

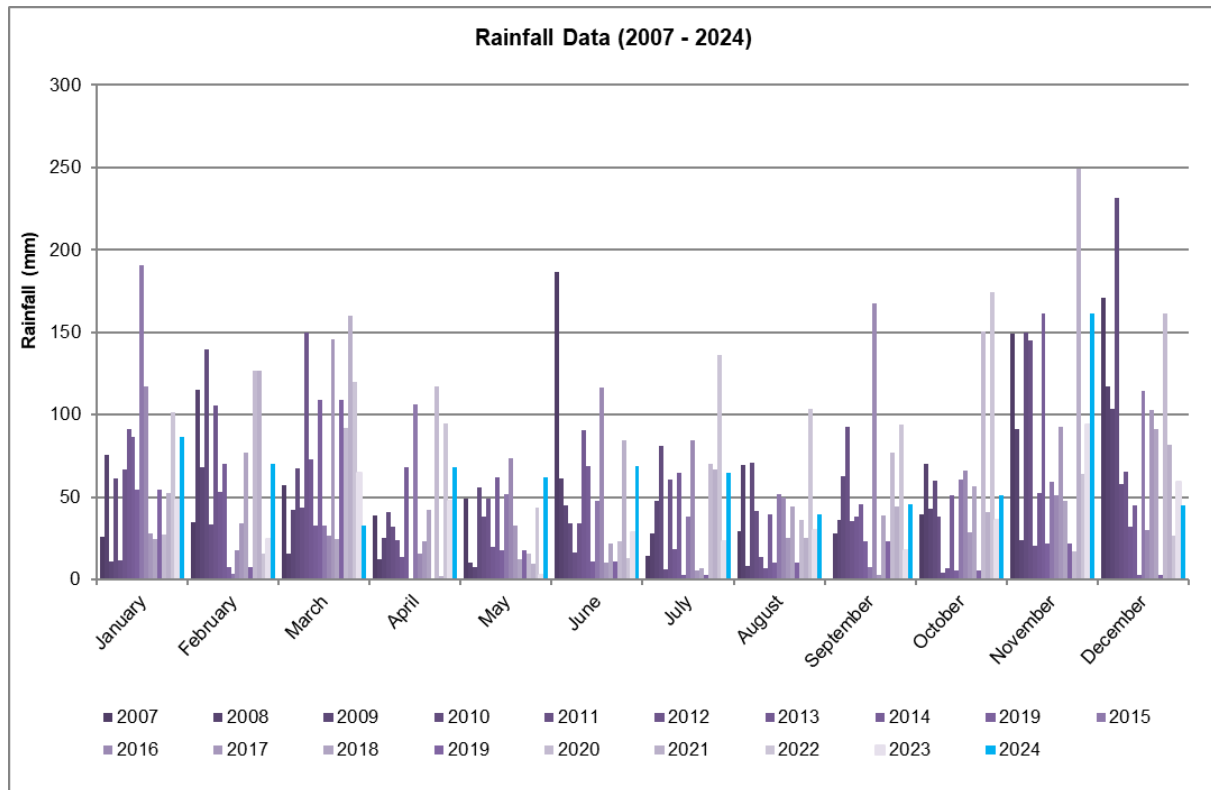
APPENDIX 3
ENVIRONMENTAL
PERFORMANCE

APPENDIX 3A
METEOROLOGICAL
MONITORING DATA

2024 Summary of Rainfall Data

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	2024	86.6	70.4	32.8	67.8	62.2	68.6	65	39.8	45.4	51	161.6	45
Cumulative Rainfall (mm)	2024	86.6	157	189.8	257.6	319.8	388.4	453.4	493.2	538.6	589.6	751.2	796.2

