

Mannering Colliery Monthly Website Report – September 2025

| Site: | Mannering Colliery |
|-----------------|---|
| Department: | Health Safety and Environment |
| Report Title: | Monthly Environmental Report – September 2025 |
| Report Date: | 8 th October 2025 |
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Mannering Colliery Monthly Environmental Report – September 2025

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Summary

Environmental monitoring results are presented in this report for monitoring undertaken during the period of September 2025.

Introduction

Great Southern Energy Pty Ltd (trading as Delta Coal) operates Mannering Colliery, an underground coal mine at the southern end of Lake Macquarie.

Mannering Colliery operates under the following regulatory instruments:

- Section 66(6) of the Protection of the Environmental Operations Act 1997, to make monitoring data related to an Environment Protection Licence (EPL) publicly available;
- Condition 10 & 13, Schedule 5, of Project Approval 06_0311 (as modified) to provide details of monitoring results and environmental performance;
- An Environment Protection Licence (EPL 191) issued under the *Protection of the Environment Operations Act 1997*; and
- A Water Access Licence (WAL40461), Aquifer (Sydney Basin North Coast Groundwater Source) for 450-unit shares (megalitres).

Details of the Mannering Colliery EPL 191 are provided below.

| Mannering Colli | Mannering Colliery Information | |
|-----------------|------------------------------------|--|
| Premises name | Mannering Colliery | |
| Address | Ruttleys Road, Doyalson, NSW, 2262 | |
| Licensee | Great Southern Energy Pty Ltd | |
| EPL# | 191 | |
| EPL location | EPL 0191 - 9 April 2025 | |

The overall purpose of this monthly report is to keep stakeholders informed of the environmental monitoring results at Mannering Colliery and maintain a transparent and accountable reporting system.

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Scope

This report presents the results from the various environmental monitoring programs undertaken for Mannering Colliery. Results are presented monthly with annual data, averages and trends in data also shown where relevant.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Project Approval) to assess compliance.

Monitoring results presented include:

- Water quality;
- Water volume;
- Air Quality Depositional Dust
- Air Quality PM₁₀
- Air Quality PM_{2.5}; and
- Meteorological data.

Definitions

```
g/m²/month – grams per square metre per month;
kL – kilolitre;
ML – megalitre;
mg/L – milligrams per litre;
TSS – total suspended solids;
μg/L – micrograms per litre; and
μS/cm – microSiemens per centimetre.
```

References

Project Approval MP06_0311 (as modified)

Environment Protection Licence 191 (Licence version date: 9 April 2025)

ALS - Dust Deposition Report September 2025

ALS – MC Water Analysis Reports September 2025

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Monitoring Results

| Water – Quality | |
|-----------------|--|
|-----------------|--|

Weekly water quality results for discharge point LDP001 are presented below.

| | 0 1 1 | 2005 | | |
|-----------------------------|---------------------|---------------|-----------------------------|---------------------------------------|
| | September | 2025 | | |
| EPL | 191 | | | |
| Licensee | Great Southern Ene | rgy Pty Ltd | | |
| Premises | Mannering Colliery | | | |
| Location | LDP001 (EPA ID # 1) | | | |
| Sample Frequency | Weekly | | | |
| pH limit | 6.5 - 8.5 | | | |
| TSS limit (mg/L) | 50 | | | |
| Oil and grease limit (mg/L) | 10 | | | |
| | Water Quality | Results | | |
| Date | рН | TSS (mg/L) | Oil and grease (mg/L) | Electrical Conductivity (μS/cm) |
| 2/09/2025 | 7.86 | 6 | <5 | 16100 |
| 9/09/2025 | 7.71 | 11 | <5 | 27900 |
| 17/09/2025 | 7.95 | 9 | <5 | 2240 |
| 24/09/2025 | 7.98 | 20 | <5 | 1500 |
| | | | | |
| Average | 7.875 | 11.5 | <5 | 11935 |

There were no exceedances of water quality criteria in September 2025 at Mannering Colliery.

Monthly water quality results, primarily metals and metalloids, at LDP001 are presented below.

