

# Mannering Colliery Monthly Website Report

Site:	Mannering Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report – July 2020
Prepared by:	Lachlan McWha
Report Date:	5 <sup>th</sup> August 2020
Distribution:	Delta Coal website

# **Monthly Website Report**

**Mannering Colliery Monthly Environmental Report** 

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**Mannering Colliery Monthly Environmental Report** 

### **Summary**

Environmental monitoring results are presented in this report for monitoring undertaken during the period of July 2020.

### Introduction

Great Southern Energy Pty Ltd (trading as Delta Coal) operates the 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).

This report provides environmental monitoring data from Mannering Colliery for the period 1<sup>st</sup> to 31<sup>st</sup> July 2020.

Details of the Mannering Colliery EPL 191 are provided below.

Mannering Coll	Mannering Colliery Information		
Premises name	Mannering Colliery		
Address	Ruttleys Road, Doyalson, NSW, 2262		
Licensee	Great Southern Energy Pty Ltd		
EPL#	191		
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50781&SYS UID=1&LICID=191		

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** 

### 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; and
- Weather 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 06\_0311 (as modified)

Environment Protection Licence 191 (Licence version date: 25 November 2019)

Steel River Testing - Dust Deposition Report July 2020

Steel River Testing - Water Analysis Report July 2020

ALS - Water Analysis Report July 2020

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**Mannering Colliery Monthly Environmental Report** 

### **Monitoring Results**

Water – Quality	
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Weekly water quality results for discharge point LDP001 are presented below. Monitoring of these parameters have reverted to weekly as per EPL PRP requirements.

	July 2020		
EPL	191		
Licensee	Great Southern Energy Pty Ltd		
Premises	Mannering Colliery		
Period	01-Jul-20	to	31-Jul-20
Location	LDP001 (EPA ID # 1)		
Date sampled	Weekly		
Date reported	Refer report date		
Monitoring requirement	Weekly		
pH limit	6.5 - 8.5		
TSS limit (mg/L)	50		
Oil and grease limit (mg/L)	10		
Exceedance (Yes/No)	No		

Water Quality Results				
Date	рН	TSS (mg/L)	Oil and grease (mg/L)	
	·			
Wednesday, 1 July 2020	7.8	1	<5	
Thursday, 2 July 2020				
Friday, 3 July 2020				
Saturday, 4 July 2020				
Sunday, 5 July 2020				
Monday, 6 July 2020	7.9	1	<5	
Tuesday, 7 July 2020				
Wednesday, 8 July 2020				
Thursday, 9 July 2020				
Friday, 10 July 2020				
Saturday, 11 July 2020				
Sunday, 12 July 2020				
Monday, 13 July 2020				
Tuesday, 14 July 2020				
Wednesday, 15 July 2020	7.8	1	<5	
Thursday, 16 July 2020				
Friday, 17 July 2020				
Saturday, 18 July 2020				
Sunday, 19 July 2020				
Monday, 20 July 2020				
Tuesday, 21 July 2020	7.7	10	<5	

### **Mannering Colliery Monthly Environmental Report**

Wednesday, 22 July 2020			
Thursday, 23 July 2020			
Friday, 24 July 2020			
Saturday, 25 July 2020			
Sunday, 26 July 2020			
Monday, 27 July 2020			
Tuesday, 28 July 2020			
Wednesday, 29 July 2020			
Thursday, 30 July 2020	7.8	45	<5
Friday, 31 July 2020			

Average	7.8	11.6	<5
Minimum	7.7	1.0	<5
Maximum	7.9	45.0	<5

The water quality analytical results during the reporting period did not exceed the water quality criteria imposed at the site.

### **Mannering Colliery Monthly Environmental Report**

Monthly water quality results, primarily metals, at LDP001 are presented below for June 2020.