Rainfall Data 2007-2024



2024 Summary of Temperature Data

	Air Temperature (°C at 2 m)			Air Temperature (°C at 10 m)			Air Temperature (°C at 60 m)		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
January	12.1	38.3	24.4	13.1	37.6	24.4	14.2	36.4	23.9
February	15.3	38.9	24.4	15.5	37.9	24.4	14.8	36.5	23.9
March	8.9	36.9	21.7	10.0	36.2	21.8	11.6	35.2	21.6
April	4.8	29.5	15.8	5.9	29.0	16.1	6.9	28.0	16.4
May	0.7	23.0	12.4	1.3	22.0	12.7	3.3	21.2	13.0
June	-1.4	20.3	9.0	-0.8	19.7	9.3	0.8	18.9	9.4
July	-2.3	20.3	9.0	-1.5	19.5	9.3	-0.5	18.5	9.2
August	-1.5	28.5	12.1	-0.8	28.3	12.4	0.4	27.3	12.5
September	-0.7	27.8	13.5	0.1	27.4	13.8	1.1	26.3	14.1
October	5.6	29.3	17.0	6.4	28.7	17.1	7.2	27.6	16.9
November	9.5	35.8	21.7	10.6	35.2	21.8	11.9	34.3	21.5
December	9.7	36.6	24.3	11.1	35.8	24.3	12.9	34.8	24.4

**2024 Annual Review – Wilpinjong Coal Mine
Appendix 3A – Meteorological Monitoring Data**

Historical Rainfall Data (mm) 2006-2024

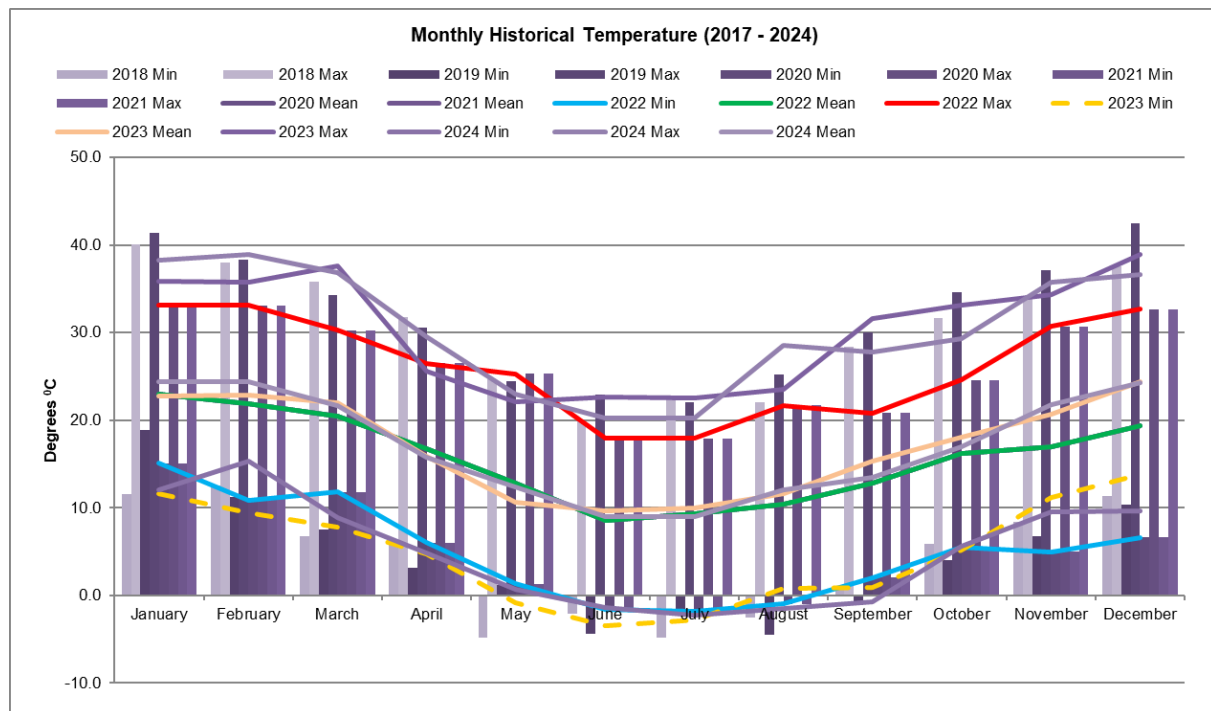
Monthly	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Monthly Average (mm)
January	67	26.2	75.8	10.6	61.4	11.4	66.8	91.2	86.6	190.8	117.4	27.8	24.4	54.8	27.2	52.6	101.4	48.6	86.6	64.7
