Liddell Coal - Monthly Environmental Summary

December 2025

LIDDELL

GLENCORE

1. Dust Gauges

Table 1: Dust Deposition Results – 5 November to 5 December 2025 (30 Days)

Site	Monthly Insoluble Solids *(g/m^2.month)*	Monthly Ash Residue *(g/m^2.month)*	Monthly Combustible Matter *(g/m^2.month)*	Monthly Ash Residue/ Insoluble Solids *(%)*	12 Month Rolling Average Insoluble Solids *(g/m^2.month)*
D55**	3.1	2.1	1.0	68	3.0
D62**	1.5	1.0	0.5	67	1.3

Notes:

** Gauges D55 and D62 are located on privately owned land and are the only gauges that have consent criteria.

Insoluble Solids results marked with a ‘c’ indicate an excessively contaminated gauge and are not included in the project average. Contamination can include bird droppings, vegetation (such as plant matter, algae, pollen, seeds) and insects.

The twelve-month rolling annual average is calculated from January 2025 to December 2025.

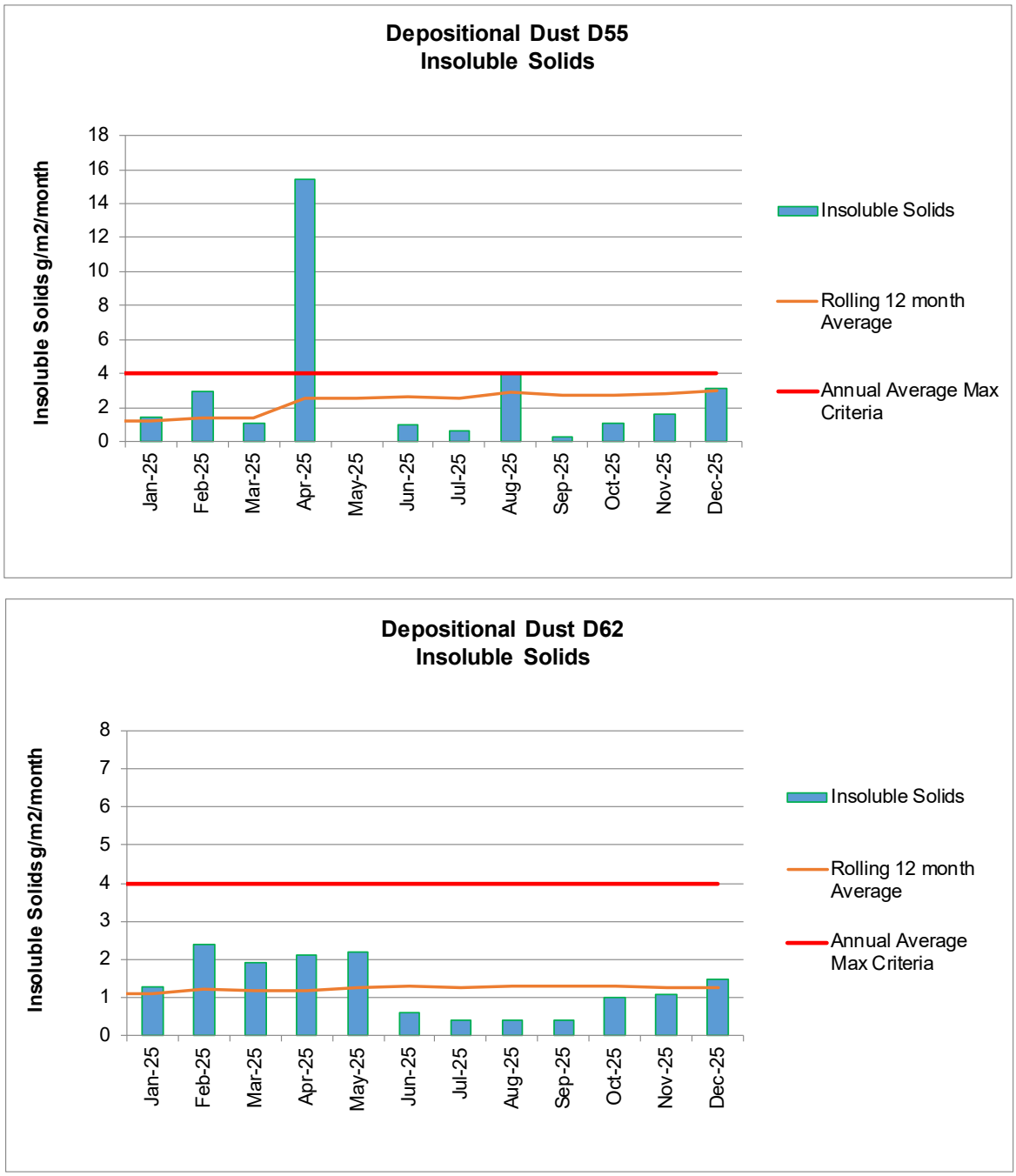


Figure 1.1: Depositional dust gauge sites D55 & D62 (Privately-owned land) – Monthly and annual average insoluble solids

2. High Volume Air Samplers

Table 2: High Volume Air Sampling Results – December 2025

Date	Scriven**		Antiene**	
	PM_{10}	**TSP**	**PM_{10}**	**TSP**
2-Dec-25	14.5	31.0	15.6	35.8
8-Dec-25	45.8	95.2	38.8	74.1
14-Dec-25	17.1	36.6	19.4	35.4
20-Dec-25	23.5	52.6	28.2	56.0
26-Dec-25	12.2	29.9	12.7	28.0
24-hour maximum criteria	**≤ 50**	**N/A**	**≤ 50**	**N/A**
Rolling Annual Average	11.6	29.9	15.0	33.9
Annual Average Criteria	**≤ 30**	**≤ 90**	**≤ 30**	**≤ 90**

Notes:

^Monitoring periods determined to be impacted by extraordinary regional conditions under Note D of Schedule 3 Condition 16 by DPIE. Results are excluded from rolling annual average.
TSP =Total Suspended Particulates.
PM_{10} = fine particulates with a mean aerodynamic diameter of <10µm
N/A = Not Applicable.
Particulates are the total recorded, not specifically project generated.
Results shaded yellow indicate non-conformance with impact criteria.
*** Scriven and Antiene units are located on privately owned land.*

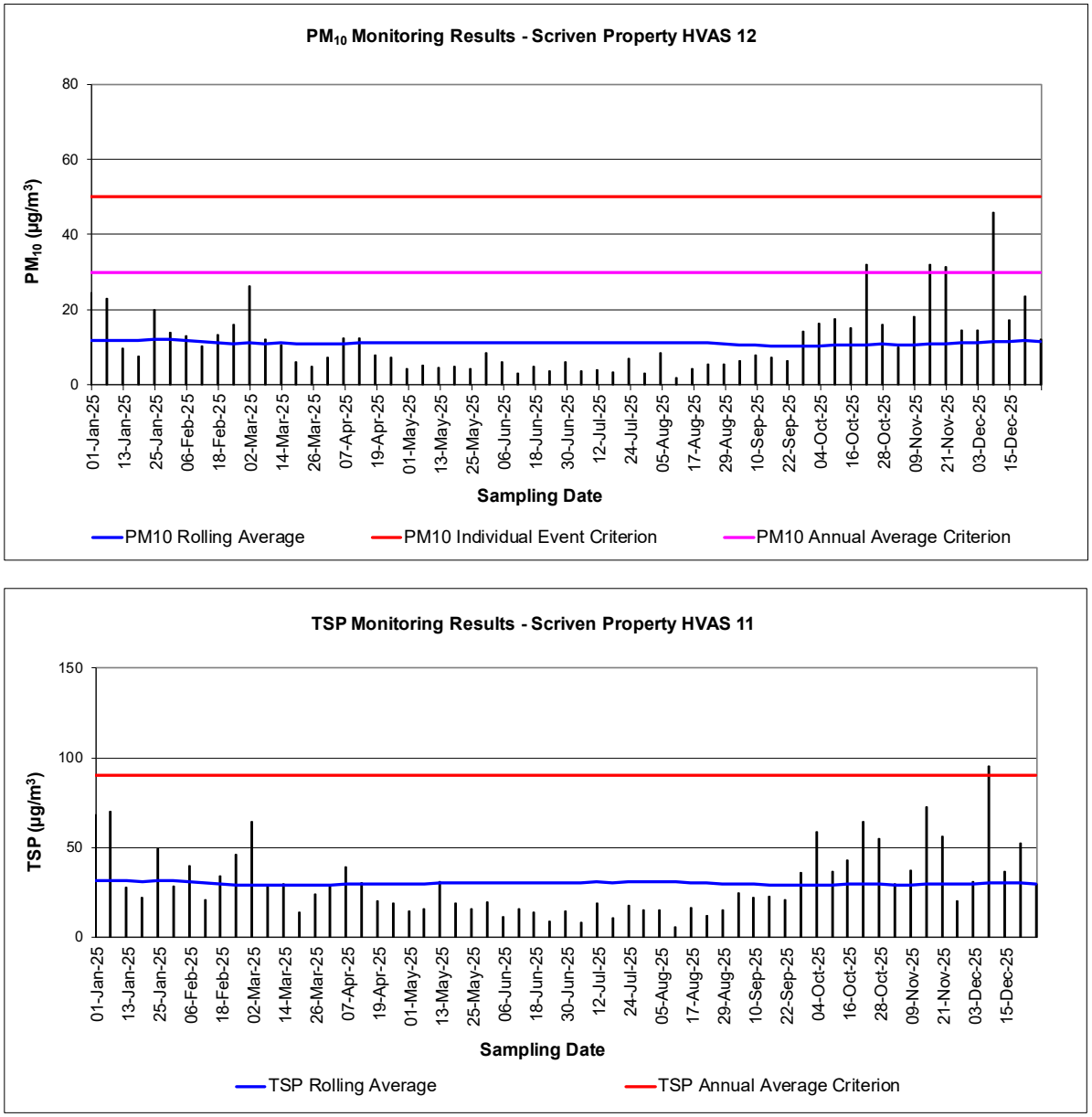


Figure 2.1: PM_{10} and TSP results and annual average for Scriven HVAS.

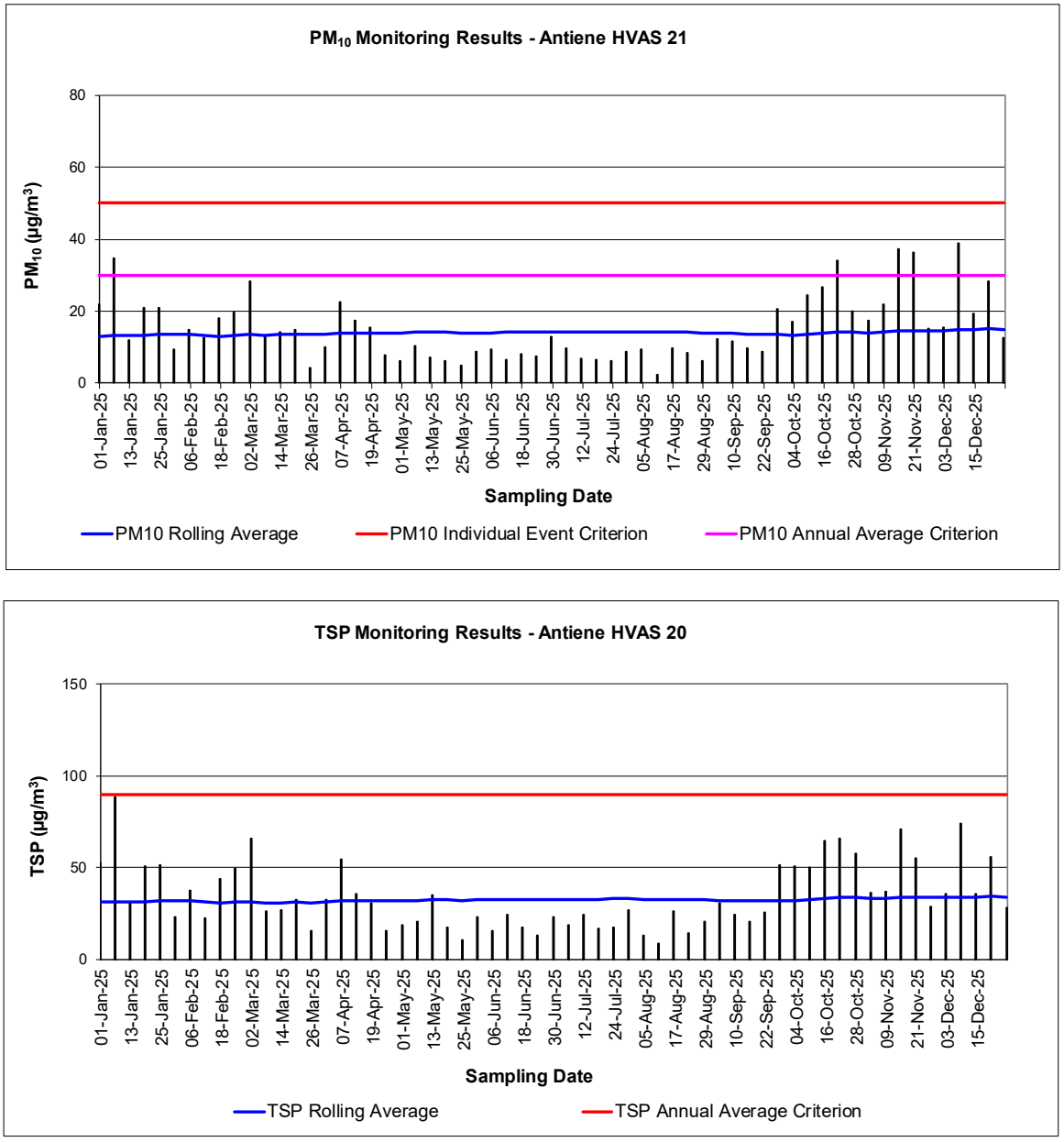


Figure 2.2: PM_{10} and TSP results and annual average for Antiene HVAS.

