

Mannering Colliery Monthly Website Report – April 2025

| Site: | Mannering Colliery |
|-----------------|---|
| Department: | Health Safety and Environment |
| Report Title: | Monthly Environmental Report – April 2025 |
| Report Date: | 12 th May 2025 |
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Mannering Colliery Monthly Environmental Report – April 2025

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Summary

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

Mannering Colliery Monthly Environmental Report - April 2025

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.
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References

Project Approval MP06_0311 (as modified)

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

ALS - Dust Deposition Report April 2025

ALS - MC Water Analysis Reports April 2025

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Monitoring Results

| Water – Qual | ality | |
|--------------|-------|--|
| | | |

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

| April 2025 | | | | | | |
|-----------------------------|--|--------|--------|---------|--|--|
| EPL | 191 | | | | | |
| Licensee | Great Southern Energy 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 R | esults | | | | |
| | Oil and Electrical TSS grease Conductivity | | | | | |
| Date | рН | (mg/L) | (mg/L) | (μS/cm) | | |
| 1/4/2025 | 7.83 | 14 | <5 | 19400 | | |
| 9/4/2025 | 7.76 | 8 | <5 | 28000 | | |
| 15/4/2025 | 7.7 | 10 | <5 | 28100 | | |
| 23/04/2025 | 7.97 | 9 | <5 | 5980 | | |
| | | | | | | |
| Average | 7.82 | 10.25 | <5 | 20370 | | |

