17	14-Sep-17	7.18	315	0.06	0.2	0.19	<0.01	251.34
7-Nov-17	20-Dec-17	6.9	205	0.15	0.4	0.14	<0.01	251.32
27-Feb-18	23-Mar-18	7.04	321	0.06	0.4	0.25	<0.01	251.61
22-May-18	21-Jun-18	7.12	313	0.04	0.2	0.23	0.03	251.33
30-Aug-18	26-Sep-18	8.36	320	0.02	0.2	0.32	<0.01	251.05
7-Nov-18	8-Jan-19	7.17	319	0.09	0.2	0.16	<0.01	251.02
26-Feb-19	14-Mar-19	6.89	259	0.07	0.2	0.12	<0.01	251.59
14-May-19	26-Jun-19	7.57	299	0.16	0.3	0.25	<0.01	250.99
7-Aug-19	19-Sep-19	7.07	348	0.09	0.3	0.14	0.07	250.78
13-Nov-19	19-Dec-19	7.01	349	0.11	0.1	0.15	0.02	250.57
5-Feb-20	2-Apr-20	7.65	352	0.19	0.6	0.22	<0.01	250.30
16-Jun-20	31-Aug-20	7.31	314	0.07	0.3	0.20	0.04	250.08
9-Sep-20	17-Nov-20	7.45	310	0.11	0.4	0.17	<0.01	250.59
25-Nov-20	11-Dec-20	7.39	302	0.12	0.1	0.16	0.02	250.41
2-Mar-21	30-Mar-21	6.74	365	<0.01	0.4	0.36	<0.01	250.17

Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHd)
28-Aug-12	23-Dec-12	7.06	399	0.02	0.8	0.46	<0.01	251.70
6-Nov-12	23-Dec-12	7.06	407	0.26	0.9	0.49	<0.01	251.30
22-Apr-13	17-May-13	6.84	399	<0.01	0.2	0.29	<0.01	250.85
30-Jul-13	5-Sep-13	7.19	431	0.11	0.3	0.24	<0.01	250.74
18-Sep-13	4-Dec-13	7.22	428	0.01	0.2	0.16	<0.01	250.60
11-Nov-13	4-Dec-13	7.26	453	0.01	0.2	0.14	<0.01	250.62
18-Feb-14	14-Mar-14	7.12	431	0.10	0.3	0.06	<0.01	250.76
14-May-14	1-Jul-14	7.23	444	62.7	63.3	0.10	0.10	250.37
26-Aug-14	1-Oct-14	7.27	466	0.01	0.8	0.17	<0.01	250.21
10-Nov-14	17-Dec-14	7.33	2980	60.90	66.2	0.09	0.09	250.24
25-Feb-15	7-Apr-15	6.93	792	<0.01	<0.1	0.07	<0.01	250.33
25-May-15	29-Jun-15	7.13	479	0.02	0.1	0.07	0.08	250.10
31-Aug-15	7-Oct-15	7.39	489	0.05	0.2	0.06	0.02	250.42
19-Nov-15	17-Dec-15	7.5	421	0.06	0.5	0.24	0.03	250.34
16-Feb-16	16-Mar-16	7.38	462	< 0.01	0.4	0.13	0.01	250.43
31-May-16	24-Jun-16	6.92	455	0.04	0.1	0.11	0.09	250.21
16-Aug-16	18-Nov-16	6.78	407	0.01	0.2	0.28	0.19	251.90
9-Nov-16	7-Dec-17	7	395	0.09	0.6	0.41	< 0.01	254.41
16-Feb-17	17-Mar-17	7.06	401	0.04	0.3	0.35	< 0.01	251.65
23-May-17	22-Jun-17	7.06	394	0.04	0.2	0.25	0.07	251.08
15-Aug-17	14-Sep-17	7.16	408	0.04	0.2	0.29	0.12	250.74
7-Nov-17	20-Dec-17	6.94	441	< 0.01	0.1	0.07	0.09	250.76
27-Feb-18	23-Mar-18	6.97	457	0.03	0.3	0.17	0.05	250.88
22-May-18	21-Jun-18	7.16	453	< 0.01	0.2	0.16	0.06	250.61
30-Aug-18	26-Sep-18	8.46	474	0.01	0.3	0.09	0.01	250.45
7-Nov-18	8-Jan-19	7.5	471	< 0.01	< 0.1	0.07	< 0.01	250.49
26-Feb-19	14-Mar-19	6.88	430	< 0.01	0.2	0.08	< 0.01	250.66
14-May-19	26-Jun-19	7.54	457	< 0.01	0.2	0.14	0.08	250.35
7-Aug-19	19-Sep-19	6.71	522	0.03	0.1	0.12	0.04	249.25
13-Nov-19	19-Dec-19	6.92	520	0.07	0.2	0.09	0.04	250.12
5-Feb-20	2-Apr-20	7.92	541	< 0.01	0.2	0.12	< 0.01	250.00
16-Jun-20	31-Aug-20	7.2	524	0.04	0.2	0.09	< 0.01	249.85
9-Sep-20	17-Nov-20	7.41	462	0.07	0.5	0.26	0.08	250.73
25-Nov-20	11-Dec-20	7.6	490	0.06	< 0.1	0.08	0.04	250.52
2-Mar-21	30-Mar-21	7.36	487	< 0.01	0.1	0.09	< 0.01	249.11