February	76.6	35	115.2	67.8	139.8	33.6	105.6	53	70.4	3.6	17.8	34.2	77	7.4	127	126.6	16.0	24.6	70.4	63.2
March	9.2	57.2	15.6	42.2	67.2	43.4	150	73	32.8	32.4	26.4	146	24.6	108.8	92	159.8	119.8	64.6	32.8	68.3
April	20.8	38.8	12.4	25.4	40.6	32	23.8	13.8	67.8	106	15.4	23	42.2	0	117	1.8	95.0	47.8	67.8	41.7
May	0.8	49.2	10.4	7.4	56	38	48.8	20	62.2	52	73.4	32.4	12.4	17.6	16	9.4	43.6	2.8	62.2	32.3
June	37.2	186.8	61	44.8	34	16.6	34.2	90.6	68.6	47.4	116.6	10.4	21.6	10.6	23.4	84.4	13.0	28.8	68.6	52.6
July	51	14.6	27.8	48	81	6.2	60.6	18.6	65	38.2	84.8	5.8	6.8	2.6	70	66.8	136.4	23.2	65.0	45.9
August	7	29.2	69.4	8.2	70.8	41.8	13.4	6.8	39.8	52	50	25.2	44.4	10.2	36.4	25.4	103.2	29.8	39.8	37.0
September	15.6	0.2	27.8	36.2	62.4	92.8	35.4	38	45.4	7.8	167.2	3	39	23	77.2	44.2	93.8	18.0	45.4	45.9
October	1.8	39.4	70	43	60	38	4.2	6.6	51	60.8	65.8	28.4	56.8	5.6	150.6	40.8	174.4	36.2	51.0	51.8
November	70	149.2	91	24.2	150	145	20.8	52.8	161.6	59	50.8	92.6	47.4	22	17.4	249.2	64.0	94.0	161.6	90.7
December	NA	171.2	117.4	103.2	231.2	58	65.6	31.8	45	114.4	30	102.6	91.2	3	161.6	81.4	26.6	59.6	45.0	85.5
Total	357	797	693.8	461	1054.4	556.8	629.2	496.2	796.2	764.4	815.6	531.4	487.8	265.6	915.8	942.4	987.2	478.0	796.2	-