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| b-Matrix: WATER latrix: WATER) | | Sample ID | LDP001 |
|---|------|----------------|-------------------|
| | | ng date / time | 24-Sep-2025 09:30 |
| ompound CAS Number | LOR | Unit | EN2516321-001 |
| D040F: Dissolved Major Anions | | | Result |
| Sulfur as S 63705-05-5 | 1 | mg/L | 10 |
| Silicon as SiO2 14464-46-1 | 0.1 | mg/L | 3.5 |
| D093T: Total Major Cations | | | |
| Calcium 7440-70-2 | 1 | mg/L | 24 |
| Magnesium 7439-95-4 | 1 | mg/L | 15 |
| Potassium 7440-09-7 | 1 | mg/L | 4 |
| G020F: Dissolved Metals by ICP-MS | | | |
| Aluminium 7429-90-5 | 10 | μg/L | <10 |
| Arsenic 7440-38-2 | 1 | μg/L | 3 |
| Beryllium 7440-41-7 | 1 | µg/L | <1 |
| Cadmium 7440-43-9 | 0.1 | µg/L | <0.1 |
| Cobalt 7440-47-3 | 1 | µg/L | <1 |
| 1440-40-4 | 1 | µg/L | <1 |
| Copper 7440-50-8 Lead 7439-92-1 | 1 | μg/L | <1 |
| Manganese 7439-96-5 | 1 | μg/L μg/L | 5 |
| Molybdenum 7439-98-7 | 1 | µg/L µg/L | 2 |
| Nickel 7440-02-0 | 1 | μg/L | <1 |
| Selenium 7782-49-2 | 10 | μg/L | <10 |
| Silver 7440-22-4 | 1 | μg/L | <1 |
| Vanadium 7440-62-2 | 10 | μg/L | <10 |
| Zinc 7440-66-6 | 5 | μg/L | 6 |
| G020T: Total Metals by ICP-MS | | pgr | |
| Aluminium 7429-90-5 | 10 | μg/L | 1010 |
| Antimony 7440-36-0 | 1 | µg/L | 4 |
| Arsenic 7440-38-2 | 1 | μg/L | 4 |
| Beryllium 7440-41-7 | 1 | μg/L | <1 |
| G020T: Total Metals by ICP-MS - Continued | | | To the state of |
| Barium 7440-39-3 | 1 | μg/L | 169 |
| Cadmium 7440-43-9 | 0.1 | μg/L | <0.1 |
| Chromium 7440-47-3 | 1 | μg/L | <1 |
| Cobalt 7440-48-4 | 1 | μg/L | <1 |
| Copper 7440-50-8 | 1 | μg/L | <1 |
| Lead 7439-92-1 | 1 | µg/L | 1 |
| Lithium 7439-93-2 | 1 | µg/L | 35 |
| Molybdenum 7439-98-7 | 1 | µg/L | 4 |
| Nickel 7440-02-0 | 1 | µg/L | <1 |
| Selenium 7782-49-2 | 10 | µg/L | <10 |
| Silver 7440-22-4 | 1 | µg/L | <1 |
| Tin 7440-31-5 | 1 | µg/L | <1 |
| Titanium 7440-32-6 | 10 | µg/L | <10 |
| Vanadium 7440-62-2 | 10 | µg/L | <10 |
| Zinc 7440-66-6 | 5 | µg/L | 13 |
| Boron 7440-42-8 | 50 | µg/L | <50 |
| Iron 7439-89-6 | 50 | µg/L | 270 |
| G035F: Dissolved Mercury by FIMS | 6.4 | | |
| Mercury 7439-97-6 | 0.1 | µg/L | <0.1 |
| G035T: Total Recoverable Mercury by FIMS | 0.4 | , and | -0.4 |
| Mercury 7439-97-6 | 0.1 | µg/L | <0.1 |
| K055G: Ammonia as N by Discrete Analyser Ammonia as N 7664-41-7 | 0.01 | mg/L | 0.02 |
| | 0.01 | mg/L | 0.02 |
| (067G: Total Phosphorus as P by Discrete Analyser | | | |
| Total Phosphorus as P | 0.01 | mg/L | 0.02 |

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Water - Volume

Monthly water volumes discharged via MC's LDP1 during September 2025 at Mannering Colliery are summarised below.