Point 7 (Groundwater- MP6)

Sampling Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHd)
18-Oct-12	23-Dec-12	7.30	514	0.02	0.4	0.46	<0.01	251.28
6-Nov-12	23-Dec-12	7.12	520	0.03	0.6	0.48	<0.01	251.21
22-Apr-13	17-May-13	6.89	495	0.05	3.2	0.9	<0.01	250.70
30-Jul-13	5-Sep-13	7.13	509	0.04	0.3	0.47	<0.01	250.62
18-Sep-13	4-Dec-13	7.15	500	0.02	0.2	0.43	<0.01	250.53
11-Nov-13	4-Dec-13	7.19	523	0.05	1.0	0.38	<0.01	250.42
18-Feb-14	14-Mar-14	6.79	494	0.03	2.2	0.89	<0.01	250.39
14-May-14	1-Jul-14	7.28	494	0.13	0.5	0.34	<0.01	250.26
26-Aug-14	1-Oct-14	6.98	505	0.02	0.4	0.35	<0.01	250.11
10-Nov-14	17-Dec-14	6.87	505	0.04	0.6	0.38	<0.01	250.08
25-Feb-15	7-Apr-15	6.69	516	0.03	0.1	0.38	<0.01	250.01
25-May-15	29-Jun-15	6.94	508	0.09	0.3	0.39	<0.01	249.93
31-Aug-15	7-Oct-15	6.89	513	0.22	0.5	0.36	0.02	250.25
19-Nov-15	17-Dec-15	7.23	497	0.14	0.9	0.44	<0.01	250.04
16-Feb-16	16-Mar-16	7.24	496	0.09	0.5	0.40	< 0.01	250.02
31-May-16	24-Jun-16	6.78	486	0.12	0.2	0.29	< 0.01	249.98
16-Aug-16	18-Nov-16	6.73	504	0.08	0.2	0.32	0.01	250.69
9-Nov-16	7-Dec-17	7.05	536	0.2	0.5	0.09	< 0.01	253.38
16-Feb-17	17-Mar-17	7.19	509	0.49	0.7	0.23	< 0.01	251.90
23-May-17	22-Jun-17	6.88	474	0.3	0.5	0.23	< 0.01	251.33
15-Aug-17	14-Sep-17	6.97	482	0.11	0.3	0.33	0.02	250.96
7-Nov-17	20-Dec-17	6.89	493	0.14	0.3	0.20	< 0.01	250.26
27-Feb-18	23-Mar-18	7	501	0.03	0.1	0.34	< 0.01	250.61
22-May-18	21-Jun-18	6.83	515	0.06	0.3	0.32	< 0.01	250.46
30-Aug-18	26-Sep-18	8.35	508	0.02	< 0.1	0.32	< 0.01	250.31
7-Nov-18	8-Jan-19	6.98	526	0.1	0.4	0.28	< 0.01	250.31
26-Feb-19	14-Mar-19	6.64	463	0.02	0.2	0.82	< 0.01	250.22
14-May-19	26-Jun-19	7.32	506	0.13	0.2	0.34	< 0.01	250.17
7-Aug-19	19-Sep-19	6.68	598	0.02	0.2	0.29	< 0.01	250.26
13-Nov-19	19-Dec-19	6.77	568	< 0.01	0.1	0.32	< 0.01	249.93
5-Feb-20	2-Apr-20	7.26	581	0.03	0.3	0.36	< 0.01	249.75
16-Jun-20	31-Aug-20	6.95	546	0.05	0.4	0.52	< 0.01	249.69
9-Sep-20	17-Nov-20	7.51	514	0.04	0.3	0.28	< 0.01	250.04
25-Nov-20	11-Dec-20	7.39	518	0.05	0.2	0.38	< 0.01	250.05
2-Mar-21	30-Mar-21	7.25	504	0.04	0.2	0.40	< 0.01	249.80