**2024 Annual Review – Wilpinjong Coal Mine
Appendix 3A – Meteorological Monitoring Data**

Historical Temperature Data (°C) 2013-2024

	2013			2014			2015			2016			2017			2018		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
January	14.3	41.9	25.6	12.5	41.8	24.8	10.0	34.9	22.9	11.8	37.9	22.7	16.0	41.6	26.4	11.6	40.1	25.9
February	10.4	34.2	22.0	19.2	20.9	30.4	12.5	34.6	22.9	11.1	37.8	23.6	7.7	43.7	25.9	12.5	38.0	23.9
March	9.3	31.4	20.5	7.5	29.6	20.1	6.6	35.8	21.6	8.9	35.0	22.2	9.7	33.3	21.7	6.7	35.8	21.9
April	4.0	28.8	16.2	3.6	30.0	16.9	4.0	29.6	16.3	7.6	32.9	18.5	3.0	26.4	15.3	6.0	31.8	19.1
May	0.2	27.1	12.4	1.2	26.3	12.2	1.4	24.3	13.0	-1.4	26.5	13.3	-4.0	23.4	12.3	-4.8	24.7	12.4
June	-0.2	18.7	10.0	-0.9	19.6	9.9	-1.6	19.0	9.2	-2.1	18.8	10.0	-2.5	19.1	9.5	-2.1	19.9	9.2
July	-2.2	20.3	9.6	-3.7	21.3	8.0	-2.2	16.5	7.6	-2.4	21.7	10.0	-4.0	23.5	7.7	-4.8	22.8	8.7
August	1.6	25.0	12.9	-3.1	20.6	9.8	-1.3	23.3	9.9	-0.9	22.1	9.7	-3.1	24.6	9.6	-2.5	22.1	9.6
September	2.0	30.0	15.2	-0.2	29.7	13.6	0.4	25.5	12.8	1.8	21.7	12.7	-1.6	33.7	14.1	1.1	28.4	13.7
October	1.5	33.6	17.7	1.6	35.9	18.8	7.0	33.8	19.4	2.6	29.4	15.0	3.2	31.8	19.0	5.9	31.7	18.0
November	5.9	35.2	19.6	6.9	41.9	22.7	10.3	37.8	21.4	4.4	34.2	19.6	6.3	31.9	21.2	8.4	34.2	21.2
December	5.1	38.5	23.1	11.1	35.0	22.6	12.0	36.1	22.7	8.6	37.4	24.1	10.7	37.6	23.9	11.3	37.6	24.0
	2019			2020			2021			2022			2023			2024		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
January	18.9	41.4	27.8	16.0	41.5	26.2	10.9	35.7	22.5	15.1	33.1	22.9	11.6	35.9	22.7	12.1	38.3	24.4
February	11.2	38.3	24.1	10.4	40.4	22.3	11.6	32.1	21.6	10.9	33.1	21.8	9.4	35.8	22.9	15.3	38.9	24.4
March	7.5	34.3	22.1	7.5	33.6	19.2	10.0	31.8	19.5	11.8	30.3	20.5	7.8	37.6	22.0	8.9	36.9	21.7
April	3.1	30.6	17.5	5.6	26.6	16.0	1.3	27.1	14.8	6.0	26.5	16.7	4.7	25.6	15.9	4.8	29.5	15.8
May	1.2	24.5	12.2	0.0	23.2	11.3	-0.8	23.0	11.9	1.3	25.3	12.8	-0.8	22.1	10.6	0.7	23.0	12.4
June	-4.4	22.9	9.3	0.3	19.6	9.9	0.3	21.2	9.3	-1.6	18.0	8.5	-3.5	22.7	9.6	-1.4	20.3	9.0
July	-2.1	22.0	9.9	-0.5	20.4	9.4	-3.0	20.6	8.7	-1.8	17.9	9.3	-2.8	22.5	9.9	-2.3	20.3	9.0
August	-4.5	25.2	9.8	-1.5	21.1	9.6	-0.2	24.9	10.6	-1.0	21.7	10.5	0.8	23.5	11.6	-1.5	28.5	12.1
September	-1.1	30.0	14.3	2.5	26.5	14.0	1.3	26.3	13.2	2.0	20.8	12.8	0.9	31.6	15.3	-0.7	27.8	13.5
October	4.0	34.6	19.0	4.4	29.9	17.3	5.1	31.2	15.9	5.5	24.6	16.2	5.2	33.1	18.0	5.6	29.3	17.0
November	6.8	37.1	21.9	8.5	38.2	20.9	8.0	28.5	17.8	5.0	30.7	17.0	11.2	34.3	20.7	9.5	35.8	21.7
December	10.4	42.5	25.3	9.6	40.2	20.9	8.3	33.7	21.2	6.6	32.7	19.3	13.8	38.9	24.4	9.7	36.6	24.3