EPL 191

Licensee Great Southern Energy Pty Ltd

Premises Mannering Colliery

Date Sampled Daily

Discharge volume limit 4000 kilolitres per day Sampling Point LDP001 (EPA ID # 1)

| Date (24 hour period) | LDP 1 Volume (kL/day) | Rainfall (mm) |
|-----------------------|-----------------------|---------------|
| 01/09/2025 | 1052.91 | 0 |
| 02/09/2025 | 1027.07 | 0 |
| 03/09/2025 | 2122.85 | 0 |
| 04/09/2025 | 1254.65 | 0 |
| 05/09/2025 | 929.61 | 0 |
| 06/09/2025 | 710.32 | 0 |
| 07/09/2025 | 778.72 | 0 |
| 08/09/2025 | 735.31 | 0 |
| 09/09/2025 | 836.21 | 0.4 |
| 10/09/2025 | 1968.72 | 56.6 |
| 11/09/2025 | 2438.4 | 9 |
| 12/09/2025 | 1153.72 | 0 |
| 13/09/2025 | 1007.71 | 0 |
| 14/09/2025 | 79.56 | 0 |
| 15/09/2025 | 322.92 | 0 |
| 16/09/2025 | 128.17 | 0 |
| 17/09/2025 | 4.37 | 0 |
| 18/09/2025 | 272.1 | 0 |
| 19/09/2025 | 409.26 | 0 |
| 20/09/2025 | 475.64 | 2 |
| 21/09/2025 | 591.14 | 0 |
| 22/09/2025 | 909.68 | 40.4 |
| 23/09/2025 | 1473.81 | 0 |
| 24/09/2025 | 273.58 | 0 |
| 25/09/2025 | 812.66 | 0 |
| 26/09/2025 | 1472.1 | 0 |
| 27/09/2025 | 1477.94 | 0 |
| 28/09/2025 | 1482.95 | 0.4 |
| 29/09/2025 | 1478.33 | 0 |
| 30/09/2025 | 1433.26 | 0 |

| Average | 970 kL/day | 4 mm/day |
|---------|-------------|-------------|
| Maximum | 2438 kL/day | 56.6 mm/day |

Volumetric discharge remained below the daily limit of 4,000 kL per day.

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Water – Groundwater Discharge

Groundwater discharged from underground workings to the MCs surface retention Dams has been detailed below. Mannering Colliery operates Water Access License 40461 permitting the extraction of 450 megalitres per financial year and reports annual use to the Water NSW, Water Accounting System (iWAS).

| MC Groundwater Pumped to Surface | | | | | |
|----------------------------------|-------------------------|----------------------------------|--|--|--|
| | Totals FY2025-2026 | | | | |
| Date (month) | GW Discharge (ML/Month) | GW Discharge (Cumulative ML YTD) | | | |
| July 2025 | 22 | 22 | | | |
| August 2025 | 24 | 46 | | | |
| September 2025 | 20 | 66 | | | |

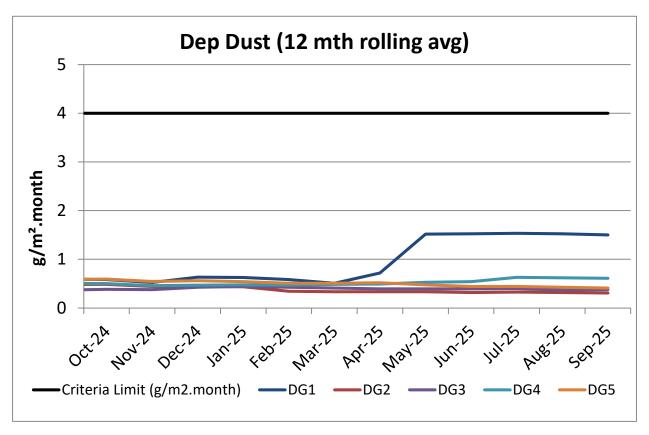
Air Quality – Depositional Dust

Monthly depositional dust results are shown below.