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

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

Mannering Colliery Monthly Environmental Report – April 2025

| | | Samplii | ng date / time | 15-Apr-2025 08:15 |
|--|---|--|---|--|
| mpound | CAS Number | LOR | Unit | EN2506202-001 |
| npound | orio riambor | | | Result |
| 040T: Total Major Anions Sulfur as S | | | | 450 |
| Silicon | 63705-05-5 | 0.05 | mg/L mg/L | 153 6.45 |
| | 7440-21-3 | 0.05 | IIIg/L | 6.45 |
| 093T: Total Major Cations | 7440-70-2 | 1 | mg/L | 254 |
| Magnesium | 7439-95-4 | 1 | mg/L | 321 |
| Sodium | 7440-23-5 | 1 | mg/L | 6080 |
| Potassium | 7440-23-3 | 1 | mg/L | 43 |
| | 7440-03-7 | | 5.2 | |
| 020F: Dissolved Metals by ICP-MS Numinium | 7429-90-5 | 0.01 | mg/L | <0.01 |
| Bilver | 7440-22-4 | 0.001 | mg/L | <0.001 |
| Arsenic | 7440-38-2 | 0.001 | mg/L | <0.001 |
| Beryllium | 7440-41-7 | 0.001 | mg/L | <0.001 |
| Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 |
| Cobalt | 7440-48-4 | 0.001 | mg/L | <0.001 |
| Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 |
| Copper | 7440-50-8 | 0.001 | mg/L | <0.001 |
| Manganese | 7439-96-5 | 0.001 | mg/L | 0.060 |
| Molybdenum | 7439-90-3 | 0.001 | mg/L | 0.010 |
| lickel | 7440-02-0 | 0.001 | mg/L | 0.003 |
| ead | 7439-92-1 | 0.001 | mg/L | <0.001 |
| Selenium | 7782-49-2 | 0.01 | mg/L | <0.01 |
| /anadium | 7440-62-2 | 0.01 | mg/L | <0.01 |
| linc | 7440-66-6 | 0.005 | mg/L | 0.038 |
| | 1440 00 0 | | 5 | |
| 020T: Total Metals by ICP-MS | 7429-90-5 | 0.01 | mg/L | <0.01 |
| Bilver | 7440-22-4 | 0.001 | mg/L | <0.001 |
| Arsenic | 7440-38-2 | 0.001 | mg/L | <0.001 |
| | | | | |
| 020T: Total Metals by ICP-MS - Conti Boron | 7440-42-8 | 0.05 | mg/L | 0.47 |
| Barium | 7440-39-3 | 5.00 | J | |
| | | 0.001 | ma/L | 0.245 |
| Bervllium | 1 11 12 12 12 12 | 0.001 | mg/L mg/L | |
| | 7440-41-7 | 0.001 | mg/L | <0.001 |
| Cadmium | 7440-41-7 7440-43-9 | 0.001 | mg/L mg/L | <0.001 <0.0001 |
| Cadmium Cobalt | 7440-41-7 7440-43-9 7440-48-4 | 0.001 0.0001 0.001 | mg/L mg/L mg/L | <0.001 <0.0001 <0.001 |
| Cadmium Cobalt Chromium | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 | 0.001 0.0001 0.001 0.001 | mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.001 <0.001 |
| Cadmium Cobalt Chromium Copper | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 | 0.001 0.0001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.001 <0.001 <0.001 |
| Cadmium Cobalt Chromium Copper | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 | 0.001 0.0001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.001 <0.001 <0.001 0.629 |
| Cadmium Cobalt Chromium Copper Jithium | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 | 0.001 0.0001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.001 <0.001 <0.001 0.629 |
| Cadmium Cobalt Chromium Copper Lithium Manganese Molybdenum | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-98-7 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.001 <0.001 <0.001 0.629 0.060 0.013 |
| Cobalt Chromium Copper Lithium Inaganese Inolybdenum | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-98-7 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.001 <0.001 0.029 0.060 0.013 0.003 |
| Cobalt Chromium Copper Ithium Itanganese Itolybdenum Ilickel | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-98-7 7440-02-0 7439-92-1 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.003 <0.0001 |
| Cadmium Cobalt Chromium Copper Ithium Itanganese Itolybdenum Itickel Lead | 7440-41-7 7440-43-9 7440-48-4 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.001 <0.001 <0.001 0.629 0.060 0.013 0.003 <0.001 |
| Cadmium Cobalt Chromium Copper Lithium Manganese Molybdenum Lickel Lead Lontimony Selenium | 7440-41-7 7440-43-9 7440-48-4 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.003 <0.0001 <0.0001 |
| Cadmium Cobalt Chromium Copper Cithium Manganese Molybdenum Clickel Lead Lead Lead Lead Lead Lead Lead Lead | 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-92-1 7440-36-0 7782-49-2 7440-31-5 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.001 <0.001 0.629 0.060 0.013 0.003 <0.001 <0.001 <0.001 |
| Cadmium Cobalt Chromium Copper Cithium Manganese Molybdenum Cickel Cead Continuony Celenium Cin | 7440-41-7 7440-43-9 7440-48-4 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-31-5 7440-28-0 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.001 0.629 0.060 0.013 0.003 <0.001 <0.001 <0.001 <0.001 |
| Cadmium Cobalt Chromium Copper Cithium Manganese Molybdenum Clickel Cead Continuony Celenium Cin Challium | 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-92-1 7440-36-0 7782-49-2 7440-31-5 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.001 0.629 0.060 0.013 0.003 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Cadmium Cobalt Chromium Copper Cithium Manganese Molybdenum Clickel Cead Continuony Celenium Cin Challium | 7440-41-7 7440-43-9 7440-48-4 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-31-5 7440-28-0 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.001 0.629 0.060 0.013 0.003 <0.001 <0.001 <0.001 <0.001 |
| cadmium cobalt chromium copper dithium fanganese folybdenum lickel cead untimony celenium in challium /anadium | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-31-5 7440-28-0 7440-62-2 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.001 0.629 0.060 0.013 0.003 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| cadmium cobalt chromium copper lithium flanganese flolybdenum lickel lead untimony felenium fin fhallium ranadium con con costs: Dissolved Mercury by FIMS | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-28-0 7440-62-2 7440-66-6 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| cadmium cobalt chromium copper lithium flanganese flolybdenum lickel lead untimony felenium fin fhallium ranadium con con costs: Dissolved Mercury by FIMS | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-28-0 7440-62-2 7440-66-6 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.003 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.000 |
| cadmium cobalt chromium copper ithium flanganese folybdenum lickel lead antimony celenium cin challium fanadium cinc con 035F: Dissolved Mercury by FIMS flercury | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-92-1 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-66-6 7439-89-6 | 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.0003 <0.0001 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| cadmium cobalt chromium copper ithium flanganese folybdenum lickel lead antimony celenium cin challium fanadium cinc con 035F: Dissolved Mercury by FIMS flercury | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-92-1 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-31-5 7440-66-6 7439-89-6 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.003 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Seryllium Cadmium Cadmium Cobalt Chromium Copper Lithium Manganese Molybdenum Mickel Lead Antimony Selenium Cin Challium Manadium Cinc Cron Castric Dissolved Mercury by FIMS Mercury Castric Total Recoverable Mercury by Mercury Costs: Ammonia as N | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-98-7 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-31-5 7440-62-2 7440-66-6 7439-89-6 7439-97-6 | 0.001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.0003 <0.0001 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 |
| cadmium cobalt chromium copper ithium Manganese Molybdenum lickel ead antimony felenium in challium /anadium cinc con 035F: Dissolved Mercury by FIMS Mercury Mercury | 7440-41-7 7440-43-9 7440-48-4 7440-47-3 7440-50-8 7439-93-2 7439-96-5 7439-92-1 7440-02-0 7439-92-1 7440-36-0 7782-49-2 7440-66-6 7439-89-6 | 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.005 | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | <0.001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 0.629 0.060 0.013 0.0003 <0.0001 <0.0001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |