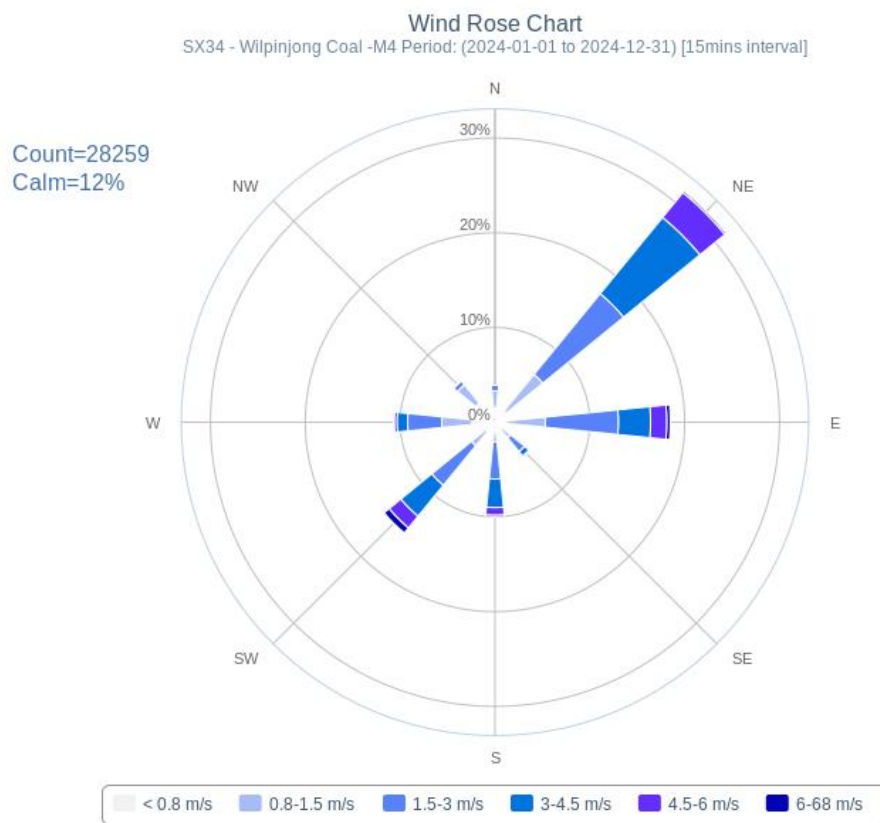
Historical Temperature 2017-2024



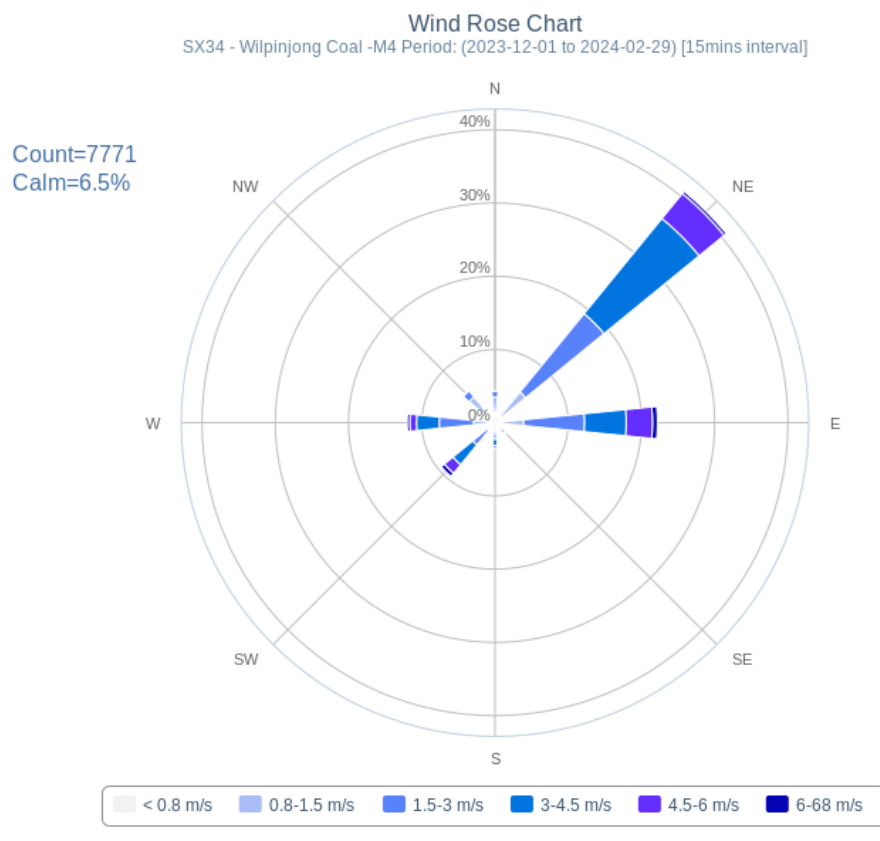
2024 Average Wind Speeds & Directions

Month	Ave Wind Speed (m/s)	Max Wind Speed (m/s)	Ave Wind Direction (°)
January	2.2	8.3	104.23
February	2.0	11.4	112.72
March	1.8	10.0	109.27
April	1.1	6.5	137.96
May	1.2	6.8	126.42
June	1.2	7.8	189.37
July	2.0	9.0	192.55
August	1.3	8.8	135.74
September	1.4	8.5	155.57
October	1.7	9.6	104.00
November	1.8	10.2	123.40
December	1.5	11.4	147.23