| | | September 2025 | |
|---------------|---------------------------------|--------------------------|-------------------------------|
| EPL | 191 | | |
| Limits | Max. total deposited dust level | | 4g/m²/month |
| Lillits | Max. increase in depo | sited dust level | 2g/m²/month |
| Sampling Date | 7/08/2025 – 5/09/202 | 25 | |
| EPA I | D no. | Site | Insoluble Matter (g/m2/month) |
| | 3 | DG1 | 0.2 |
| | 4 | DG2 | 0.1 |
| ! | 5 | DG3 | 0.3 |
| | 6 | DG4 | 0.3 |
| | 7 | DG5 | 0.3 |
| Sar | npling locations provide | ed in Delta Coal Air Qu | ality and Greenhouse |
| Notes: Gas | s Management Plan ava | ailable on the Delta Coa | al website. |

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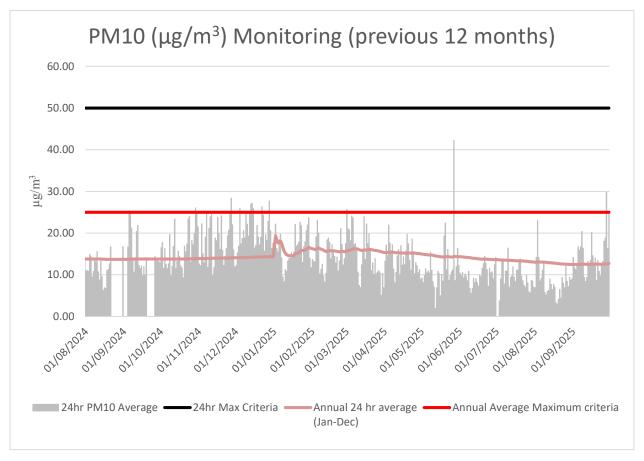
A 12-month rolling average of depositional dust concentrations has been presented below. Mannering Colliery's dust gauges are located around the perimeter of the Mannering Colliery site boundary.



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Air Quality - PM₁₀

The 24hr PM_{10} average from Delta Coal's Tapered Element Osciliating Microbalance (TEOM), located at the Mannering Park Sewage Treatment Plant, is presented below for the previous 12 months.



Annual 24hr PM_{10} average maximum criteria for September 2025 was below the annual average maximum criteria limit. A summary of data availability for Delta Coal's TEOM is presented below for the reporting period. Delta Coals TEOM had a data availability of 99.2% for the month of September 2025.

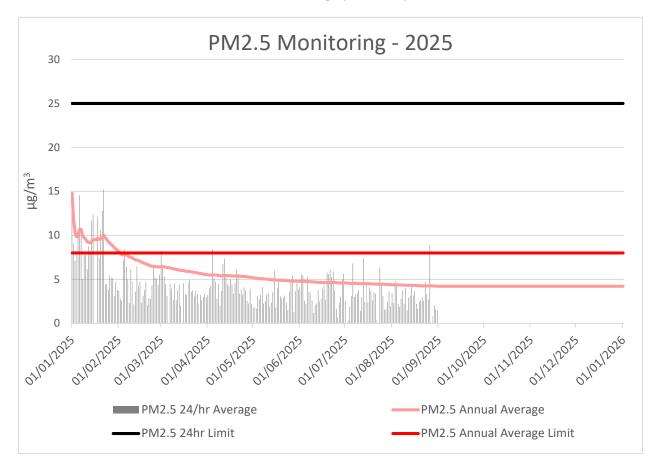
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| Variable | September | Total | Valid |
|--------------------|-----------|-------|-------|
| A/C Temp | 100% | 8640 | 8640 |
| A1_Scaled | 100% | 8640 | 8640 |
| Band | 100% | 8640 | 8640 |
| Bypass Flow | 100% | 8640 | 8640 |
| Cap Temp | 100% | 8640 | 8640 |
| Case Temp | 100% | 8640 | 8640 |
| Config | 100% | 8640 | 8640 |
| Dew Point | 100% | 8640 | 8640 |
| Dig-In | 100% | 8640 | 8640 |
| Dig-Latch | 100% | 8640 | 8640 |
| ESN | 100% | 8640 | 8640 |
| Filter Freq | 100% | 8640 | 8640 |
| Filter Load | 100% | 8640 | 8640 |
| Humidity | 100% | 8640 | 8640 |
| MC | 100% | 8640 | 8640 |
| MC 12Hr | 100% | 8640 | 8640 |
| MC 1Hr | 100% | 8640 | 8640 |
| MC 24Hr | 100% | 8640 | 8640 |
| MC 30min | 100% | 8640 | 8640 |
| MC 8Hr | 100% | 8640 | 8640 |
| MC Total | 100% | 8640 | 8640 |
| Mobile Signal | 100% | 8640 | 8640 |
| Noise | 100% | 8640 | 8640 |
| PM10 Flow | 100% | 8640 | 8640 |
| Pressure | 100% | 8640 | 8640 |
| Site | 0.0% | 8640 | 0 |
| Temperature | 100% | 8640 | 8640 |
| Tube Temp | 100% | 8640 | 8640 |
| Vac Pressure | 100% | 8640 | 8640 |
| Volts | 100% | 8640 | 8640 |