Mannering Colliery Monthly Environmental Report - April 2025

Water - Volume

Monthly water volumes discharged via MC's LDP1 during April 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) |
|-----------------------|-----------------------|---------------|
| 01/04/2025 | 1363.82 | 0.8 |
| 02/04/2025 | 191.28 | 0 |
| 03/04/2025 | 2021.48 | 0 |
| 04/04/2025 | 1639.9 | 0 |
| 05/04/2025 | 1289.3 | 0 |
| 06/04/2025 | 1139.18 | 0 |
| 07/04/2025 | 1079.93 | 0 |
| 08/04/2025 | 975.66 | 5.8 |
| 09/04/2025 | 957.35 | 0.2 |
| 10/04/2025 | 931.64 | 0 |
| 11/04/2025 | 1142.02 | 0.2 |
| 12/04/2025 | 1655.76 | 0 |
| 13/04/2025 | 1510.98 | 0.2 |
| 14/04/2025 | 1123.06 | 3.4 |
| 15/04/2025 | 901.41 | 4.6 |
| 16/04/2025 | 235.2 | 2.4 |
| 17/04/2025 | 689.1 | 6.4 |
| 18/04/2025 | 1161.64 | 0.2 |
| 19/04/2025 | 1186.8 | 0 |
| 20/04/2025 | 1223.63 | 0 |
| 21/04/2025 | 676.22 | 0 |
| 22/04/2025 | 885.45 | 27.6 |
| 23/04/2025 | 905.34 | 1.4 |
| 24/04/2025 | 1210.22 | 0 |
| 25/04/2025 | 1283.7 | 9.4 |
| 26/04/2025 | 1073.58 | 2 |
| 27/04/2025 | 4505.3 | 111.6 |
| 28/04/2025 | 3674.78 | 18.8 |
| 29/04/2025 | 1641.14 | 11.8 |
| 30/04/2025 | 2301.29 | 25.2 |

| Average | 1352.54 kL/day | 7.73 mm/day |
|---------|----------------|--------------|
| Maximum | 4505.30 kL/day | 111.6 mm/day |

There was one exceedance of the 4,000 kL per day on 27th April 2025 which was solely as a result of rainfall at the premises exceeding 10mm during the 24 hours immediately prior to the commencement of discharge. Volumetric discharge remained below the daily limit of 4,000 kL per day for every other day.