Point 8 (Groundwater- MP8)

Sampling Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHd)
28-Aug-12	23-Dec-12	7.15	2490	4.2	6.3	0.18	0.12	251.76
6-Nov-12	23-Dec-12	7.20	2560	4.14	5.1	0.24	0.12	251.56
22-Apr-13	17-May-13	7.04	2440	3.78	4.8	0.12	0.10	251.88

30-Jul-13	5-Sep-13	7.22	2460	3.28	4.0	0.14	0.10	251.55
18-Sep-13	4-Dec-13	7.21	2480	3.85	4.7	0.1	0.09	251.37
11-Nov-13	4-Dec-13	7.32	2540	3.11	4.2	0.11	0.07	251.30
18-Feb-14	Nil recharge							252.37
14-May-14	Nil recharge							251.74
26-Aug-14	Dry							
10-Nov-14	Dry							
25-Feb-15	7-Apr-15	7.14	2420	5.98	6.5	0.12	0.14	252.22
25-May-15	Nil recharge							251.59
31-Aug-15	7-Oct-15	7.10	2430	5.85	6.6	0.10	0.1	251.17
19-Nov-15	17-Dec-15	7.07	2880	7.15	8.5	1.60	0.1	251.51
16-Feb-16	Nil recharge							251.92
31-May-16	Nil recharge							251.16
16-Aug-16	18-Nov-16	6.51	2880	8.01	11.0	0.19	0.06	252.09
9-Nov-16	7-Dec-17	7.04	2470	9.11	9.8	0.20	0.08	253.43
16-Feb-17	17-Mar-17	7.15	2590	8.15	9.0	0.14	0.06	252.41
23-May-17	22-Jun-17	6.72	2470	8.92	9.6	0.12	0.07	251.69
15-Aug-17	14-Sep-17	6.98	2670	8.41	9.2	0.22	0.1	251.26
7-Nov-17	20-Dec-17	7.24	2370	6.48	7.1	0.10	0.11	251.04
27-Feb-18	23-Mar-18	6.76	2750	8.3	8.6	0.16	0.05	251.41
22-May-18	21-Jun-18	6.77	2710	8.83	9.6	0.13	0.09	251.13
30-Aug-18	26-Sep-18	8.3	2510	7.94	8.9	0.14	0.11	250.74
7-Nov-18	8-Jan-19	6.92	3530	9.78	10.4	0.13	0.05	250.71
26-Feb-19	14-Mar-19	6.56	3170	10.7	11.2	0.06	0.04	251.30
14-May-19	26-Jun-19	7.33	3420	10.5	12.6	0.12	0.07	250.66
7-Aug-19	19-Sep-19	6.45	3580	13.1	14.8	0.46	0.07	250.13
13-Nov-19	19-Dec-19	6.64	3230	11.2	13.0	0.11	0.07	250.07
5-Feb-20	2-Apr-20	7.31	3300	13.7	15.6	0.11	0.08	249.75
16-Jun-20	31-Aug-20	6.74	2440	2.33	4.0	0.12	0.12	249.54
9-Sep-20	17-Nov-20	7.45	2290	10.6	11.9	0.09	0.08	250.07
25-Nov-20	11-Dec-20	7.47	2270	10.8	11.6	0.16	0.13	249.92
2-Mar-21	30-Mar-21	7.21	2120	11	12.8	0.13	0.08	249.81