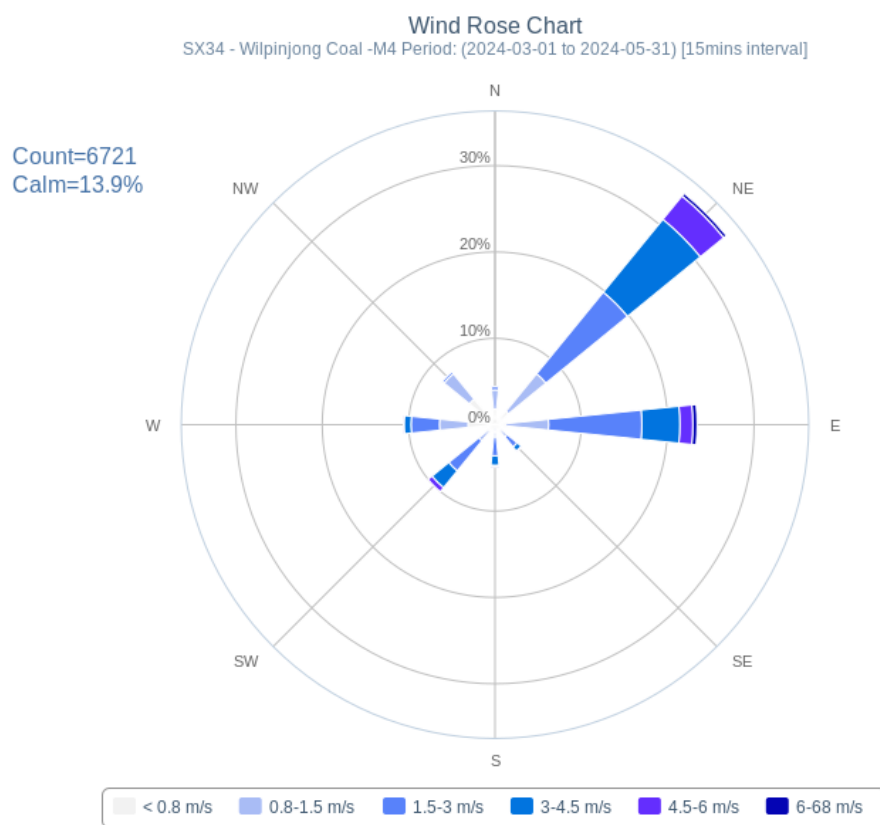
Annual Wind Rose 2024



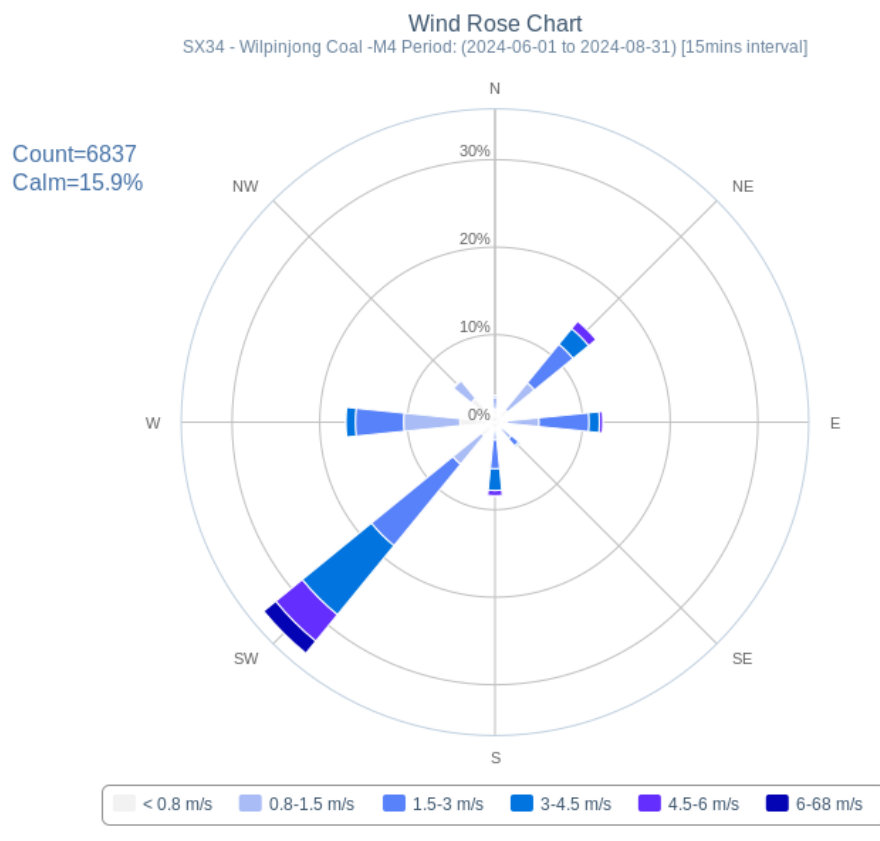
Summer Wind Rose December 2023 - February 2024