Mannering Colliery Monthly Environmental Report - April 2025

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 FY2024-2025 | | | | |
|---|-------------------------|----------------------------------|--|--|
| Date (month) | GW Discharge (ML/Month) | GW Discharge (Cumulative ML YTD) | | |
| July 2024 | 14 | 14 | | |
| August 2024 | 25 | 39 | | |
| September 2024 | 20 | 59 | | |
| October 2024 | 26 | 85 | | |
| November 2024 | 19 | 104 | | |
| December 2024 | 18 | 122 | | |
| January 2025 | 22 | 144 | | |
| February 2025 | 19 | 163 | | |
| March 2025 | 30 | 193 | | |
| April 2025 | 22 | 215 | | |

Air Quality – Depositional Dust

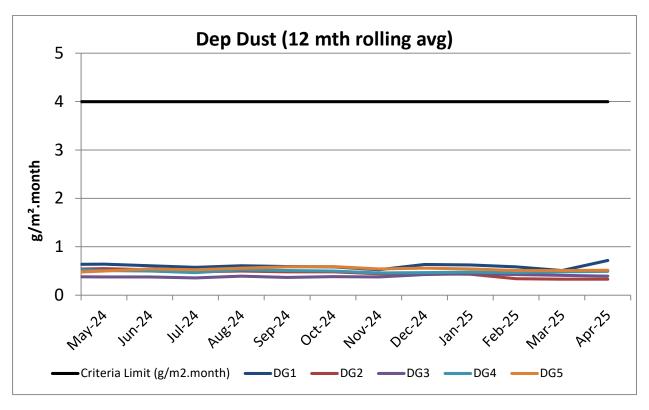
Monthly depositional dust results are shown below.

| April 2025 | | | | |
|---------------|---------------------------------|-------------------------|-------------------------------|--|
| EPL | 191 | | | |
| | Max. total deposited dust level | | 4g/m²/month | |
| Limits | Max. increase in depo | sited dust level | 2g/m²/month | |
| Sampling Date | 5/03/2025 - 4/04/202 | 25 | | |
| EPA | ID no. | Site | Insoluble Matter (g/m2/month) | |
| | 3 | DG1 | 2.6 | |
| | 4 | DG2 | 0.2 | |
| | 5 | DG3 | 0.1 | |
| | 6 | DG4 | 0.4 | |
| | 7 | DG5 | 0.4 | |
| Sar | npling locations provide | ed in Delta Coal Air Q | uality and Greenhouse | |
| Notes: Gas | s Management Plan ava | ailable on the Delta Co | oal website. | |

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.

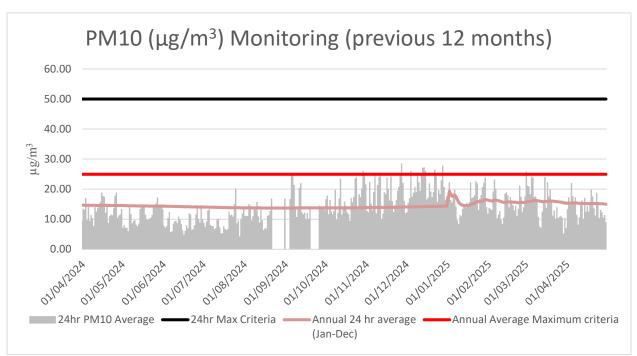
The April DDG1 result increased by more than 2g/m2/month from the previous month. DDG1 was 2.6g/m2/month, compared to 0.1g/m2/month the previous month.

Mannering Colliery Monthly Environmental Report - April 2025



Air Quality $-PM_{10}$

The 24hr PM₁₀ 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 April 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 100% for the month of April 2025.