Point 10 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
6-Nov-12	23-Dec-12	6.0	82	0.7	15.7	560	201	36.1
18-Sep-13	4-Dec-13	6.1	78	4.5	24.2	520	284	48.5
10-Nov-14	17-Dec-14	7.2	67	2.9	12.8	950	303	31
19-Nov-15	17-Dec-15	7.5	161	4.8	68.1	1110	371	53.6
9-Nov-16	7-Dec-17	6.85	28	1.2	6	1660	670	176
7-Nov-17	20-Dec-17	8.7	190	3.7	53.6	790	403	68.1
7-Nov-18	8-Jan-19	9.1	0.285	< 0.2	103.0	910	285	76.9
16-May-19	26-Jun-19	7.4	215	< 0.2	87.2	1080	466	31.6
16-May-19	26-Jun-19	7.5	208	< 0.2	81.1	590	310	13.2
16-May-19	26-Jun-19	7.9	111	6.6	56.5	630	340	34.4
16-May-19	26-Jun-19	8	136	21	56.6	370	296	26.2
25-Nov-20	11-Dec-20	5.9	322	< 0.1	233.0	810	308	17.60

Point 11 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
6-Nov-12	23-Dec-12	7.6	105	0.3	13.9	670	295	142.0
18-Sep-13	4-Dec-13	6.2	54	1.7	12.2	810	325	43.5
10-Nov-14	17-Dec-14	6.5	51	2.1	1.4	1700	551	70.3
19-Nov-15	17-Dec-15	7.2	42	1.8	2.2	1340	440	35
9-Nov-16	7-Dec-17	6.7	23	3.5	4.5	1510	569	43.2
7-Nov-17	20-Dec-17	7.9	262	< 0.2	68.3	2030	555	57.3
7-Nov-18	8-Jan-19	6.6	0.408	0.2	174.0	1300	780	76.0
16-May-19	26-Jun-19	6.7	129	1.6	37.1	1970	536	41.4
16-May-19	26-Jun-19	6.9	72	1.5	31.3	1570	509	29.2
16-May-19	26-Jun-19	7	50	1.3	7.9	1010	400	24.4
16-May-19	26-Jun-19	7	61	1.4	8.5	960	416	26.0
25-Nov-20	11-Dec-20	7.1	47	0.6	14.8	1220	452	16.00

Point 12 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
6-Nov-12	23-Dec-12	6.9	167	0.2	39.3	1060	411	88.0
18-Sep-13	4-Dec-13	7.2	439	0.6	71	1200	608	437

10-Nov-14	17-Dec-14	7.7	104	1.1	15.1	880	384	167
19-Nov-15	17-Dec-15	7.5	78	3.2	13	750	382	108
9-Nov-16	7-Dec-17	7.36	225	1	80.1	880	349	83.8
7-Nov-17	20-Dec-17	7.9	82	3.3	0.6	640	406	95.5
7-Nov-18	8-Jan-19	7.9	0.079	< 0.2	3.3	600	785	103.0
16-May-19	26-Jun-19	8.4	155	5.7	15.7	920	436	100.0
16-May-19	26-Jun-19	8.4	102	4.4	14.1	510	296	64.1
16-May-19	26-Jun-19	8.5	126	< 0.2	4.7	340	188	28.3
16-May-19	26-Jun-19	8.4	146	3.4	2.3	340	176	2.9
25-Nov-20	11-Dec-20	8.2	72	< 0.2	7.1	350	203	34.70

Point 13 (Ambient River- Upstream)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate (mgN/L)	Biochemical Oxygen Demand (mg/L)
6-Nov-12	23-Dec-12	7.90	343	0.24	<2
18-Sep-13	4-Dec-13	7.77	357	0.17	8
10-Nov-14	17-Dec-14	7.89	350	0.18	<2
19-Nov-15	17-Dec-15	8.01	474	0.22	3
9-Nov-16	7-Dec-17	7.87	402	0.6	< 2
7-Nov-17	20-Dec-17	7.65	242	0.28	< 2
7-Nov-18	8-Jan-19	7.77	293	0.18	< 2
13-Nov-19	19-Dec-19	7.61	381	0.14	2
5-Feb-20	2-Apr-20	7.84	364	0.47	4
2-Mar-21	30-Mar-21	7.79	297	0.27	2