3. Continuous TEOM PM10

Table 3: TEOM PM_{10} Monitoring Results

Date	SX38-D1		SX38-D2		PM10 24hr Average Criteria	PM10 Rolling Annual Average Criteria
	PM10 24hr Average	PM10 Rolling Annual Average	PM10 24hr Average	PM10 Rolling Annual Average		
1/12/2025	28.4	14.6	32.6	16.7	50	30
2/12/2025	11.8	14.6	13.8	16.7	50	30
3/12/2025	17.1	14.6	21.1	16.7	50	30
4/12/2025	13.7	14.6	20.6	16.7	50	30
5/12/2025	27.7	14.6	22.9	16.7	50	30
6/12/2025	26.0	14.6	29.9	16.8	50	30
7/12/2025	26.2	14.7	27.3	16.8	50	30
8/12/2025	35.0	14.7	34.0	16.8	50	30
9/12/2025	39.2	14.8	39.8	16.9	50	30
10/12/2025	36.8	14.9	36.1	17.0	50	30
11/12/2025	16.3	14.9	16.5	16.9	50	30
12/12/2025	14.1	14.9	13.1	16.9	50	30
13/12/2025	11.4	14.8	13.7	16.9	50	30
14/12/2025	12.3	14.8	14.6	16.8	50	30
15/12/2025	38.4	14.8	39.8	16.8	50	30
16/12/2025	20.7	14.8	19.8	16.8	50	30
17/12/2025	21.1	14.8	19.8	16.8	50	30
18/12/2025	19.4	14.8	23.7	16.8	50	30
19/12/2025	22.6	14.8	24.9	16.9	50	30
20/12/2025	19.0	14.9	23.4	16.9	50	30
21/12/2025	23.3	14.9	29.4	16.9	50	30
22/12/2025	12.6	14.9	14.9	16.9	50	30
23/12/2025	21.1	14.9	22.9	16.9	50	30
24/12/2025	25.6	14.9	28.1	16.9	50	30
25/12/2025	18.9	14.9	21.1	16.9	50	30
26/12/2025	11.1	14.9	12.3	16.9	50	30
27/12/2025	10.9	14.9	12.7	16.8	50	30
28/12/2025	14.5	14.9	16.2	16.8	50	30
29/12/2025	14.1	14.8	17.1	16.8	50	30
30/12/2025	16.1	14.8	21.0	16.8	50	30
31/12/2025	23.9	14.8	24.4	16.8	50	30

Results shaded yellow indicate non-conformance with impact criteria.

4. Surface Water

Table 4: Monthly Surface Water Monitoring – Bowmans Creek – 8 December 2025

Site	Flow Rate	pH	EC (*µS/cm*)	TDS (*mg/L*)	TSS (*mg/L*)	Turbidity (*NTU*)	Odour	Colour/ Turbidity
BCK1 (Bowmans Creek Up)	Still	7.54	847	477	<5	0.9	Nil	Colourless/Clear
BCK1A	Still	7.90	1700	1050	7	1.7	Nil	Colourless/Clear
BCK2	Still	7.80	966	566	8	12.0	Nil	Colourless/Clear
BCK2A	Still	7.54	780	468	<5	0.5	Nil	Colourless/Clear
BCK3	Trickle	8.08	833	484	<5	2.2	Nil	Colourless/Clear
BCK4	Trickle	7.92	876	506	<5	4.3	Nil	Colourless/Clear
BCK5	Too low to sample							
BCK6 (Bowmans Creek Down)	Trickle	7.29	793	461	6	2.5	Nil	Colourless/Clear
TRIGGER – FLOWING [1]		**6.5-8.3**	**2020**	**1210**	**50**	**N/A**	**N/A**	**N/A**
TRIGGER – NO FLOW [2]		**6.5-8.8**	**4570**	**3460**	**97**	**N/A**	**N/A**	**N/A**

Notes:
[1] Liddell Coal Water Management Plan 90th %tile trigger levels
[2] Liddell Coal Water Management Plan Max trigger levels
Results shaded yellow indicate non-conformance to trigger levels

Table 5: Monthly Surface Water Monitoring – Bayswater Creek – 8 December 2025

Site	Flow Rate	pH	EC (*µS/cm*)	TDS (*mg/L*)	TSS (*mg/L*)	Turbidity (*NTU*)	Odour	Colour/ Turbidity
BWKU (Bayswater Creek Up)	Still	8.26	7300	5000	18	2.8	Nil	Colourless/Clear
BWKM (Bayswater Creek Mid)	Still	8.09	7390	5190	15	3.0	Nil	Colourless/Clear
BWKD (Bayswater Creek Down)	Dry							
TRIGGER – FLOWING [1]		**6.5-8.3**	**5130**	**3230**	**50**	**N/A**	**N/A**	**N/A**
TRIGGER – NO FLOW [2]		**6.5-8.5**	**7300**	**5180**	**302**	**N/A**	**N/A**	**N/A**

Notes: Trigger levels apply to Bayswater Creek Downstream site only
[1] Liddell Coal Water Management Plan 90th %tile trigger levels
[2] Liddell Coal Water Management Plan Max trigger levels
Results shaded yellow indicate non-conformance to trigger levels

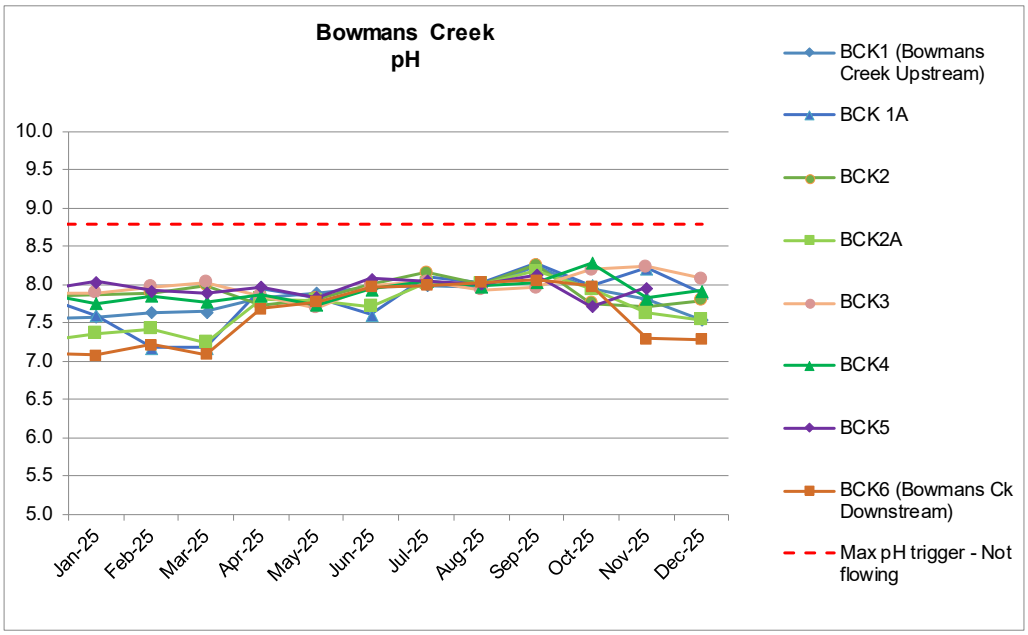
Table 6: Monthly Surface Water Monitoring – Onsite Dams – 8 December 2025

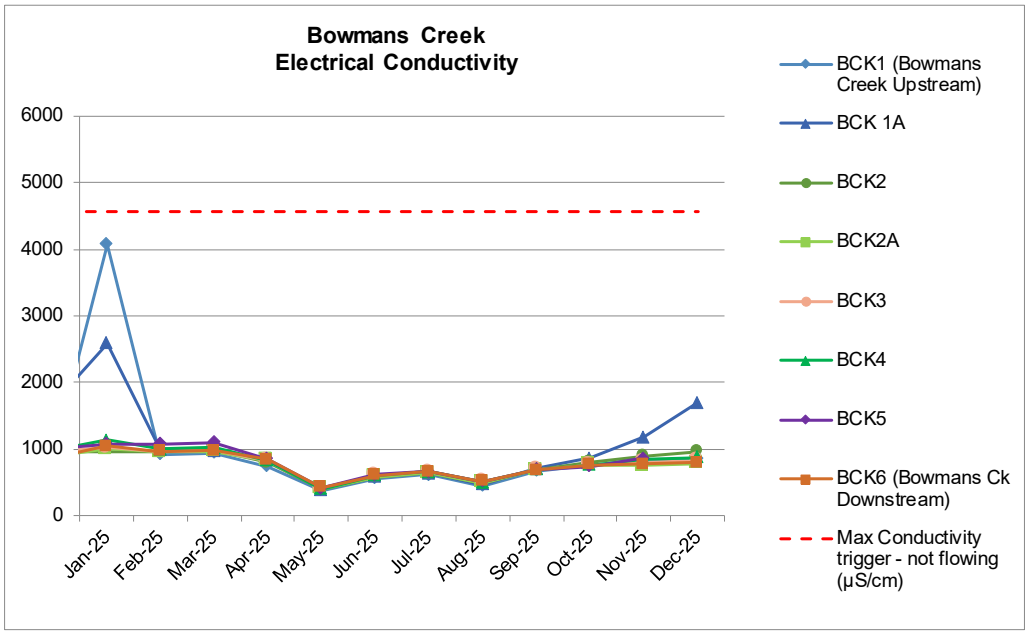
Site	pH	EC *(µS/cm)*	TDS *(mg/L)*	TSS *(mg/L)*	Thermotolerant Coliforms *(CFU/100mL)*	Odour	Colour/ Turbidity
Dam 1	8.60	807	474	<5		Nil	Colourless/Clear
Dam 3	9.10	2050	1300	<5		Nil	Colourless/Clear
Dam 4	8.95	1600	932	<5		Nil	Colourless/Clear
Dam 5	8.56	4050	2900	10		Nil	Colourless/Clear
Dam 6	7.99	5740	4290	12		Nil	Colourless/Clear
Dam 17	8.92	5490	3860	16		Nil	Colourless/Clear
MBE	9.55	756	498	15		Nil	Green/clear
Reservoir Dam North	8.67	3930	2470	<5	~40	Nil	Colourless/Clear
Triangle Dam Upper[1]							
Triangle Dam Lower[1]							

Notes:

[1] Sampled Biannually (January and July)