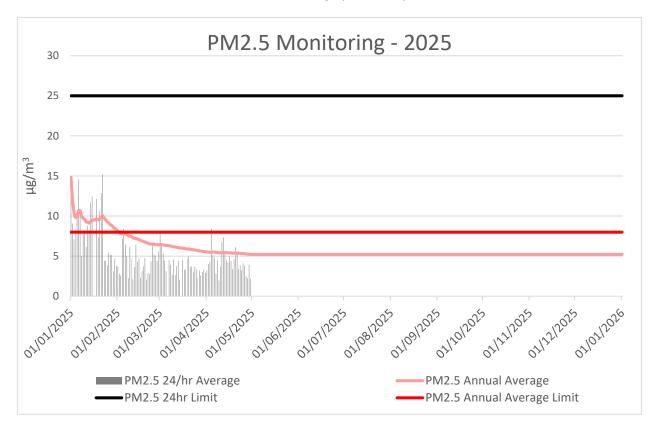
Mannering Colliery Monthly Environmental Report – April 2025

| Variable | April | 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 |

Mannering Colliery Monthly Environmental Report - April 2025

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 April 2025. The 12-month rolling average PM_{2.5} value on 30 April was 5.21 $\mu g/m^3$. PM_{2.5} data availability in April was 98%. The 2025 year to date PM_{2.5} data availability is 91.42%.

Mannering Colliery Monthly Environmental Report - April 2025

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 2025 | | | | |
|---------------------------|---|-------------------|----------|--|
| Licensee | Great Southern Energy Pty Ltd | | | |
| Location | Mannering Colliery Meteorological station | | | |
| Date published | Refer report date | Refer report date | | |
| Date sampled | Daily | | | |
| Date obtained | 12 May 2025 | | | |
| Month | Total Rainfall/Month (mm) | Min Temp | Max Temp | |
| Jan-24 | 237 | 11.9 | 41.3 | |
| Feb-24 | 31 | 12.5 | 33.8 | |
| Mar-25 | 138 | 15.4 | 36.3 | |
| May-25 | 232 | 11 | 29.4 | |

Mannering Colliery Monthly Environmental Report – April 2025

| Variable | April | Total | Valid |
|------------------------|-------|-------|-------|
| Baro (Corrected) | 100% | 2880 | 2879 |
| 10m Temp | 100% | 2880 | 2879 |
| 2m Temp | 100% | 2880 | 2879 |
| A1 | 100% | 2880 | 2879 |
| A1_Scaled | 100% | 2880 | 2879 |
| Assumed Temp | 100% | 2880 | 2879 |
| Barometric | 100% | 2880 | 2879 |
| Config | 100% | 2880 | 2879 |
| Daily Evap | 100% | 2880 | 2879 |
| Daily Rain | 100% | 2880 | 2879 |
| Delta T | 100% | 2880 | 2879 |
| Dew Point | 100% | 2880 | 2879 |
| Dig-In | 100% | 2880 | 2879 |
| Dig-Latch | 100% | 2880 | 2879 |
| ESN | 100% | 2880 | 2879 |
| FDI | 100% | 2880 | 2879 |
| Heat Index | 100% | 2880 | 2879 |
| Humidity | 100% | 2880 | 2879 |
| Mobile Signal | 100% | 2880 | 2879 |
| Rain | 100% | 2880 | 2879 |
| Raw Evap | 100% | 2880 | 2879 |
| S Class | 100% | 2880 | 2879 |
| Scalar WS | 100% | 2880 | 2879 |
| Sigma | 100% | 2880 | 2879 |
| Site | 0.0% | 2880 | 0 |
| Solar Radiation | 100% | 2880 | 2879 |
| Vector WD | 100% | 2880 | 2879 |
| Vector WS | 100% | 2880 | 2879 |
| Volts | 100% | 2880 | 2879 |
| Wind Chill | 100% | 2880 | 2879 |
| Wind Direction | 100% | 2880 | 2879 |
| Wind Speed | 100% | 2880 | 2879 |
| WS Avg | 100% | 2880 | 2879 |
| WS Gust | 100% | 2880 | 2879 |