Point 14 (Ambient River- Midstream)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate (mgN/L)	Biochemical Oxygen Demand (mg/L)
6-Nov-12	23-Dec-12	7.85	345	0.25	<2
18-Sep-13	4-Dec-13	7.87	359	0.17	<2
10-Nov-14	17-Dec-14	7.85	357	0.16	3
19-Nov-15	17-Dec-15	8.04	462	0.21	5
9-Nov-16	7-Dec-17	7.86	404	0.61	< 2
7-Nov-17	20-Dec-17	7.68	265	0.27	< 2
7-Nov-18	8-Jan-19	7.82	293	0.16	< 2
13-Nov-19	19-Dec-19	7.29	373	0.17	< 2
5-Feb-20	2-Apr-20	8.05	427	0.22	2
2-Mar-21	30-Mar-21	7.92	289	0.43	2

Point 17 (Effluent)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Total Dissolved Solids (mg/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Biochemical Oxygen Demand (mg/L)
6-Nov-12	23-Dec-12	7.68	3095	*	*	400
18-Sep-13	4-Dec-13	7.57	2060	364	58.3	273
11-Nov-13	4-Dec-13	8.03	2626	325	54.5	
10-Nov-14	17-Dec-14	7.46	3600	516	80.9	492
19-Nov-15	17-Dec-15	7.66	2440	322	51.2	205
9-Nov-16	7-Dec-17	7.69	5640	442	99	1880
7-Nov-17	20-Dec-17	7.45	5870	837	147	3570
7-Nov-17	20-Dec-17	7.89	4290	476	60.9	563
15-May-19	26-Jun-19	7.68	6020	905	104	4
13-Nov-19	19-Dec-19	8.08	4900	795	52.7	1530
25-Nov-20	11-Dec-20	8.7	9940	469	51.0	663

Point 18 (Groundwater- MP9)

Sampling Frequency		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHD)
31-May-16	24-Jun-16	7.04	1370	1.5	2.1	0.44	< 0.01	248.84
16-Aug-16	18-Nov-16	7.33	1010	1.75	2.0	0.12	0.02	249.30
9-Nov-16	7-Dec-17	7.28	1310	1.18	1.6	0.05	0.03	250.50
16-Feb-17	17-Mar-17	7.31	1060	0.76	1.0	0.05	0.04	250.00
23-May-17	22-Jun-17	7.23	1100	0.72	1.0	0.05	0.03	249.80
15-Aug-17	14-Sep-17	7.21	1030	0.96	1.3	0.06	0.04	249.70
7-Nov-17	20-Dec-17	7.16	1010	0.9	1.3	0.05	0.04	249.63
27-Feb-18	23-Mar-18	7.3	989	1.01	1.3	0.06	0.04	249.55
22-May-18	21-Jun-18	7.44	970	0.82	1.0	0.06	0.05	251.14
30-Aug-18	26-Sep-18	8.54	1030	0.54	0.5	0.05	0.05	249.30
7-Nov-18	8-Jan-19	7.35	932	0.95	1.0	0.05	0.03	248.83
26-Feb-19	14-Mar-19	7.1	841	1.34	1.7	0.03	0.02	249.12
14-May-19	26-Jun-19	7.88	866	1.39	1.6	0.06	0.05	248.97
7-Aug-19	19-Sep-19	7.05	956	1.26	1.6	0.06	0.01	250.42

13-Nov-19	19-Dec-19	7.2	895	1.29	1.7	0.07	0.03	248.73
5-Feb-20	2-Apr-20	7.95	913	1.41	1.9	0.08	0.05	248.40
16-Jun-20	31-Aug-20	7.28	858	1.22	1.5	0.28	0.04	248.28
9-Sep-20	17-Nov-20	7.82	826	2.87	3.5	0.48	0.05	248.56
25-Nov-20	11-Dec-20	7.74	833	2.11	2.3	0.07	0.06	248.52
2-Mar-21	30-Mar-21	7.66	794	1.74	1.9	0.08	0.06	248.26