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Air Quality - PM2.5

Delta Coal utilises PM_{2.5} data obtained from Delta Electricity owned and operated beta attenuation monitor (BAM). The PM_{2.5} monitor is located on Tingley Road, Wyee.



There were no exceedances of the PM_{2.5} daily average limit in September 2025. The 12-month rolling average PM_{2.5} value on 30 September was 4.3 $\mu g/m^3$. PM_{2.5} data availability in September was 99.7%. The 2025 year to date PM_{2.5} data availability is 93.4%.

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Weather Data

A summary of weather data recorded by a meteorological monitoring station at the adjacent Mannering Colliery is presented below for the year to date. (EPA ID no. 26).

| | Monthly Weather Data 202 | 5 | |
|----------------|---|----------|----------|
| Licensee | Great Southern Energy Pty Ltd | | |
| Location | Mannering Colliery Meteorological station | | |
| Date published | Refer report date | | |
| Date sampled | Daily | | |
| Date obtained | 8 October 2025 | | |
| Month | Total Rainfall/Month (mm) | Min Temp | Max Temp |
| Jan-25 | 237 | 11.9 | 41.3 |
| Feb-25 | 31 | 12.5 | 33.8 |
| Mar-25 | 138 | 15.4 | 36.3 |
| Apr-25 | 232 | 11 | 29.4 |
| May-25 | 387 | 7.5 | 26 |
| Jun-25 | 37.8 | 2.8 | 22.2 |
| July-25 | 131 | 2.1 | 22.1 |
| Aug-25 | 286 | 2.6 | 24.2 |
| Sep-25 | 109 | 5.4 | 28.6 |

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| Variable | August | Total | Valid |
|------------------------|--------|-------|-------|
| Baro (Corrected) | 100% | 2976 | 2976 |
| 10m Temp | 100% | 2976 | 2976 |
| 2m Temp | 100% | 2976 | 2976 |
| A1 | 100% | 2976 | 2976 |
| A1_Scaled | 100% | 2976 | 2976 |
| Assumed Temp | 100% | 2976 | 2976 |
| Barometric | 100% | 2976 | 2976 |
| Config | 100% | 2976 | 2976 |
| Daily Evap | 100% | 2976 | 2976 |
| Daily Rain | 100% | 2976 | 2976 |
| Delta T | 100% | 2976 | 2976 |
| Dew Point | 100% | 2976 | 2976 |
| Dig-In | 100% | 2976 | 2976 |
| Dig-Latch | 100% | 2976 | 2976 |
| ESN | 100% | 2976 | 2976 |
| FDI | 100% | 2976 | 2976 |
| Heat Index | 100% | 2976 | 2976 |
| Humidity | 100% | 2976 | 2976 |
| Mobile Signal | 100% | 2976 | 2976 |
| Rain | 100% | 2976 | 2976 |
| Raw Evap | 100% | 2976 | 2976 |
| S Class | 100% | 2976 | 2976 |
| Scalar WS | 100% | 2976 | 2976 |
| Sigma | 100% | 2976 | 2976 |
| Site | 0.0% | 2976 | 0 |
| Solar Radiation | 100% | 2976 | 2976 |
| Vector WD | 100% | 2976 | 2976 |
| Vector WS | 100% | 2976 | 2976 |
| Volts | 100% | 2976 | 2976 |
| Wind Chill | 100% | 2976 | 2976 |
| Wind Direction | 100% | 2976 | 2976 |
| Wind Speed | 100% | 2976 | 2976 |
| WS Avg | 100% | 2976 | 2976 |
| WS Gust | 100% | 2976 | 2976 |