~ Indicates an estimated value





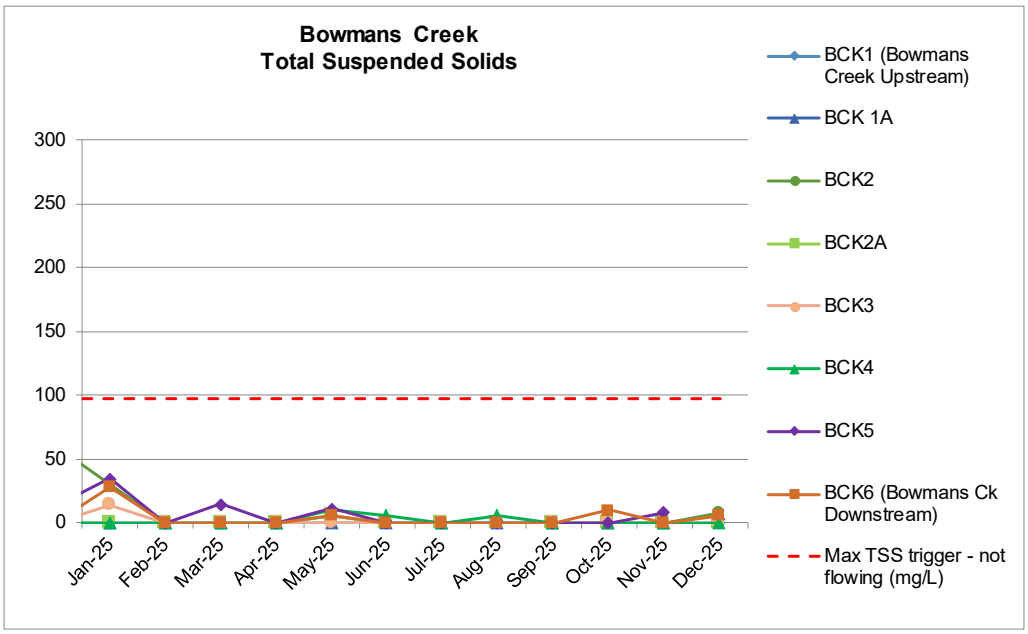
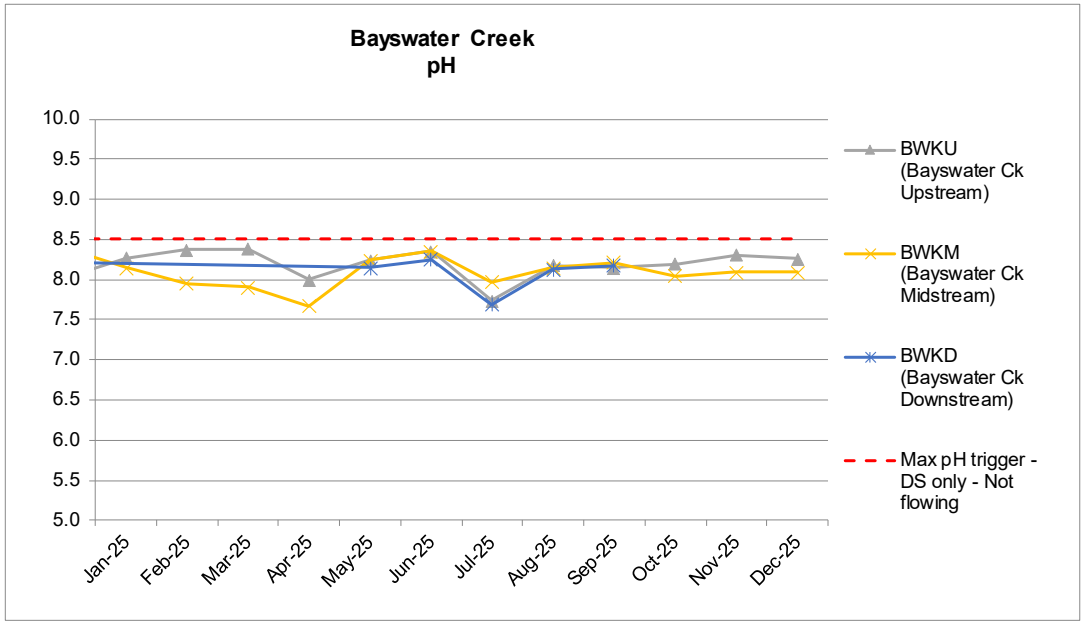
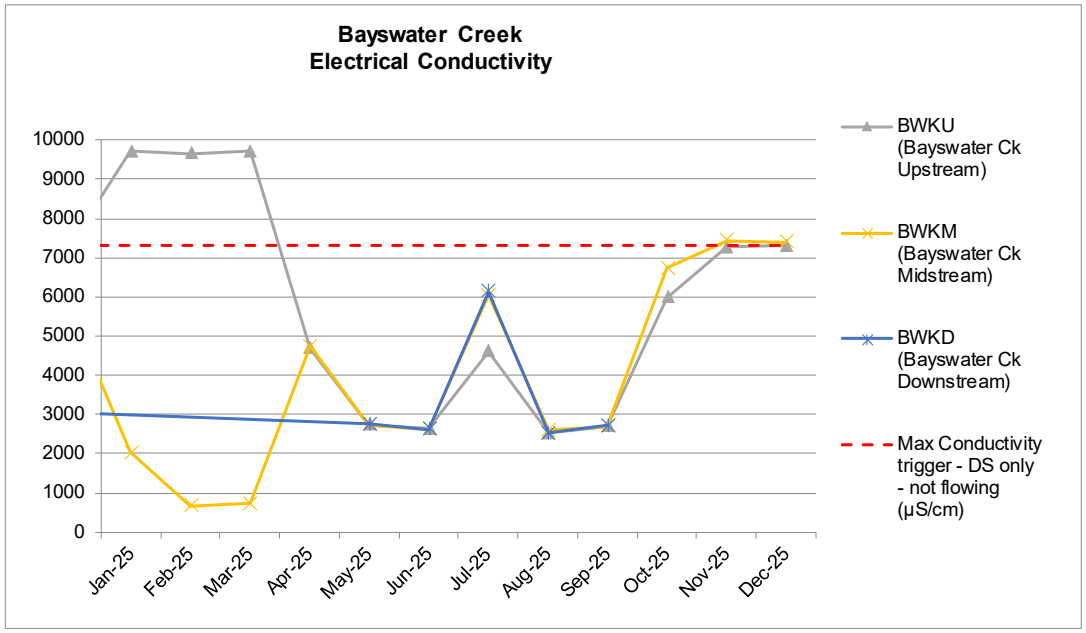


Figure 4.1: pH, Electrical Conductivity and Total Suspended Solids results for Bowmans Creek





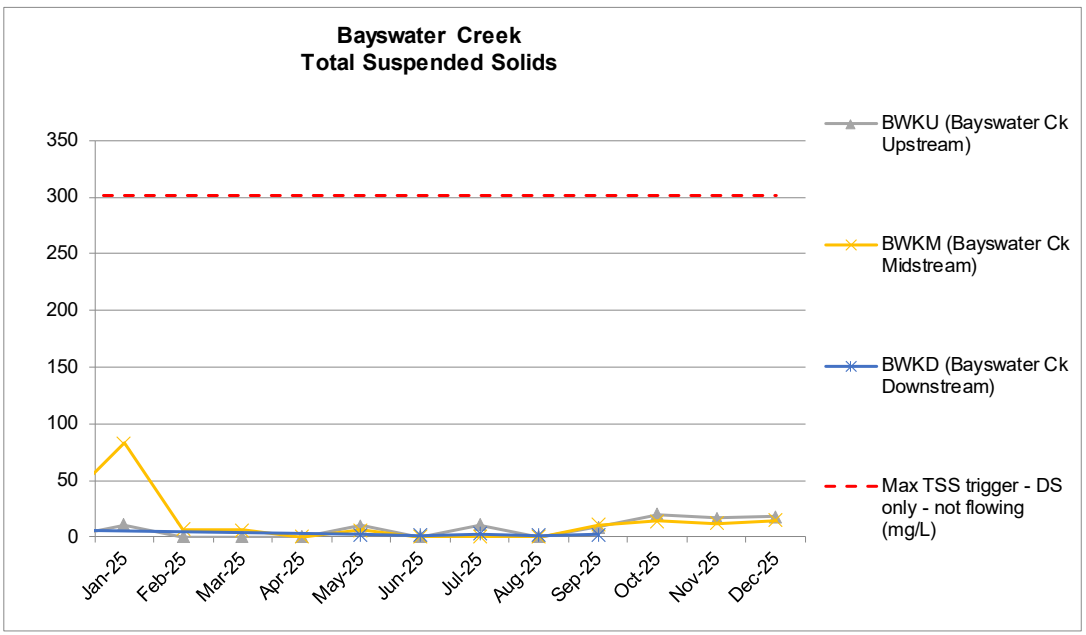
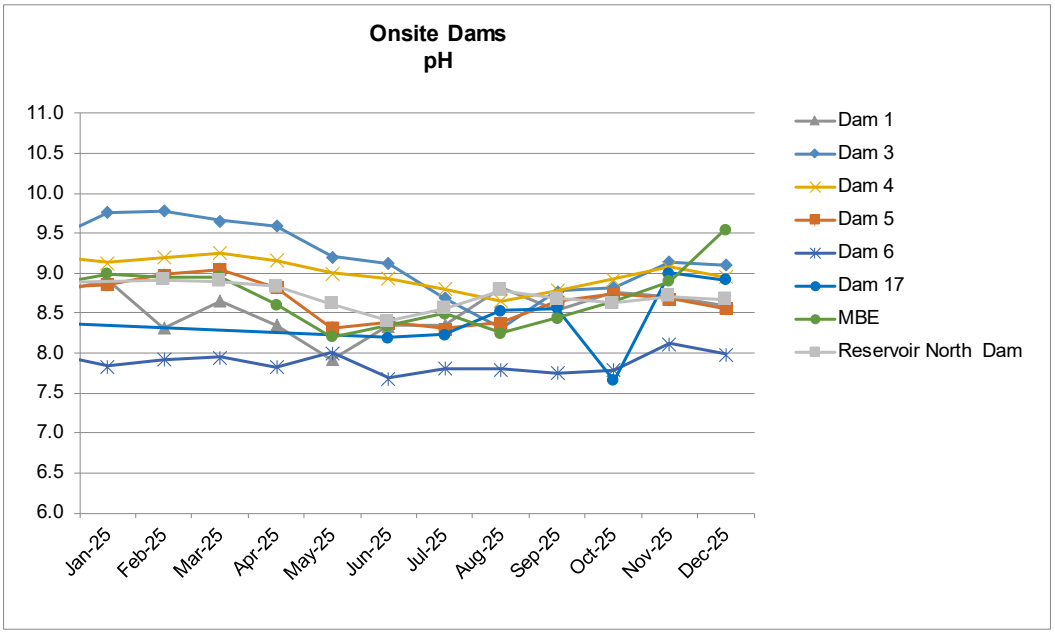
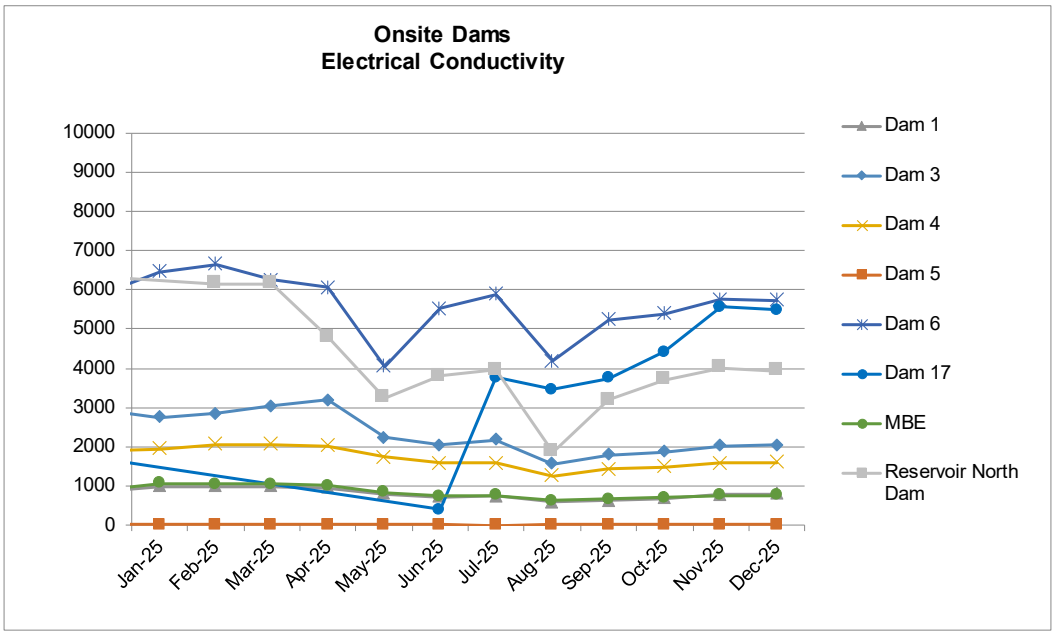