Point 19 (Groundwater- MP10)

Sampling Frequency		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHD)
31-May-16	24-Jun-16	7.36	5570	2.88	3.5	2.11	0.08	246.92
16-Aug-16	18-Nov-16	7.31	6030	2.98	3.4	0.17	0.13	247.00
9-Nov-16	7-Dec-17	7.57	5950	3.09	3.5	0.18	0.12	247.62
16-Feb-17	17-Mar-17	7.6	6510	3.86	4.1	0.16	0.15	247.58
23-May-17	22-Jun-17	7.49	6180	3.66	4.1	0.28	0.16	247.76
15-Aug-17	14-Sep-17	7.61	6710	3.95	4.4	0.19	0.15	247.80
7-Nov-17	20-Dec-17	7.41	5750	3.95	5.6	0.18	0.18	247.84
27-Feb-18	23-Mar-18	7.57	6080	3.82	4.5	0.17	0.1	247.71
22-May-18	21-Jun-18	7.67	5900	4.18	4.6	0.17	0.13	247.64
30-Aug-18	26-Sep-18	8.4	5620	4	4.5	0.22	0.14	247.68
7-Nov-18	8-Jan-19	7.61	6720	3.95	4.4	0.14	0.13	247.81
26-Feb-19	14-Mar-19	7.37	6090	4.15	4.4	0.08	0.1	246.84
14-May-19	26-Jun-19	7.93	6200	3.68	4.3	0.22	0.16	246.72
7-Aug-19	19-Sep-19	7.3	6230	4.17	4.5	0.19	0.17	248.87
13-Nov-19	19-Dec-19	7.47	5840	3.93	4.6	0.42	0.12	246.52
5-Feb-20	2-Apr-20	8.06	6160	3.92	4.8	0.28	0.18	246.69
16-Jun-20	31-Aug-20	7.65	5220	3.86	5.7	0.22	0.23	245.84
9-Sep-20	17-Nov-20	7.97	5230	4.46	5.3	0.26	0.17	246.61
25-Nov-20	11-Dec-20	7.97	5620	4.61	5.2	0.19	0.15	246.55
2-Mar-21	30-Mar-21	7.95	5350	5.05	5.6	0.25	0.17	246.01

Point 20 (Groundwater- MP11)

Sampling Frequency		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate as N (mgN/L)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Available Phosphorus (mgP/L)	Standing Water Level (mAHD)
31-May-16	24-Jun-16	7.08	1160	1.73	1.9	0.14	0.09	248.00
16-Aug-16	18-Nov-16	6.84	970	1.42	2.0	0.13	0.07	248.63
9-Nov-16	7-Dec-17	7.24	731	3.37	4.3	0.11	0.11	252.68
16-Feb-17	17-Mar-17	7.21	575	5.52	6.2	0.17	0.13	250.31
23-May-17	22-Jun-17	7.1	531	5.47	6.0	0.18	0.13	250.13
15-Aug-17	14-Sep-17	7.26	628	4.08	4.9	0.15	0.13	249.37
7-Nov-17	20-Dec-17	6.98	811	3.61	3.8	0.10	0.12	249.16
27-Feb-18	23-Mar-18	7.12	990	4.28	5.0	0.11	0.06	249.01
22-May-18	21-Jun-18	7.13	967	4.66	5.2	0.12	0.12	248.79
30-Aug-18	26-Sep-18	8.46	977	4.98	5.9	0.10	0.11	248.65
7-Nov-18	8-Jan-19	7.17	965	5.27	6.0	0.08	0.08	248.57
26-Feb-19	14-Mar-19	6.94	874	5.7	6.2	0.06	0.08	248.44
14-May-19	26-Jun-19	7.69	896	5.42	6.5	0.12	0.1	248.29
7-Aug-19	19-Sep-19	6.95	967	5.3	6.1	0.11	0.13	248.23
13-Nov-19	19-Dec-19	7.03	901	5.46	5.9	0.10	0.09	248.12
5-Feb-20	2-Apr-20	7.77	880	5.36	7.1	0.13	0.12	248.01
16-Jun-20	31-Aug-20	7.25	782	1.44	2.6	0.33	0.16	248.29
9-Sep-20	17-Nov-20	7.45	821	4.01	6.9	0.50	0.39	248.62
25-Nov-20	11-Dec-20	7.59	783	3.93	4.3	0.10	0.1	248.21
2-Mar-21	30-Mar-21	7.93	758	4.54	5.2	0.12	0.1	248.11