b-Matrix: WATER atrix: WATER)		Clie	ent sample ID	LDP001
	Clie	ent sampli	ing date / time	21-Jul-2020 11:00
ompound	CAS Number	LOR	Unit	E\$2024988-001
				Result
A010P: Conductivity by PC Titrator				
Electrical Conductivity @ 25°C		1	μS/cm	25400
0040F: Dissolved Major Anions				
Sulfur as S	63705-05-5	1	mg/L	156
Silicon as SiO2	14464-46-1	0.1	mg/L	14.0
0093T: Total Major Cations				
Calcium	7440-70-2	1	mg/L	205
Magnesium	7439-95-4	1	mg/L	312
Potassium	7440-09-7	1	mg/L	41
6020F: Dissolved Metals by ICP-MS				
Aluminium	7429-90-5	10	μg/L	<10
Arsenic	7440-38-2	1	μg/L	<1
Beryllium Cadmium	7440-41-7 7440-43-9	0.1	μg/L	<0.1
Chromium	7440-43-9	1	μg/L μg/L	<0.1
Cobalt	7440-47-3	1	μg/L	<1
Copper	7440-50-8	1	μg/L	<1
ead	7439-92-1	1	µg/L	<1
Manganese	7439-96-5	1	μg/L	50
Molybdenum	7439-98-7	1	μg/L	5
lickel	7440-02-0	1	μg/L	4
Selenium	7782-49-2	10	μg/L	<10
Silver	7440-22-4	1	μg/L	<1
/anadium	7440-62-2	10	μg/L	<10
Zinc	7440-66-6	5	μg/L	<5
6020T: Total Metals by ICP-MS				
Aluminium	7429-90-5	10	μg/L	<10
Antimony	7440-36-0	1	μg/L	<1
Arsenic	7440-38-2	1	μg/L	3
Beryllium	7440-41-7	1	μg/L	<1
Barium	7440-39-3	1	μg/L	222
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 <1
Lead Lithium	7439-92-1	1	µg/L	664
Molybdenum	7439-93-2 7439-98-7	1	μg/L μg/L	5
Nickel	7440-02-0	1	µg/L	5
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	<5
Boron	7440-42-8	50	μg/L	390
Iron	7439-89-6	50	μg/L	100
G035F: Dissolved Mercury by FIMS				
GUJJI . DISSUIVEU MEI CUI V DV I IMS	7439-97-6	0.1	μg/L	<0.1
Mercury				
Mercury G035T: Total Recoverable Mercury by F		0.1	μg/L	<0.1
Mercury G035T: Total Recoverable Mercury by F Mercury	IMS 7439-97-6	0.1	µg/L	<0.1
Mercury G035T: Total Recoverable Mercury by F Mercury K055G: Ammonia as N by Discrete Analy Ammonia as N	IMS 7439-97-6	0.1	μg/L mg/L	<0.1

#### **Mannering Colliery Monthly Environmental Report**

Water – Volume

Monthly water volumes at Mannering Colliery are summarised below.

July 2020		
EPL	191	
Licensee	Great Southern Energy Pty Ltd	
Premises	Mannering Colliery	
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	4000 kilolitres per day	
Sampling Point	LDP001 (EPA ID # 1)	