Figure 4.2: pH, Electrical Conductivity and Total Suspended Solids results for Bayswater Creek





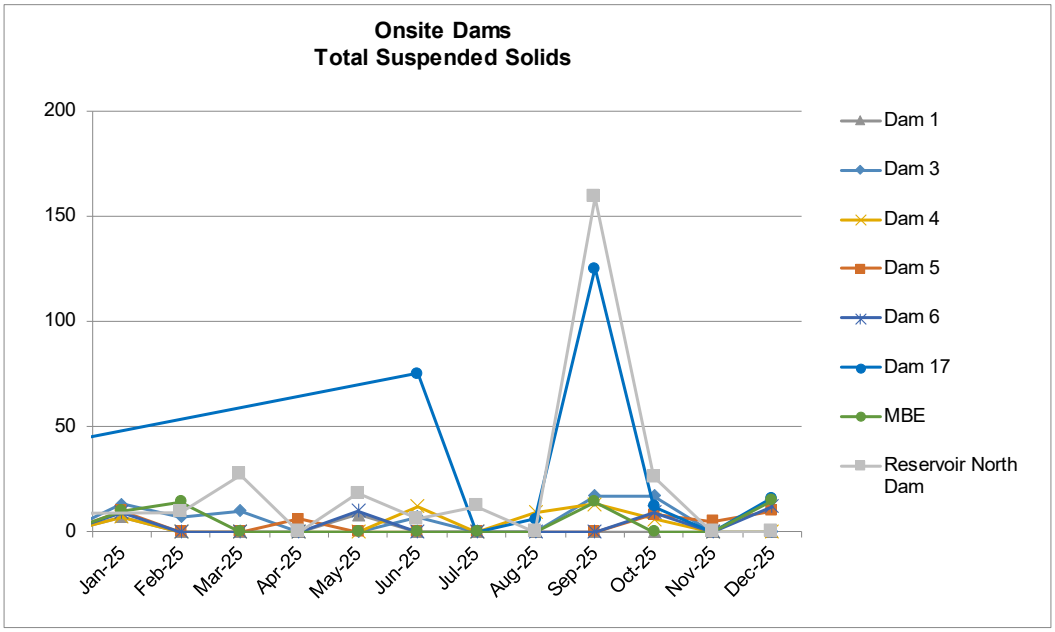


Figure 4.3: pH, Electrical Conductivity and Total Suspended Solids results for On-Site Dams

5. Sewage Treatment Plants

Table 7: Laboratory STP Water Quality Results: 3 December 2025 (Part 1)

Site	Lab pH	Lab EC *(µS/cm)*	TSS *(mg/L)*	Turbidity *(NTU)*	Ammonia *(mg/L)*	Nitrite *(mg/L)*	Nitrate *(mg/L)*	Nitrite + Nitrate as N *(mg/L)*
O/C Dirty Water Transfer Tank (DWTT)	8.85	4950	<5	2.8	0.27	0.22	6.32	6.54
O/C Chlorine Contact Tank (CCT)	8.55	4800	<5	1.0	<0.05	<0.05	6.65	6.65
O/C Tank 1								
O/C Final Discharge (FD)	8.31	4810	27	15.0	<0.05	<0.05	6.74	6.74

Notes:
Cells which are shaded grey are not required to be tested.

Table 8: Laboratory STP Water Quality Results: 3 December 2025 (Part 2)

Site	Total Kjeldahl Nitrogen as N *(mg/L)*	Total Nitrogen as N (mg/L)	Total Phosphorus as P *(mg/L)*	Reactive Phos. *(mg/L)*	BOD *(mg/L)*	E. coli *(CFU/100mL)*	Thermotolerant Coliforms *(CFU/100mL)*
O/C Dirty Water Transfer Tank (DWTT)	3.2	9.8	13.2	11.9	3	~<10	~30
O/C Chlorine Contact Tank (CCT)	2.4	9.0	13	11.9		<2	<2
O/C Tank 1							
O/C Final Discharge (FD)	2.3	9.1	13.1	11.7	<2	<2	<2

Notes:
Cells which are shaded grey are not required to be tested.
~ Indicates an estimated value

Table 9: Field STP Water Quality Results: 3 December 2025

Site	Field Temp (˚C)	Field pH	Free Cl (mg/L)	Dissolved O_2 (mg/L)	Colour	Turbidity	Odour
O/C Dirty Water Transfer Tank (DWTT)	18.1	8.87	0.07	3.47	Colourless	Slight	Nil
O/C Chlorine Contact Tank (CCT)	24.6	8.44	4.82		Colourless	Slight	Nil
O/C Tank 1	26.6	8.62		7.67	Brown	Slight	Nil
O/C Final Discharge (FD)	24.0	8.32	>5.00	8.02	Colourless	Slight	Nil

Notes:
Cells which are shaded grey are not required to be tested.

6. Groundwaters

Table 10: Monthly Groundwater monitoring – 8 December 2025

`	**Depth TOC to Water** *(m)*	**Field pH**	**Field EC** *(µS/cm)*	**Yield** *(ML)*
ALV1 Large	3.50	7.25	1047	
ALV1 Small	2.95	7.97	1281	
ALV2 Large	4.37	7.46	1324	
ALV2 Small	4.11	7.84	2870	
ALV3 Large	4.81	7.17	756.8	
ALV3 Small	5.06	7.71	1389	
ALV4 Large	4.82	6.91	2704	
ALV4 Small	5.61	7.63	5210	
PGW5 Large	11.22	7.51	4070	
PGW5 Small	10.39	7.21	5700	
ALV7 Large	6.42	7.33	1327	
ALV7 Small	14.28	7.59	3130	
ALV8 Large	7.32	7.18	695.2	
ALV8 Small	16.08	7.36	1209	
ALV9 Large	3.68	7.47	839.9	
SB01	7.98	7.34	709.2	
SB02	Dry at 7.40m			
SB03	6.26	Too Low to Sample		
SB04	23.81	7.41	6070	
LBH	3.90	7.14	792.3	
Haz 4	55.88	9.89	3040	
Haz 6	47.01	8.24	4330	
M49	112.43			TBA
Haz 1/2	58.33			TBA
Coffey Dam Borehole	TBA			

Notes:
Site Specific investigation trigger limits are detailed in the Liddell Coal Operations Water Management Plan which is available on the Liddell Coal Website.
Results highlighted yellow identify a monitoring result applicable to an investigation trigger limit.
Sites with yield not applicable are for groundwater monitoring purposes only.
TBA = To be advised – depth/results provided by site
NR = Not recorded

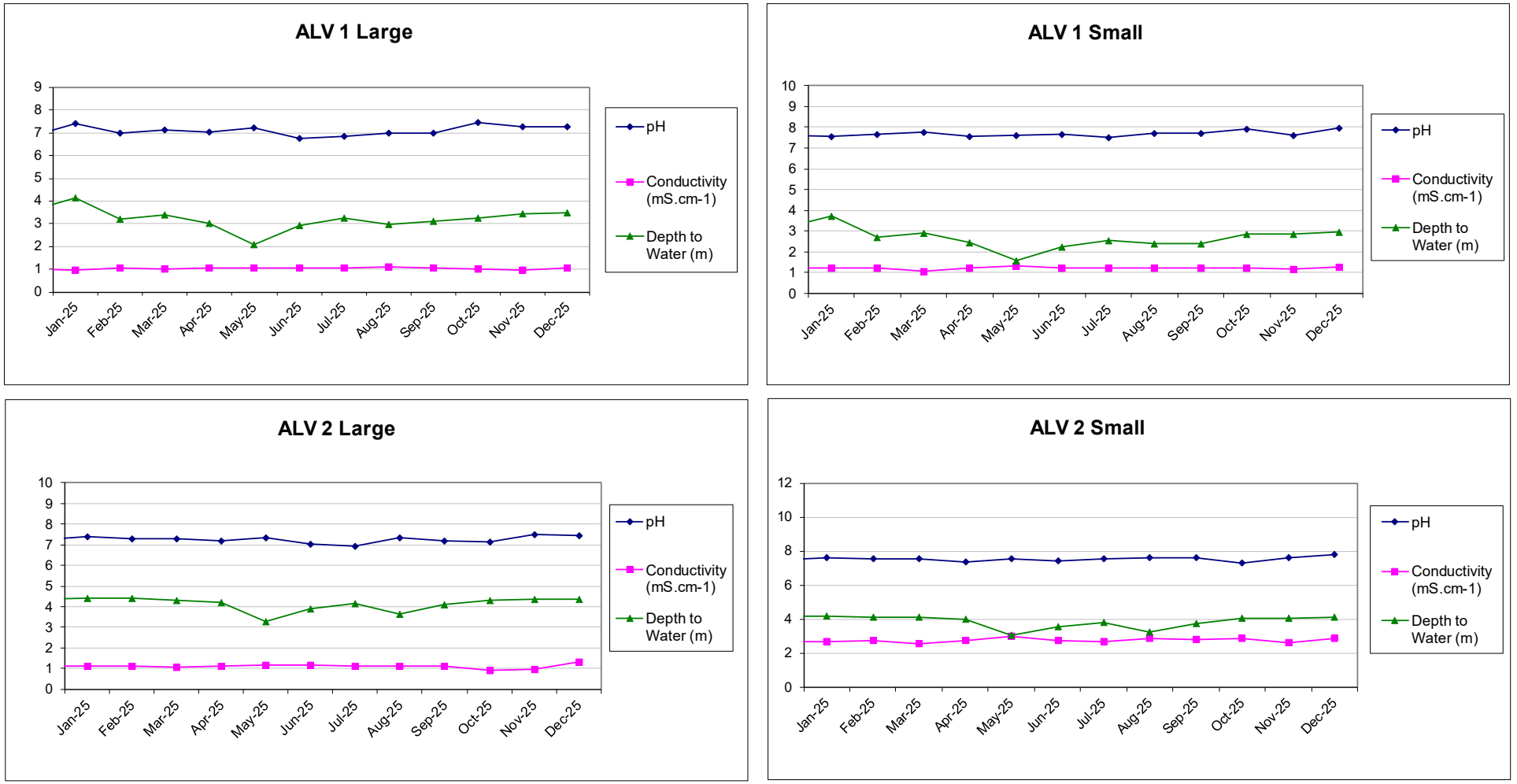


Figure 6.1: Long-term depth, pH and EC trend for ALV 1 (Large and Small) and ALV 2 (Large and Small)