Point 21 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
16-Feb-17	17-Mar-17	6.7	200	4.2	63.2	1620	387	36.8
7-Nov-17	20-Dec-17	7.1	135	1.8	36.5	690	286	19.0
7-Nov-18	8-Jan-19	6.4	0.393	0.4	188.0	1290	450	41.0
16-May-19	26-Jun-19	6.8	204	7.9	162.0	960	322	20.2
16-May-19	26-Jun-19	7	300	7.4	154.0	710	331	13.4
16-May-19	26-Jun-19	7.1	232	5.4	99.6	510	317	27.6
16-May-19	26-Jun-19	7.1	142	3.9	96.4	420	331	26.9
25-Nov-20	11-Dec-20	5.8	398	0.3	249.0	1260	269	10.50

Point 22 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
16-Feb-17	17-Mar-17	6.8	114	4.2	51.9	1160	308	29

7-Nov-17	20-Dec-17	7.6	188	3.1	55.8	1320	361	50.9
7-Nov-18	8-Jan-19	8.1	0.191	< 0.2	50.7	1060	286	38.9
16-May-19	26-Jun-19	8.3	149	5.3	29.1	700	235	25.4
16-May-19	26-Jun-19	8	145	3.5	16.7	740	244	10.1
16-May-19	26-Jun-19	7.7	126	5.4	20.1	500	207	2.3
16-May-19	26-Jun-19	7.8	156	< 0.2	14.1	500	201	2.2
25-Nov-20	11-Dec-20	8.1	103	< 0.2	21.9	370	147	9.80

Point 23 (Soil)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Exchangeable Sodium Percentage (%)	Nitrate (mgN/kg)	Total Nitrogen (mg/kg)	Total Phosphorus (mg/kg)	Available Phosphorus (Fluoride Extractable Bray) (mg/kg)
16-Feb-17	17-Mar-17	6.5	165	4.3	80.6	1560	452	47.6
7-Nov-17	20-Dec-17	7.1	219	5.5	45.9	1050	320	45.4
7-Nov-18	8-Jan-19	6.9	0.361	0.6	103.0	1270	441	46.7
16-May-19	26-Jun-19	8	210	5.3	87.9	1320	364	57.3
16-May-19	26-Jun-19	7.8	216	2.5	64.7	580	199	7.0
16-May-19	26-Jun-19	7.2	216	6.2	59.9	760	231	5.7
16-May-19	26-Jun-19	7.5	118	2.7	52.1	670	220	3.2
25-Nov-20	11-Dec-20	8.3	185	< 0.2	32.0	1200	452	23.20

Point 24 (Ambient River- Downstream)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate (mgN/L)	Biochemical Oxygen Demand (mg/L)
16-Feb-17	17-Mar-17	7.68	254	0.43	2
7-Nov-17	20-Dec-17	7.69	208	0.27	< 2
7-Nov-18	8-Jan-19	7.81	296	0.17	< 2
5-Feb-20	2-Apr-20	7.86	378	0.6	4
2-Mar-21	30-Mar-21	8.01	294	0.39	< 2

Point 25 (Ambient Creek- Goonigal Creek)

Sampling Frequency		Yearly	Yearly	Yearly	Yearly
Date Sampled	Date Obtained	pH (pH units)	Electrical Conductivity (µS/cm)	Nitrate (mgN/L)	Biochemical Oxygen Demand (mg/L)
23-May-17	22-Jun-17	7.76	337	0.05	< 2
7-Nov-17	20-Dec-17	7.76	337	0.05	< 2
7-Nov-18	Dry				
13-Nov-19	Dry				
5-Feb-20	Dry				
16-Jun-20	31-Aug-20	6.82	163	0.09	< 2
2-Mar-21	Dry				