Name	Day	Unit	Volume
Name	01/07/2020	kL	808
04/07/2020       kl       115         05/07/2020       kl       1390         06/07/2020       kl       2047         07/07/2020       kl       1238         08/07/2020       kl       1030         08/07/2020       kl       593         10/07/2020       kl       0         11/07/2020       kl       452         12/07/2020       kl       1240         13/07/2020       kl       1011         14/07/2020       kl       1898         15/07/2020       kl       1898         15/07/2020       kl       672         16/07/2020       kl       1276         17/07/2020       kl       104         18/07/2020       kl       104         18/07/2020       kl       104         18/07/2020       kl       1509         21/07/2020       kl       721         22/07/2020       kl       721         22/07/2020       kl       952         23/07/2020       kl       952         23/07/2020       kl       667         25/07/2020       kl       1531         28/07/2020       kl	02/07/2020	kL	936
05/07/2020       kL       1390         06/07/2020       kL       2047         07/07/2020       kL       1238         08/07/2020       kL       1030         09/07/2020       kL       593         10/07/2020       kL       0         11/07/2020       kL       452         12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       104         18/07/2020       kL       1166         20/07/2020       kL       1166         20/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       952         23/07/2020       kL       735         26/07/2020       kL       735         26/07/2020       kL       1531         28/07/2020       kL       1531         28/07/2020       kL	03/07/2020	kL	0
06/07/2020       kL       2047         07/07/2020       kL       1238         08/07/2020       kL       1030         09/07/2020       kL       593         10/07/2020       kL       0         11/07/2020       kL       452         12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       104         18/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       952         23/07/2020       kL       952         23/07/2020       kL       952         23/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1531         28/07/2020       kL       1531         28/07/2020       kL	04/07/2020	kL	115
07/07/2020       kL       1238         08/07/2020       kL       1030         09/07/2020       kL       593         10/07/2020       kL       0         11/07/2020       kL       452         12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       104         18/07/2020       kL       166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       721         22/07/2020       kL       889         24/07/2020       kL       735         26/07/2020       kL       735         26/07/2020       kL       1531         28/07/2020       kL       1531         28/07/2020       kL       376         30/07/2020       kL       1332         29/07/2020       kL       1138	05/07/2020	kL	1390
08/07/2020       kl       1030         09/07/2020       kl       593         10/07/2020       kl       0         11/07/2020       kl       452         12/07/2020       kl       1240         13/07/2020       kl       1011         14/07/2020       kl       1898         15/07/2020       kl       672         16/07/2020       kl       1276         17/07/2020       kl       104         18/07/2020       kl       104         18/07/2020       kl       1166         20/07/2020       kl       1509         21/07/2020       kl       721         22/07/2020       kl       952         23/07/2020       kl       889         24/07/2020       kl       735         26/07/2020       kl       1680         27/07/2020       kl       1531         28/07/2020       kl       1332         29/07/2020       kl       1332         29/07/2020       kl       1332         29/07/2020       kl       1336	06/07/2020	kL	2047
09/07/2020         kL         593           10/07/2020         kL         0           11/07/2020         kL         452           12/07/2020         kL         1240           13/07/2020         kL         1011           14/07/2020         kL         1898           15/07/2020         kL         672           16/07/2020         kL         1276           17/07/2020         kL         104           18/07/2020         kL         0           19/07/2020         kL         1166           20/07/2020         kL         1509           21/07/2020         kL         721           22/07/2020         kL         952           23/07/2020         kL         889           24/07/2020         kL         667           25/07/2020         kL         667           25/07/2020         kL         1531           28/07/2020         kL         1531           28/07/2020         kL         1332           29/07/2020         kL         376           30/07/2020         kL         1138	07/07/2020	kL	1238
10/07/2020       kL       0         11/07/2020       kL       452         12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1531         28/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	08/07/2020	kL	1030
11/07/2020       kL       452         12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       735         26/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	09/07/2020	kL	593
12/07/2020       kL       1240         13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	10/07/2020	kL	0
13/07/2020       kL       1011         14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       376         30/07/2020       kL       1138	11/07/2020	kL	452
14/07/2020       kL       1898         15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       721         21/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	12/07/2020	kL	1240
15/07/2020       kL       672         16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       721         21/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	13/07/2020	kL	1011
16/07/2020       kL       1276         17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	14/07/2020	kL	1898
17/07/2020       kL       104         18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	15/07/2020	kL	672
18/07/2020       kL       0         19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	16/07/2020	kL	1276
19/07/2020       kL       1166         20/07/2020       kL       1509         21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	17/07/2020	kL	104
20/07/2020       kl       1509         21/07/2020       kl       721         22/07/2020       kl       952         23/07/2020       kl       889         24/07/2020       kl       667         25/07/2020       kl       735         26/07/2020       kl       1680         27/07/2020       kl       1531         28/07/2020       kl       1332         29/07/2020       kl       376         30/07/2020       kl       1138	18/07/2020	kL	0
21/07/2020       kL       721         22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	19/07/2020	kL	1166
22/07/2020       kL       952         23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	20/07/2020	kL	1509
23/07/2020       kL       889         24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	21/07/2020	kL	721
24/07/2020       kL       667         25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	22/07/2020	kL	952
25/07/2020       kL       735         26/07/2020       kL       1680         27/07/2020       kL       1531         28/07/2020       kL       1332         29/07/2020       kL       376         30/07/2020       kL       1138	23/07/2020	kL	889
26/07/2020     kL     1680       27/07/2020     kL     1531       28/07/2020     kL     1332       29/07/2020     kL     376       30/07/2020     kL     1138	24/07/2020	kL	667
27/07/2020     kL     1531       28/07/2020     kL     1332       29/07/2020     kL     376       30/07/2020     kL     1138	25/07/2020	kL	735
28/07/2020     kL     1332       29/07/2020     kL     376       30/07/2020     kL     1138	26/07/2020	kL	1680
29/07/2020     kL     376       30/07/2020     kL     1138	27/07/2020	kL	1531
30/07/2020 kL 1138	28/07/2020	kL	1332
	29/07/2020	kL	376
31/07/2020 kl 140	30/07/2020	kL	1138
	31/07/2020	kl	140

Average	kL	892
Minimim	kL	0
Maximum	kL	2047

The daily water volumes at LDP001 during July 2020 were below the relevant limit.