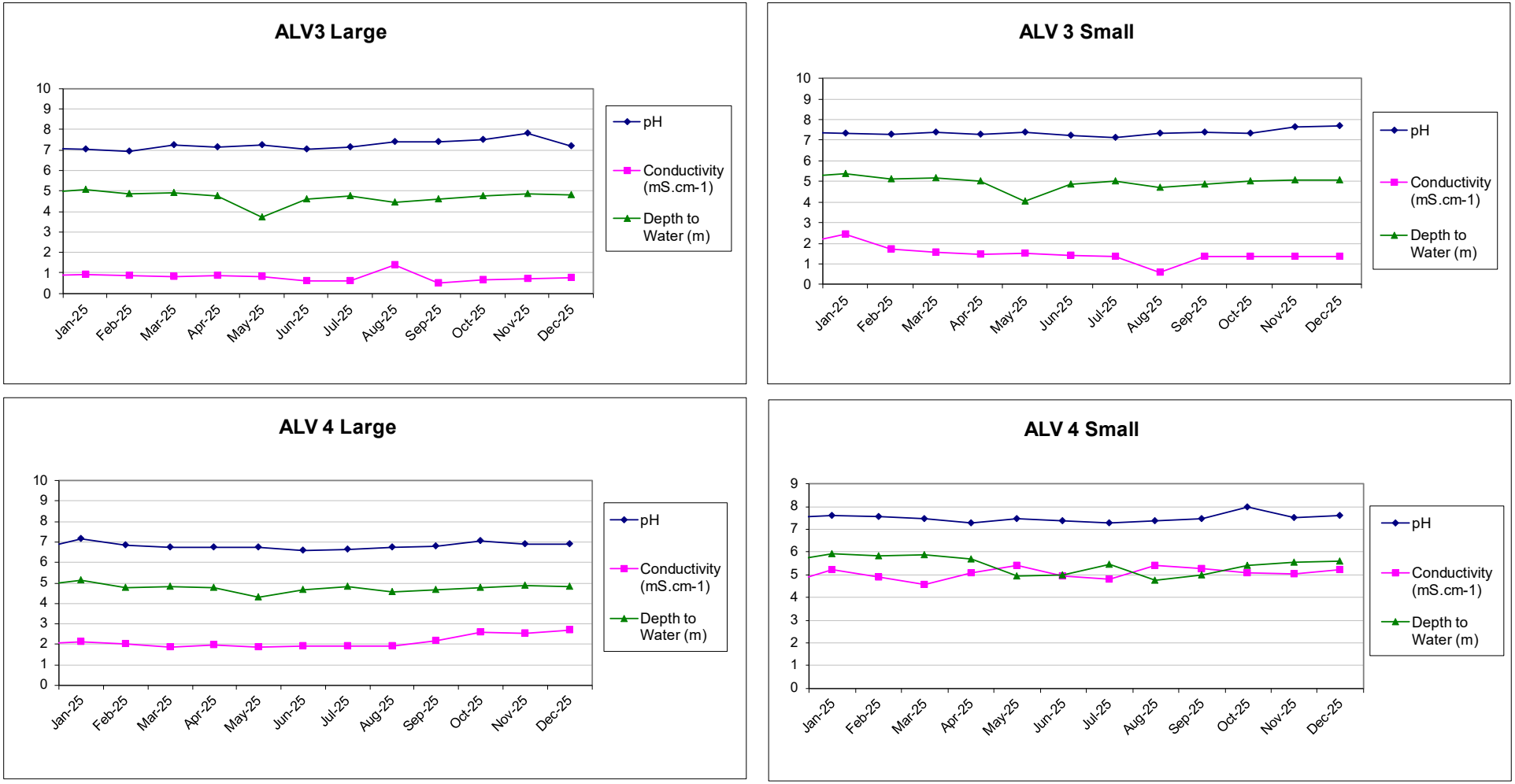


Figure 6.2: Long-term depth, pH and EC trend for ALV 3 (Large and Small) and ALV 4 (Large and Small)

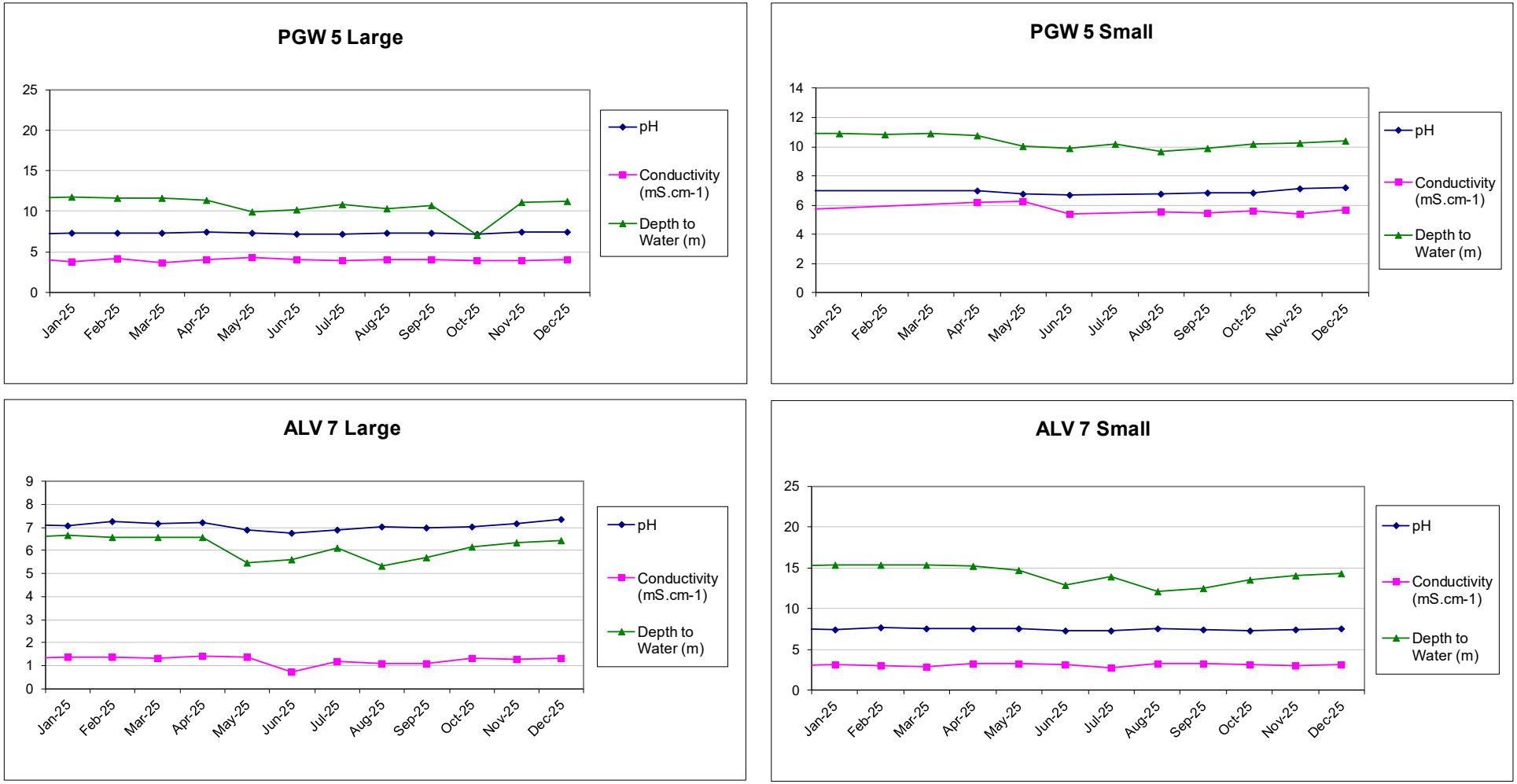
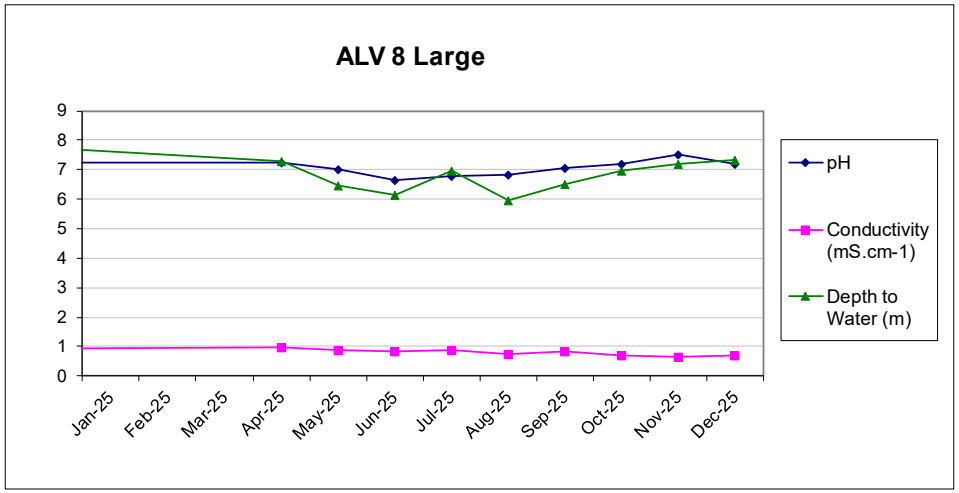
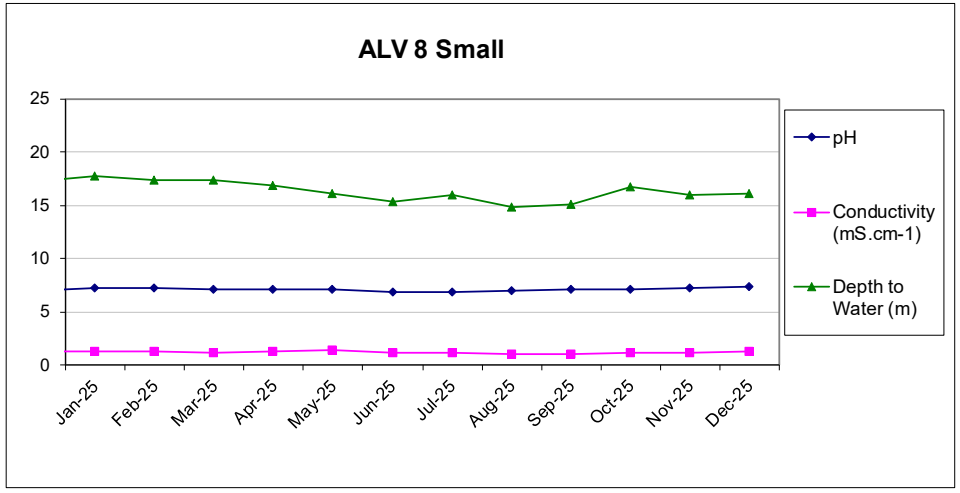


Figure 6.3: Long-term depth, pH and EC trend for PGW 5 (Large & Small) and ALV 7 (Large and Small)





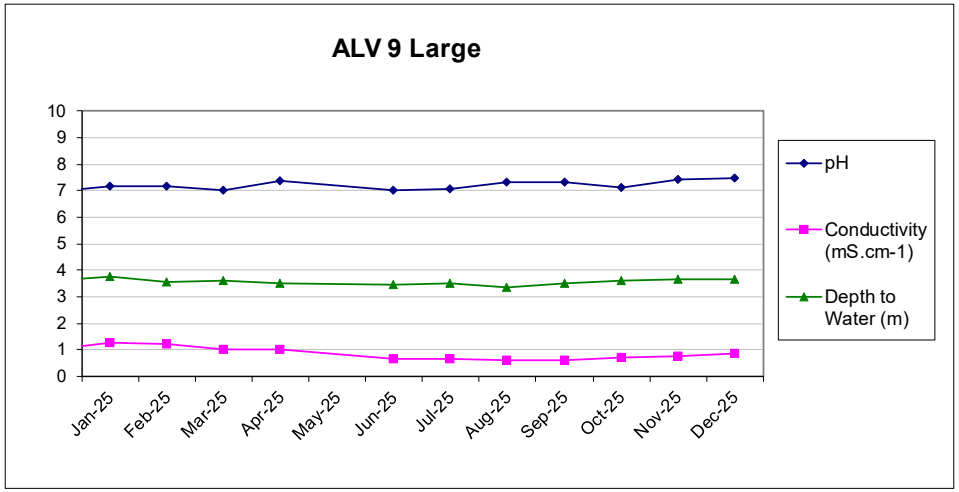
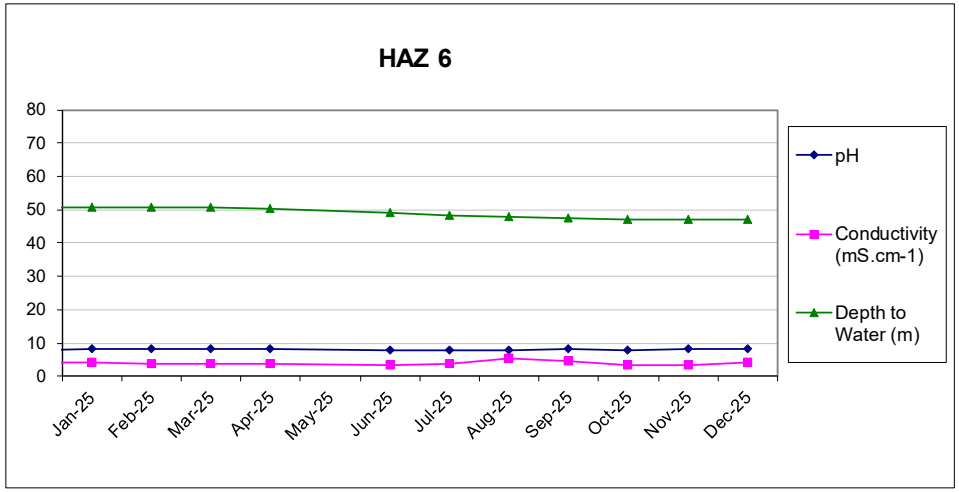
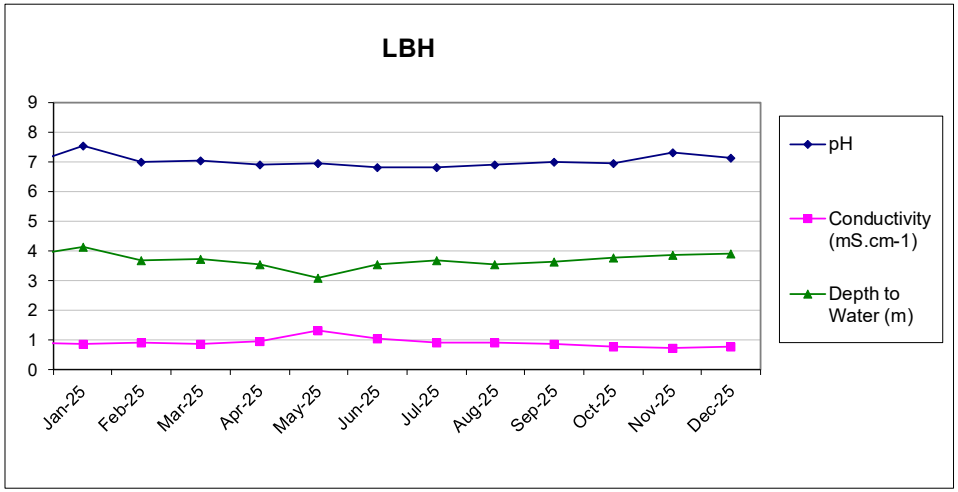