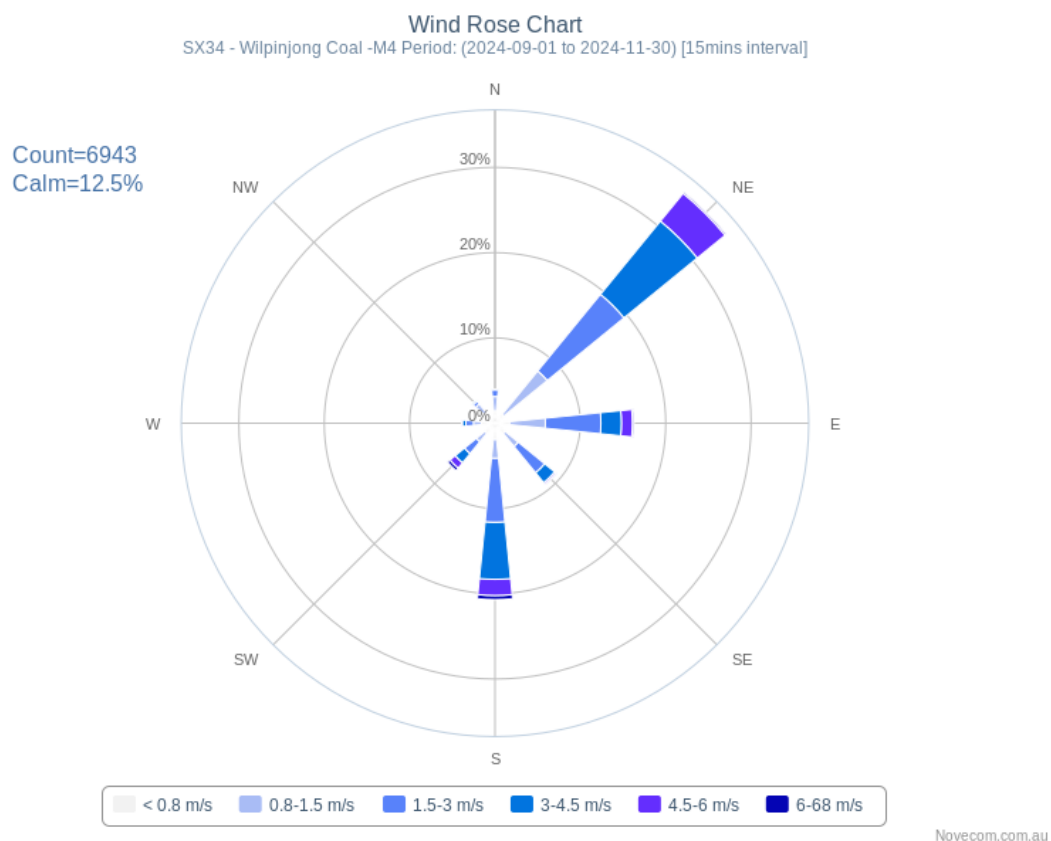
Autumn Wind Rose 2024

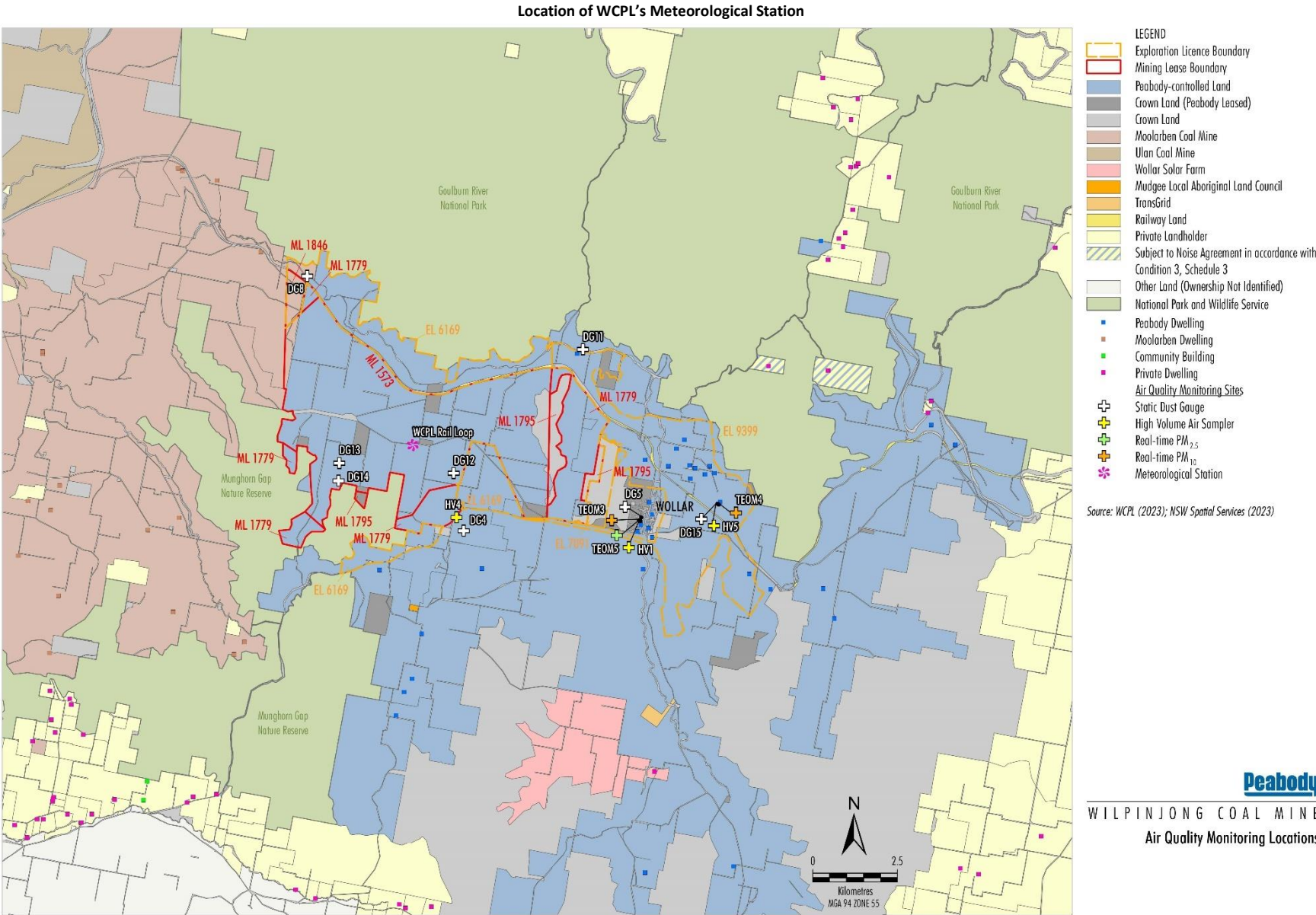


Winter Wind Rose 2024



Spring Wind Rose 2024





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