



January 2025 - Groundwater, Surface Water and Surface Gas Monitoring Analytical Results

Field						Inorganics					Physical	
Methane	Depth to groundwater (measured)	DO (Field)	Electrical Conductivity (Non Compensated)	pH (Field)	Temp (Field)	Ammonia as N	Alkalinity (total) as CaCO3	Nitrate (as N)	TOC	Iron (filtered)	TSS	
ppm	m	mg/L	µS/cm	-	oC	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
EQL	5	0.01	0.01	1	0.01	0.1	0.01	1	0.01	1	0.05	5

Site ID	EPL No.	Location Code	Sampled Date	Methane	Depth to groundwater (measured)	DO (Field)	Electrical Conductivity (Non Compensated)	pH (Field)	Temp (Field)	Ammonia as N	Alkalinity (total) as CaCO3	Nitrate (as N)	TOC	Iron (filtered)	TSS
Buttonderry	1	B_BTU	16 Jan 2025	-	-	3.32	110.7	7.64	22.1	0.01	11	0.03	12	0.96	1,410
Buttonderry	2	B_BTM	16 Jan 2025	-	-	1.78	5,546	6.54	21.8	1.08	12	<0.01	30	17.5	146
Buttonderry	3	B_BTD	16 Jan 2025	-	-	1.49	1,385	7.23	25.2	1.14	166	1	20	0.18	<5
Buttonderry	4	B_BT20	16 Jan 2025	-	1.01	1.25	10,281	6.42	19.6	0.25	485	0.02	10	2.1	-
Buttonderry	5	B_BT19	13 Jan 2025	-	0.65	0.78	11,360	6.55	18.3	0.1	613	<0.01	<1	<0.05	-
Buttonderry	6	B_BT17	16 Jan 2025	-	3.21	1.32	14,460	6.53	19	<0.01	640	<0.01	1	0.42	-
Buttonderry	7	B_BT16	13 Jan 2025	-	2.16	1.98	11,111	6.58	18.2	0.03	677	<0.01	1	0.11	-
Buttonderry	9	B_BT4	13 Jan 2025	-	1.9	0.92	13,968	5.86	19.3	0.4	150	<0.01	2	36.2	-
Buttonderry	11	B_BT3	13 Jan 2025	-	1.94	1.02	14,550	5.78	19.8	0.42	156	<0.01	3	40	-
Buttonderry	12	B_TB1	16 Jan 2025	-	1.58	1.56	1,497	7.19	21.6	6.52	758	<0.01	<1	4.29	-
Buttonderry	13	B_TB2	16 Jan 2025	-	1.87	2.85	9,758	5.94	21.6	0.11	151	<0.01	4	<0.05	-
Buttonderry	14	B_B	16 Jan 2025	-	4.29	1.75	13,590	6.16	19.6	0.06	185	<0.01	2	9.14	-
Buttonderry	15	Area 1	30 Jan 2025	<5*	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	16	Area 2	30 Jan 2025	230*	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	17	Area 3	30 Jan 2025	12,200*	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	18	Gatehouse	30 Jan 2025	<5*	-	-	-	-	-	-	-	-	-	-	-
Buttonderry	19	B_Discharge Point 1	16 Jan 2025	-	-	3.37	449.6	7.34	21.7	0.09	-	-	7	-	-
Buttonderry	20	B_Discharge Point 2	16 Jan 2025	-	-	2.69	1,393	7.35	26.1	1.48	-	-	19	-	-
Buttonderry	22	B_101S	16 Jan 2025	-	3.59	5.91	15,995	6.09	21.2	0.02	224	<0.01	8	1.49	-
Buttonderry	23	B_102S	16 Jan 2025	-	2.69	3.77	5,928	4.98	20.5	0.04	7	<0.01	22	<0.05	-
Buttonderry	24	B_103D	16 Jan 2025	-	2.88	3.02	5,892	5.47	22.2	0.14	77	0.03	62	<0.05	-
Buttonderry	25	B_104S	16 Jan 2025	-	3.67	2.26	1,641	6.71	21.5	0.07	407	0.2	43	3.17	-
Buttonderry	26	B_105S	13 Jan 2025	-	1.67	1.94	2,826	6.62	22.6	0.75	538	<0.01	98	25.3	-
Buttonderry	27	B_617S	13 Jan 2025	-	2.46	1.43	11,317	5.16	20.5	0.16	116	<0.01	22	12.7	-
Buttonderry	28	B_613s	16 Jan 2025	-	4.12	1.69	8,130	5.78	19.5	0.27	136	0.03	212	49.6	-
Buttonderry	29	B_902	13 Jan 2025	-	2.66	3.46	13,222	6.62	19.5	0.02	594	0.02	<1	<0.05	-
Buttonderry	30	B_901	13 Jan 2025	-	5.58	1.36	10,154	6.64	19.7	0.02	618	<0.01	2	0.16	-
Buttonderry	31	B_110D	13 Jan 2025	-	3.87	2.18	12,828	6.36	19.7	0.02	481	<0.01	11	0.1	-
Buttonderry	32	B_111S	16 Jan 2025	-	3.471	1.88	12,689	5.96	19.3	0.15	83	<0.01	19	12.5	-
Buttonderry	33	B_112D	13 Jan 2024	-	2.57	1.7	10,842	4.57	19.7	0.11	54	<0.01	8	8.7	-
Buttonderry	34	B_113s	16 Jan 2025	-	1.94	0.94	4,517	6.18	20.1	0.82	302	0.03	28	26	-

Notes: * denotes maximum concentration recorded within monitoring area.

^ denotes reading collected from sewer sump outside of office building

NT denotes 'not tested', Laboratory error, field pH was collected

A copy of the Environment Protection Licence (EPL) can be viewed at:

[5955.pdf \(nsw.gov.au\)](https://www.nsw.gov.au/5955.pdf)

Condition M2.2 - Air Monitoring Requirements - Monthly Surface Gas

Condition M2.3 - Water and/ or Land Monitoring Requirements - Quarterly/

Yearly Groundwater and Surface Water

Date pollution monitoring data was obtained by licensee: 20/02/2025