Figure 6.4: Long-term depth, pH and EC trend for ALV 8 (Large and Small) and ALV 9 (Large)





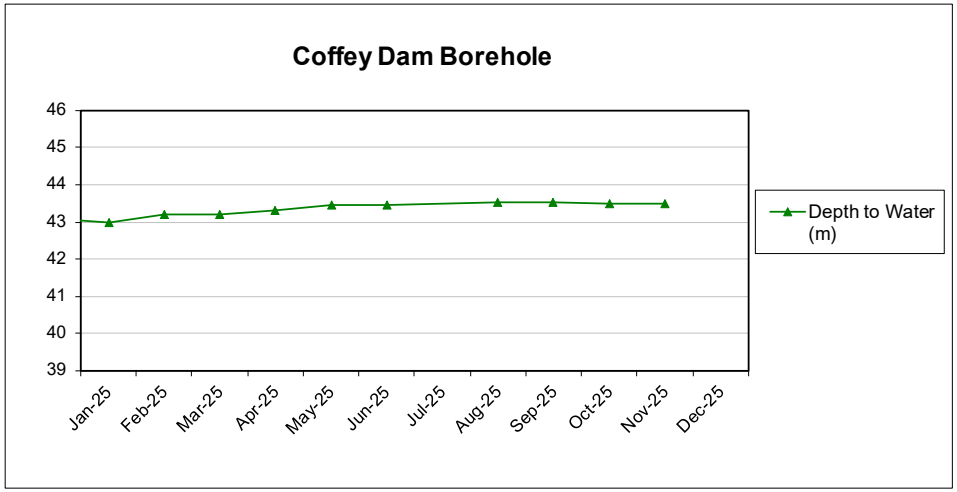


Figure 6.5: Long-term depth, pH and EC trend for HAZ 6 and LBH and Long-term depth for Coffey Dam Borehole.

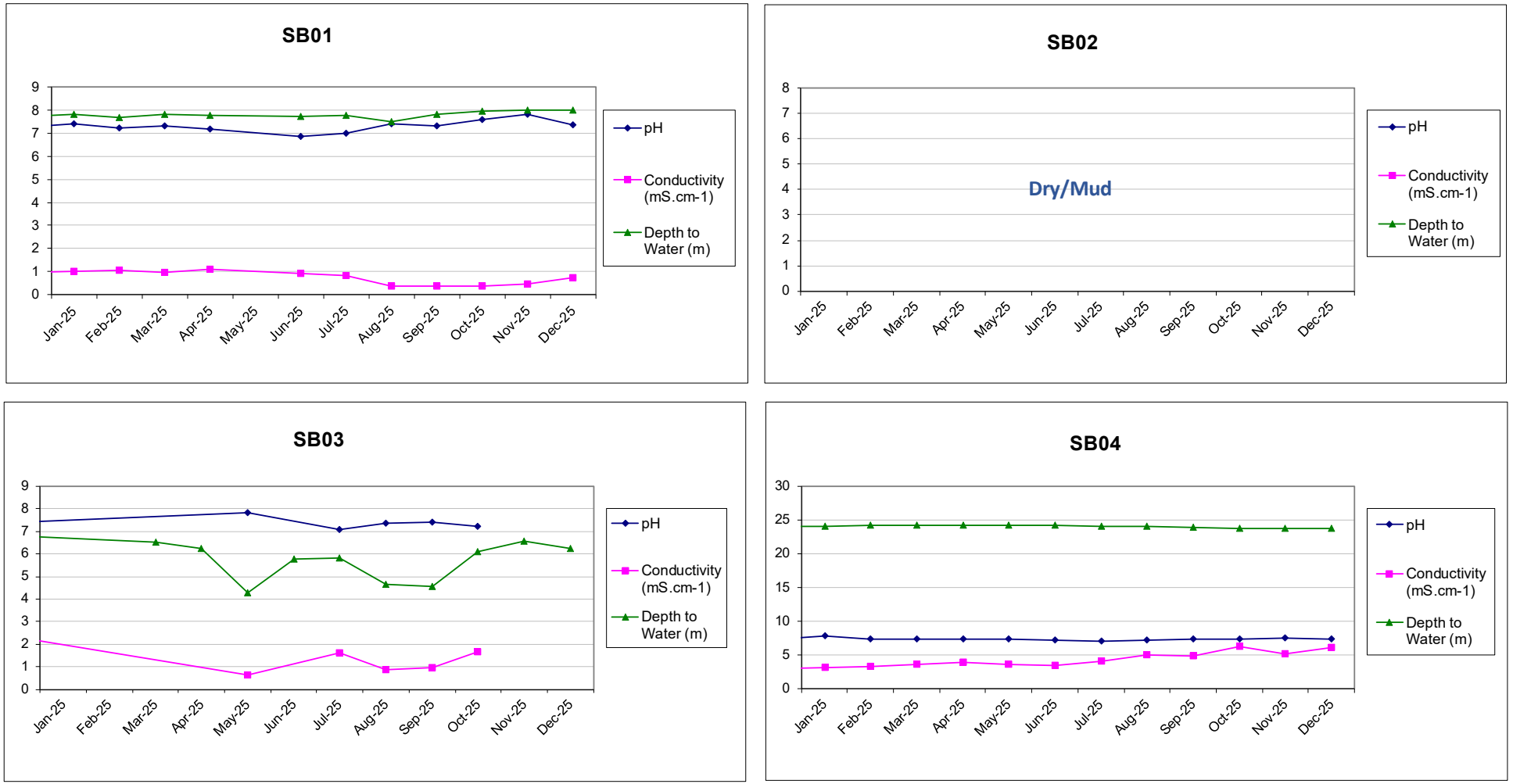


Figure 6.6: Depth, pH and EC trend for SB01, SB02, SB03 and SB04.

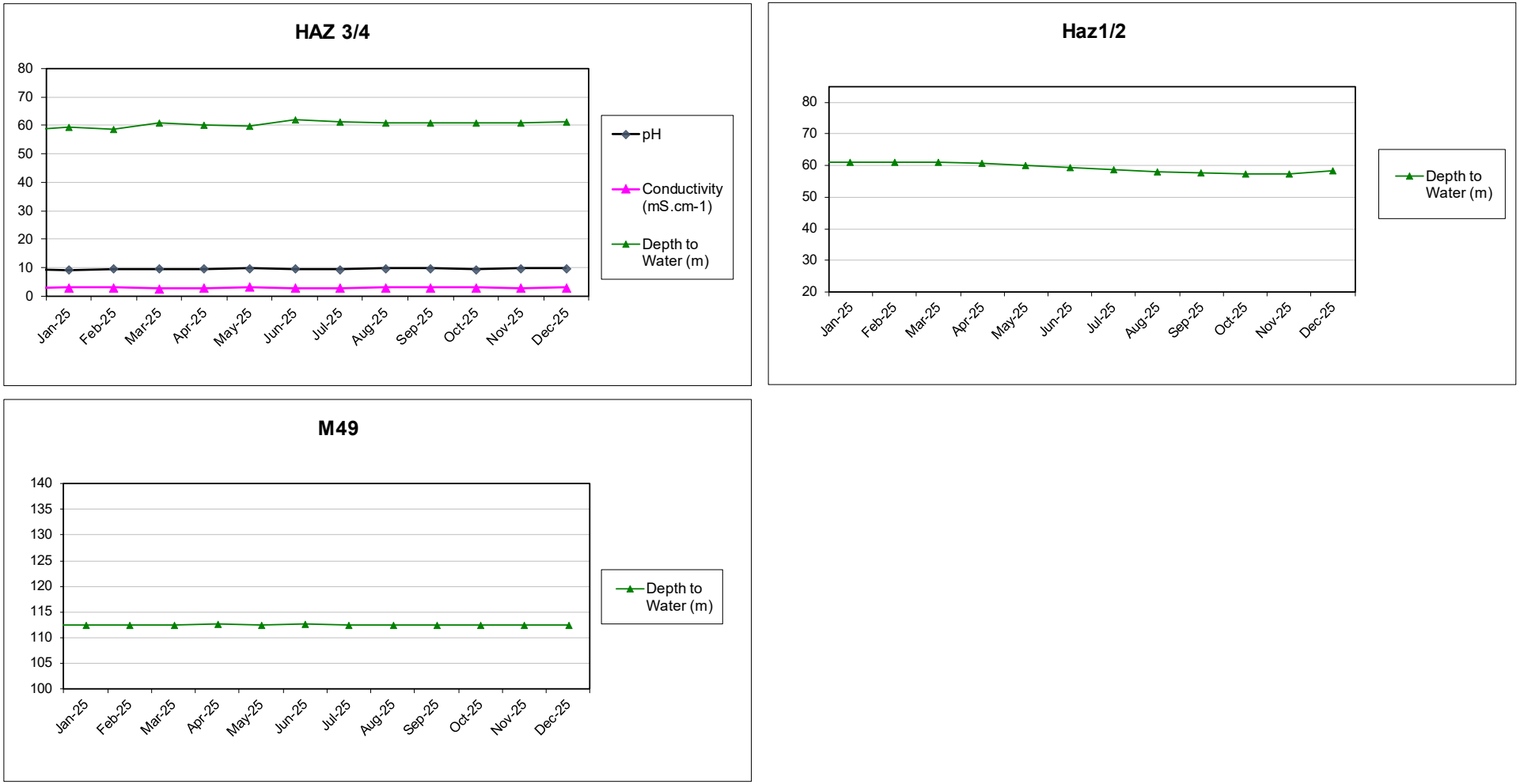


Figure 6.7: Long-term depth trend for HAZ 3/4, M49, and Haz 1/2.