#### **Mannering Colliery Monthly Environmental Report**

Water – Groundwater Discharge

Groundwater discharged from underground workings to the MC Pollution Control Dams within the surface operational area has been detailed below. Delta Coal notes that MC does not have calibrated volume sensors on underground piping, as such, discharge from LDP001 is utilised to estimate groundwater extraction. Mannering Colliery operates Water Access License permitting the extraction of 450 megalitres per financial year.

MC Groundwater Pumped to Surface Totals FY2019-2020				
Date (month)	Groundwater Discharge (ML)	Groundwater Discharge (ML YTD)		
July 2020	26.83	26.83		
August 2020				
September 2020				
October 2020				
November 2020				
December 2020				
January 2021				
February 2021				
March 2021				
April 2021				
May 2021				
June 2021				

#### Air Quality

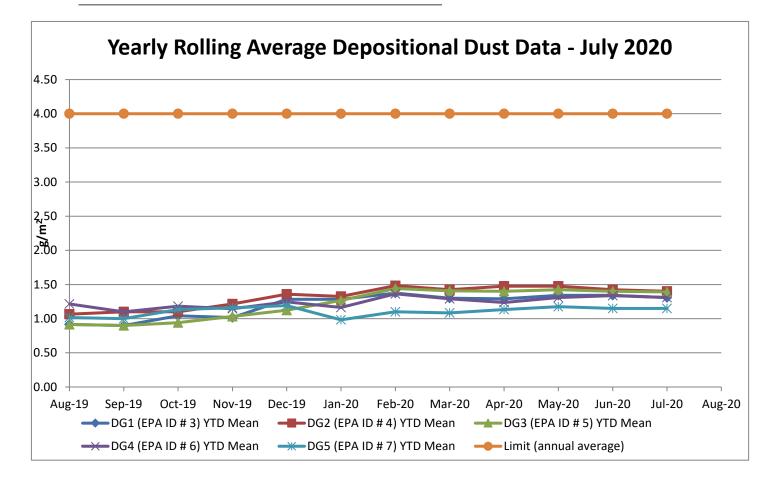
Monthly depositional dust results are shown below.

July 2020				
	EPL	191		
	Limit	Max. total deposited dust level 4g/m²/month		4g/m²/month
		Max. increase in deposited dust level		2g/m²/month
	Sampling Date	05/06/2020	to	07/07/2020
EPA ID no.	Site	Insoluble Matter (g/m2/month)		
3	DG001	0.2		
4	DG002	0.1		
5	DG003	0.2		
6	DG004	0.3		
7	DG005	0.4		
Notes:				

There were no exceedances of the annual average air quality limits during the reporting period.

**Mannering Colliery Monthly Environmental Report** 

Rolling annual average depositional dust results



#### **Mannering Colliery Monthly Environmental Report**

#### 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			
Licensee	Great Southern Energy Pty Ltd		
Location	Mannering Colliery Meteorological station		
Date published	Refer report date		
Date sampled	Daily		
Date obtained	06/08/2020		
Month	Total Rainfall/Month mm	Min Temp	Max Temp
Jan-20	28	18	44
Feb-20	350	16	37
Mar-20	159	12	38
Apr-20	46	9	28
May-20	88	5	27
Jun-20	67.6	4.5	22.7
Jul-20	232.8	3.7	23.3

Variable	July	Total	Valid
A/C Temp	100%	8928	8928
A1	100%	8928	8928
A1_Scaled	100%	8928	8928
Bypass Flow	100%	8928	8928
Cap Temp	100%	8928	8928
Case Temp	100%	8928	8928
Config	100%	8928	8928
Dew Point	100%	8928	8928
Dig-In	100%	8928	8928
Dig-Latch	100%	8928	8928
ESN	100%	8928	8928
Filter Freq	100%	8928	8928
Filter Load	100%	8928	8928
Humidity	100%	8928	8928
MC	100%	8928	8928
MC 12Hr	100%	8928	8928
MC 1Hr	100%	8928	8928
MC 24Hr	100%	8928	8928
MC 30min	100%	8928	8928
MC 8Hr	100%	8928	8928
MC Total	100%	8928	8928
Mobile Signal	100%	8928	8928
Noise	100%	8928	8928
PM10 Flow	100%	8928	8928
Pressure	100%	8928	8928
Site	0.0%	8928	0
Temperature	100%	8928	8928
Tube Temp	100%	8928	8928
Vac Pressure	100%	8928	8928
Volts	100%	8928	8928