7. Meteorological

Table 11: Monthly Meteorological data summary (daily averages)

Date	2m Temp Ave	10m Temp Ave	Humidity Ave	Barometer Ave	Wind Speed Ave (m/s)	Wind Direction Ave	Daily Rain *(mm)*	Cumulative Rain *(mm)*	Delta Temp Ave	Sigma Theta Ave	Solar Rad Avg
1/12/2025	19.5	19.5	33.9	990	3.9	275.8	0	0	0.0	18.8	236.3
2/12/2025	17.3	17.1	52.9	995	4.0	232.0	0.2	0.2	-0.2	19.0	338.2
3/12/2025	20.3	20.5	48.2	1002	1.8	186.2	0	0.2	0.2	18.4	358.8
4/12/2025	24.6	24.9	38.1	1000	2.2	226.3	0	0.2	0.3	17.5	349.2
5/12/2025	28.9	29.0	28.4	997	2.9	222.9	0	0.2	0.1	21.0	344.4
6/12/2025	30.7	30.7	29.5	991	4.7	271.4	2.4	2.6	0.1	16.9	315.2
7/12/2025	24.4	24.4	57.0	993	4.5	197.4	0.2	2.8	-0.1	12.5	152.0
8/12/2025	24.3	24.1	59.5	996	2.6	187.4	0	2.8	-0.3	21.9	349.2
9/12/2025	27.0	27.0	53.4	996	2.8	199.3	0	2.8	0.0	17.4	348.1
10/12/2025	24.2	24.0	72.3	1001	3.9	135.9	0.4	3.2	-0.2	12.4	219.9
11/12/2025	20.8	20.8	80.2	1003	3.7	151.7	0	3.2	0.0	12.8	68.5
12/12/2025	19.6	19.6	86.1	1000	2.4	131.5	12.2	15.4	0.0	13.4	120.7
13/12/2025	23.2	23.1	68.3	994	1.9	168.7	0.8	16.2	-0.2	18.5	307.1
14/12/2025	26.3	26.2	57.8	990	3.1	275.0	0.4	16.6	-0.1	19.1	325.1
15/12/2025	23.2	22.9	64.3	996	4.7	129.0	0	16.6	-0.3	14.3	316.1
16/12/2025	20.9	20.6	75.0	1003	4.9	142.8	0	16.6	-0.3	11.7	247.1
17/12/2025	23.7	23.4	64.7	1005	2.5	153.7	0	16.6	-0.3	21.3	336.2
18/12/2025	28.0	28.0	49.1	999	1.9	170.7	0	16.6	0.0	18.6	350.6
19/12/2025	31.7	31.7	37.6	994	3.3	227.7	1	17.6	0.0	19.3	302.7
20/12/2025	28.3	28.2	53.7	991	2.3	183.1	0.2	17.8	-0.1	17.0	204.2
21/12/2025	32.5	32.5	42.0	987	4.8	234.4	0	17.8	0.0	18.0	318.7
22/12/2025	27.0	26.9	63.4	989	4.0	239.4	2	19.8	-0.1	18.1	150.6
23/12/2025	25.2	25.1	59.0	993	3.6	199.6	0	19.8	-0.1	16.1	349.8
24/12/2025	25.7	25.5	56.5	993	2.7	201.2	0	19.8	-0.2	19.8	326.1
25/12/2025	22.7	22.5	62.2	993	3.9	142.4	0	19.8	-0.2	16.7	330.2
26/12/2025	16.3	16.2	70.3	998	4.7	125.4	0	19.8	-0.2	9.5	96.4
27/12/2025	17.7	17.4	57.6	999	3.8	129.7	0	19.8	-0.2	13.1	370.3
28/12/2025	18.4	18.2	56.4	1003	4.1	124.2	0	19.8	-0.2	10.6	317.7
29/12/2025	18.9	18.8	57.1	1002	3.7	129.0	0	19.8	-0.2	13.1	373.7
30/12/2025	21.1	20.9	54.9	996	2.4	137.5	0	19.8	-0.2	20.5	363.9
31/12/2025	20.1	20.2	66.1	993	3.3	125.4	0	19.8	0.0	12.2	179.8
Monthly	23.6	23.5	56.6	996	3.4	182.5	19.8	19.8	-0.1	16.4	282.8

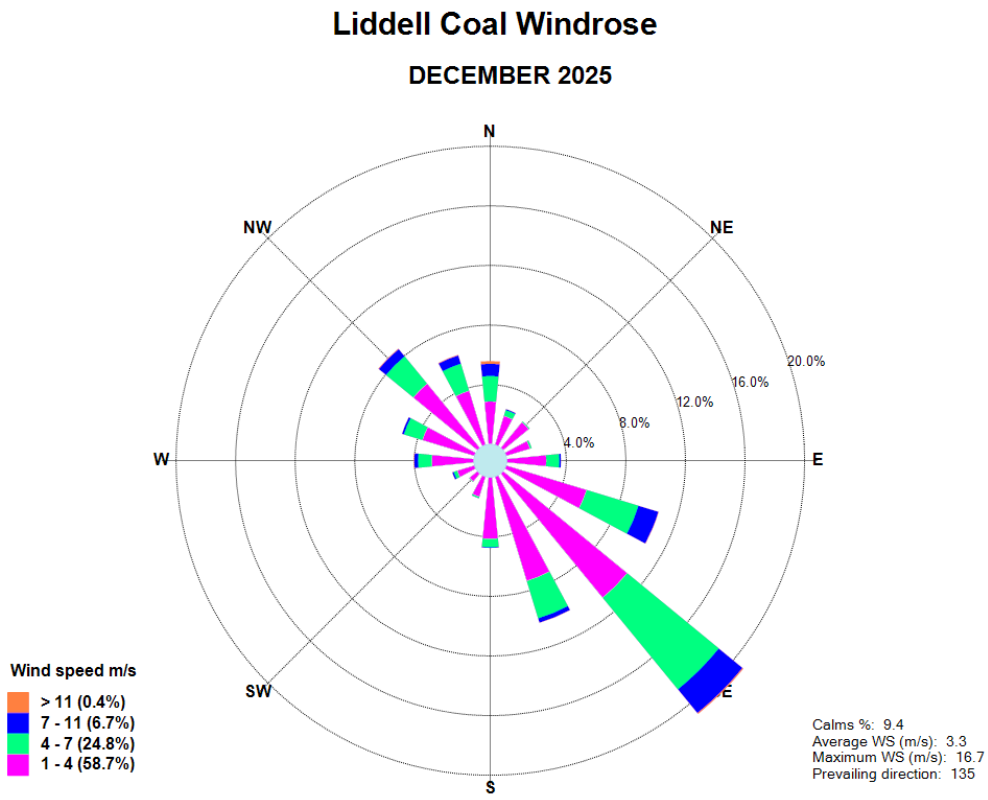
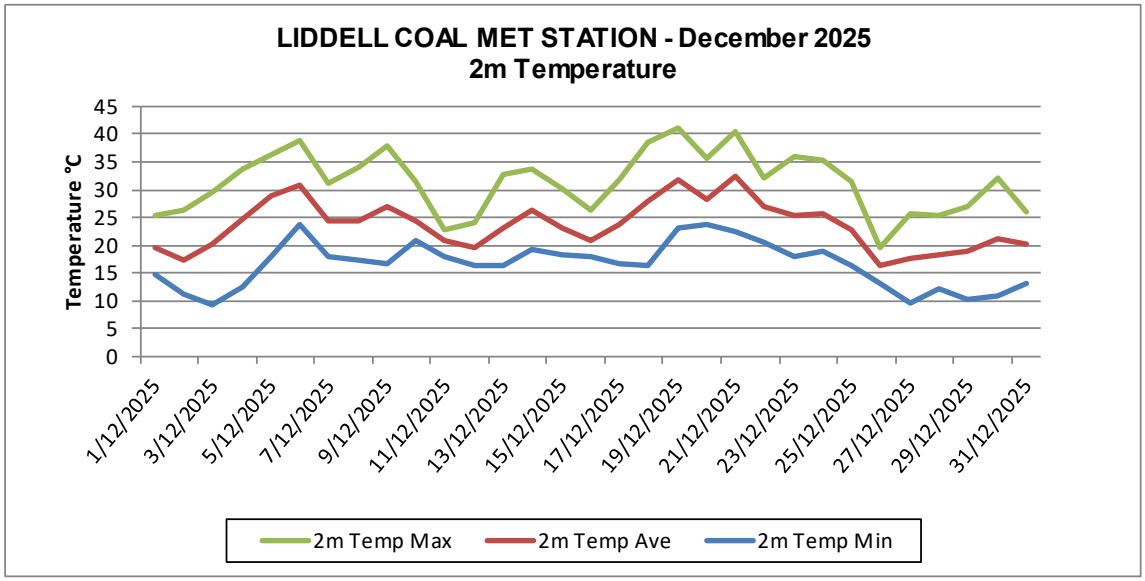
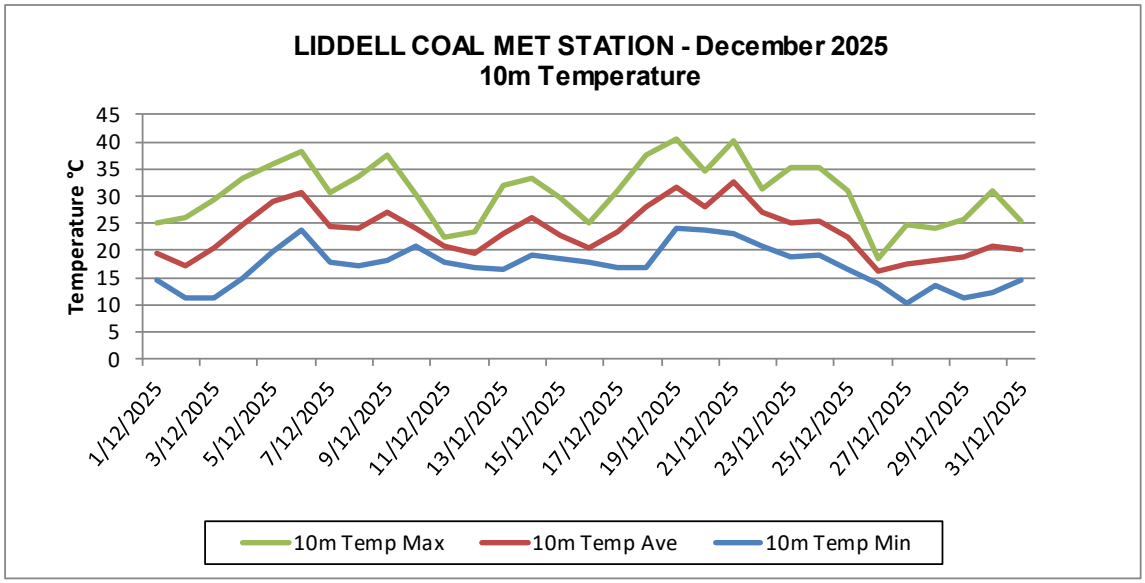


Figure 7.1: Windrose





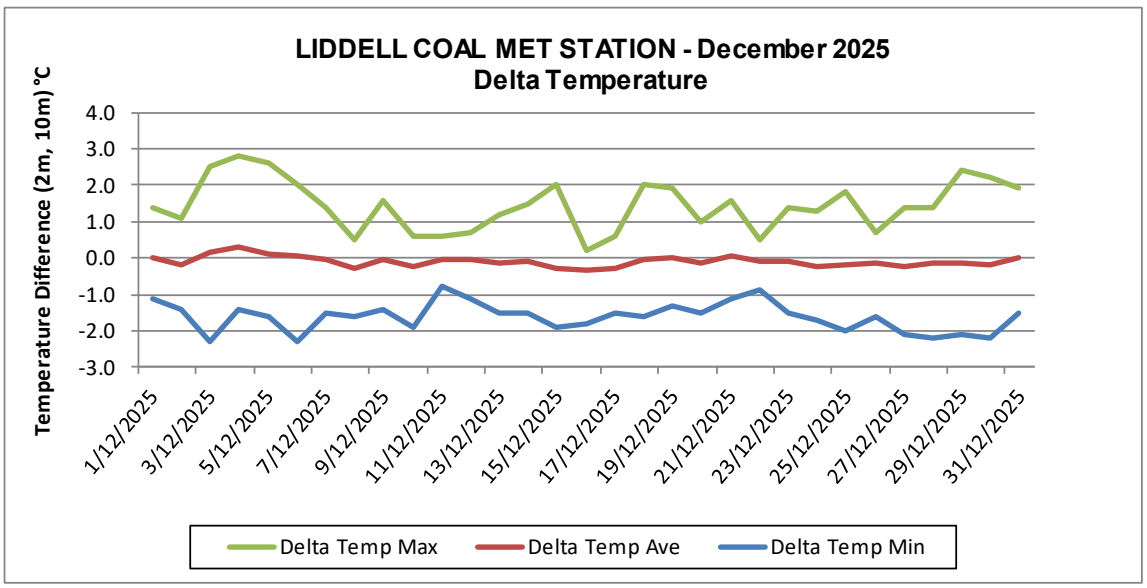
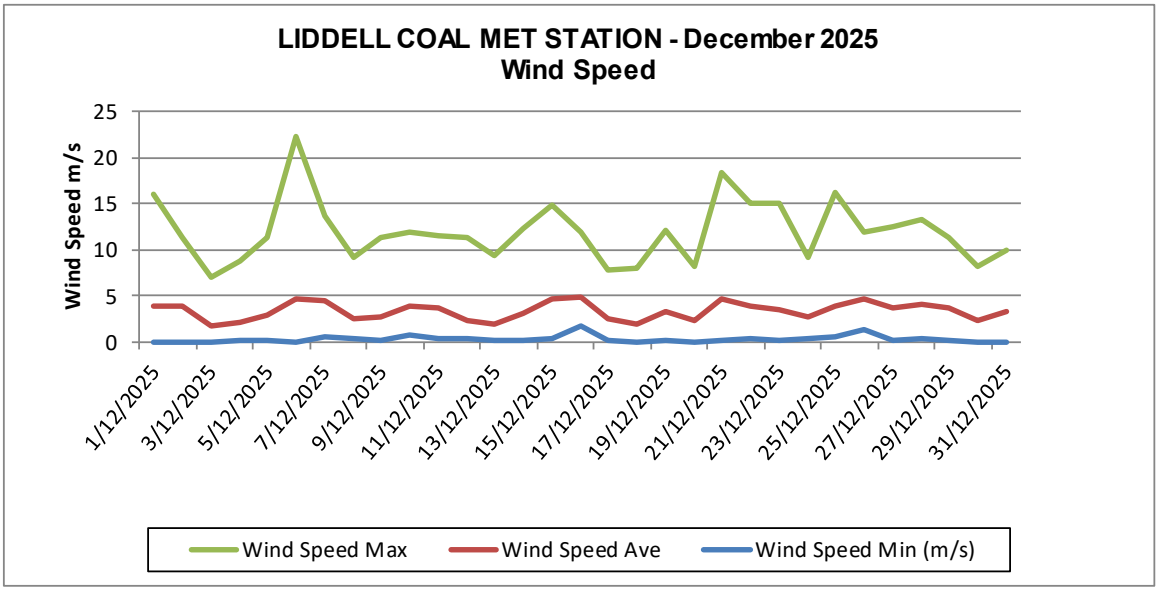
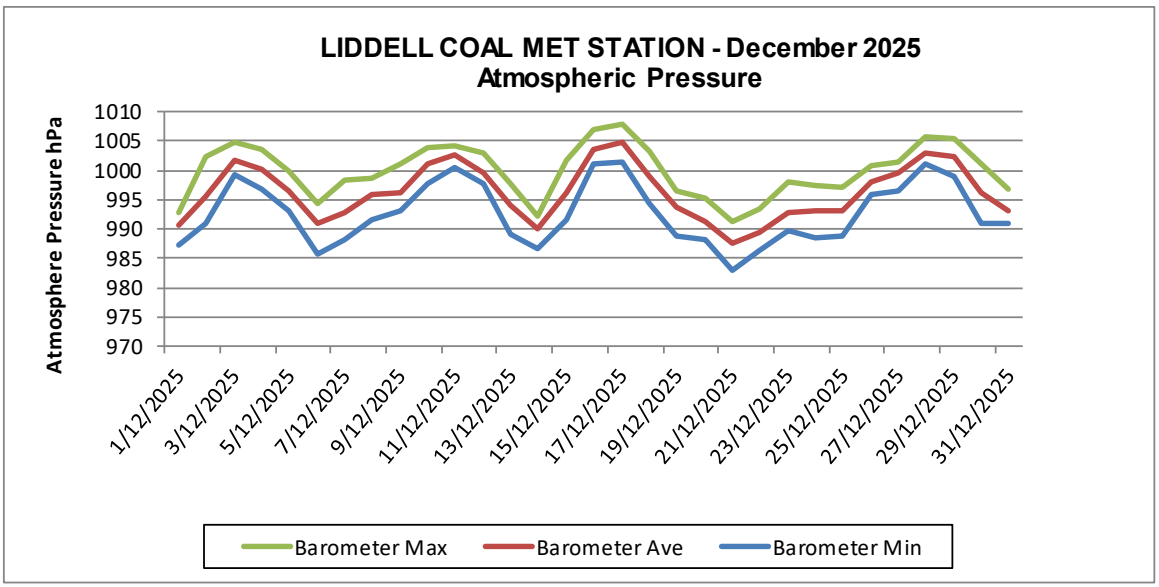


Figure 7.2: Daily minimum, average and maximum 2-metre, 10-metre and Delta Temperature





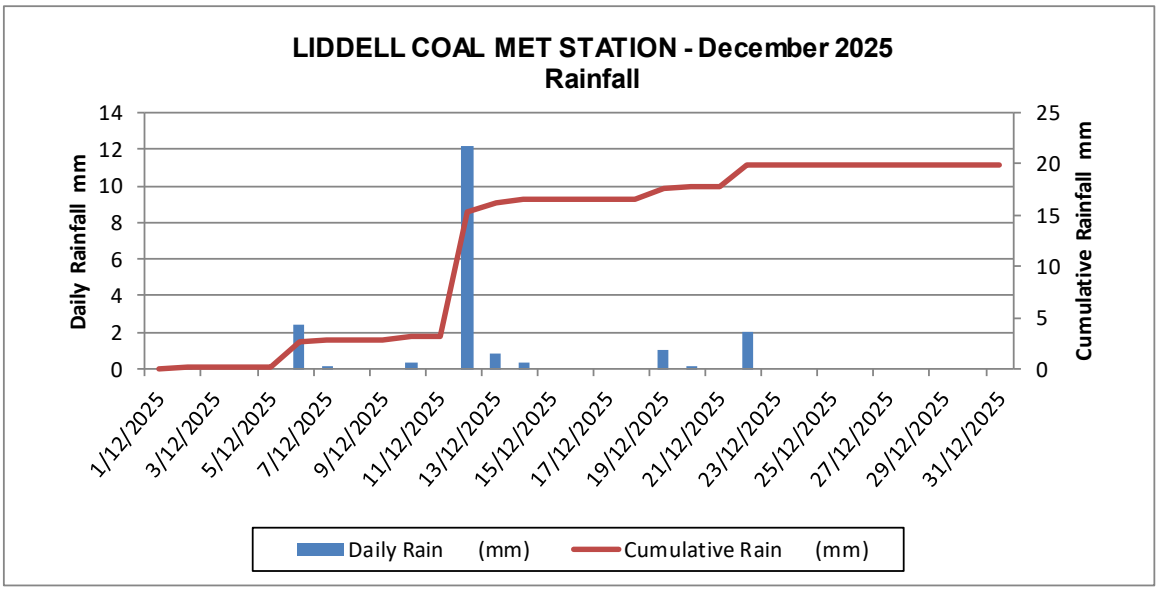
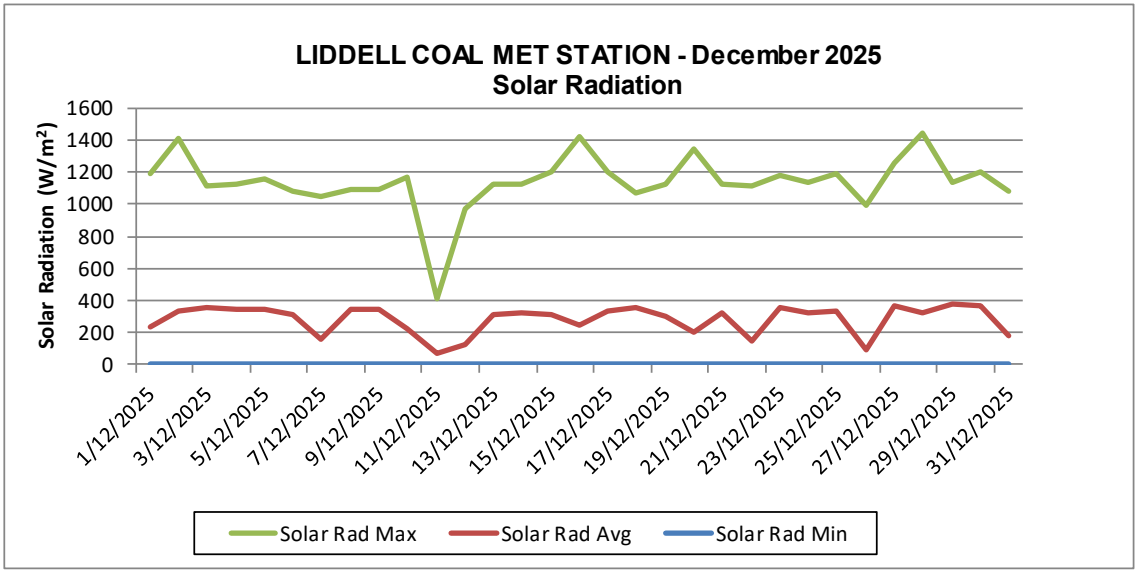
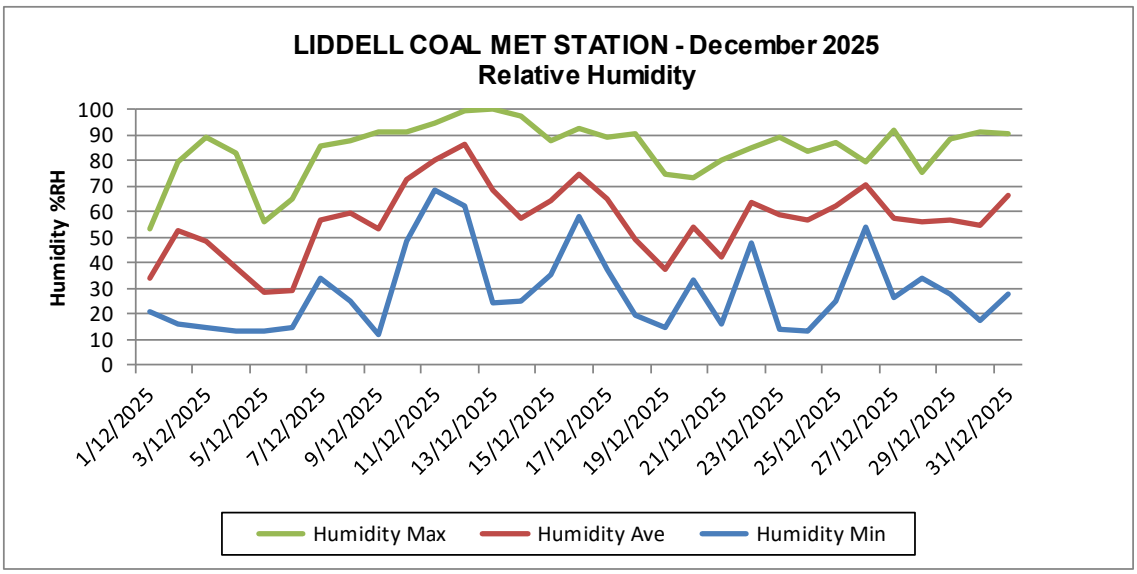


Figure 7.3: Daily minimum, average and maximum Wind Speed, Atmospheric Pressure and Rainfall





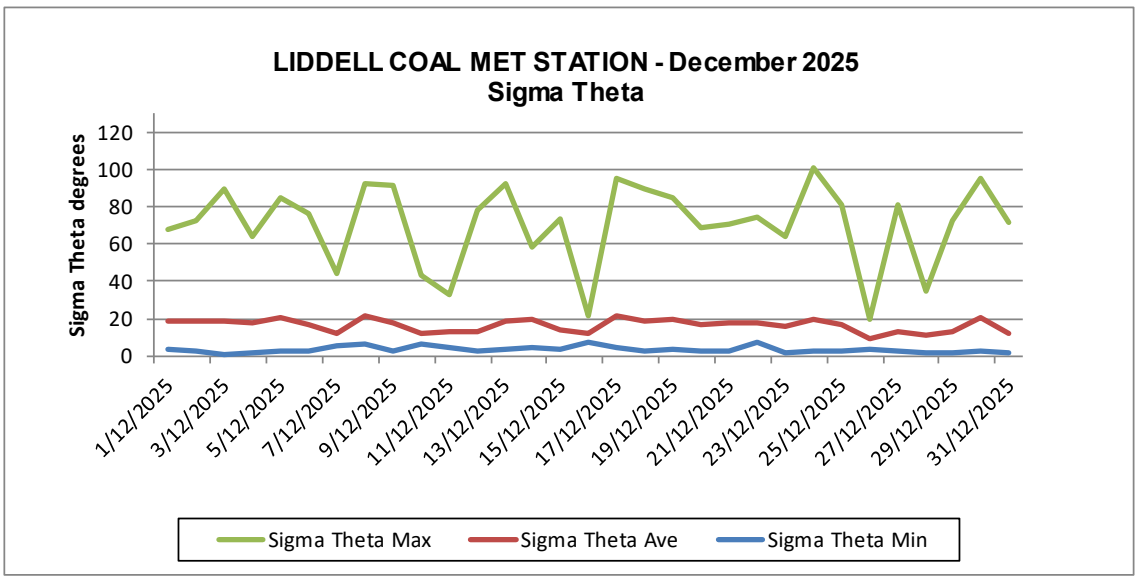


Figure 7.4: Daily minimum, average and maximum Solar Radiation, Humidity and Sigma Theta