

Rasp Mine  
Monthly Environmental Monitoring Report  
May 2018



## **INTRODUCTION**

Broken Hill Operations Pty Ltd (BHOP) [a wholly owned subsidiary of CBH Resources Limited (CBH)] owns and operates the Rasp Mine (the Mine), which is located centrally within the City of Broken Hill on Consolidated Mine Lease 7 (CML7).

Mining has been undertaken within CML7 since 1885. The existing operations at the Rasp Mine include underground mining operations, a processing plant producing zinc and lead concentrates and a rail siding for concentrate dispatch. These operations are undertaken in accordance with Project Approval 07\_0018 granted 31 January 2011, under Part3A of the Environmental Planning and Assessment Act 1979 (EP&A Act).

As the holder of an Environmental Protection Licence, 12559, BHOP is required, under Section 66(6) of the NSW *Protection of the Environment Operations Act 1997*, to publish pollution monitoring data. In addition BHOP is required to publish data in accordance with its Project Approval 07\_0018 Schedule 4 Condition 9. These documents can be found on the Rasp Mine web site.

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## 1 Air Quality

The following criteria as listed in the Project Approval (MOD4 6 September 2017) apply to air quality monitoring:

### Long Term Criteria for Particulate Matter

Pollutant	Averaging Period	Criterion
Total solid particles (TSP)	Annual	90 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	25 µg/m <sup>3</sup>

### Short Term Criterion for Particulate Matter

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	50 µg/m <sup>3</sup>

### Long Term Criteria for Deposited Dust

Pollutant	Averaging Period	Maximum Project Contribution	Maximum Total Deposited Dust Level
Deposited dust	Annual	2 g/m <sup>2</sup> /month	4 g/m <sup>2</sup> /month

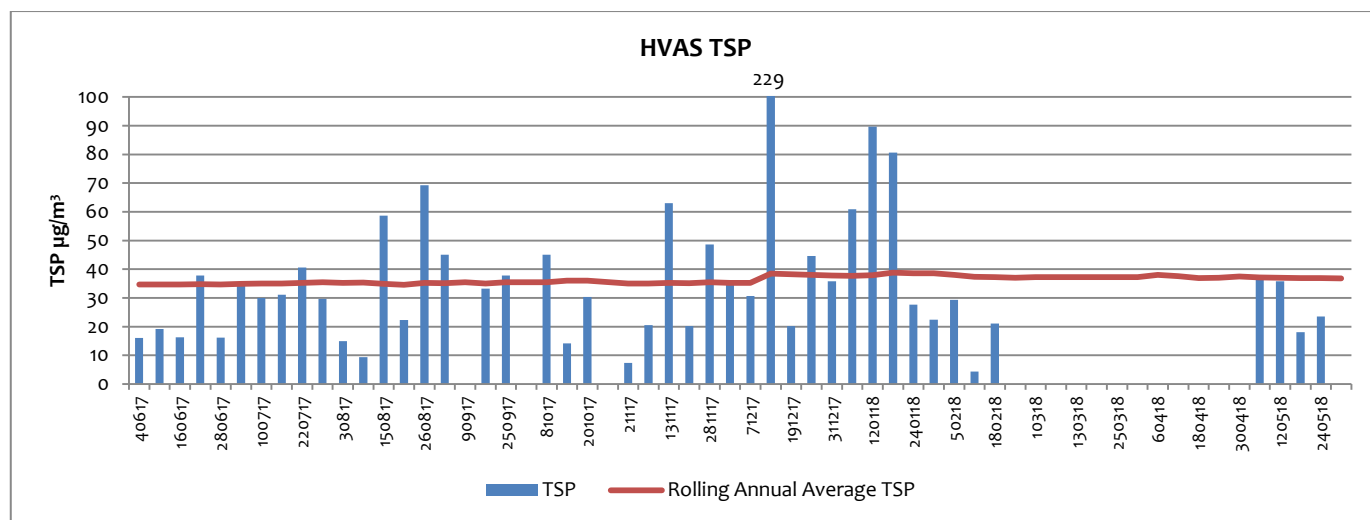
### 1.1 High Volume Air Samplers

There are three high volume air samplers used to measure ambient air quality at the Rasp Mine – HVAS (EPL10) and HVAS1 (EPL11) are located at the Silver Tank, central and to the south of the mine lease, and HVAS2 (EPL12) is located adjacent to and north of Blackwood Pit. A map indicating these locations can be found on the Rasp Mine web site. HVAS samples for total suspended particulates (TSP) and lead dust, and HVAS1 and HVAS2 sample for particulate matter less than 10 microns (PM<sub>10</sub>) and lead dust.

#### ***HVAS (EPL10) - Silver Tank (On Site) Results for May***

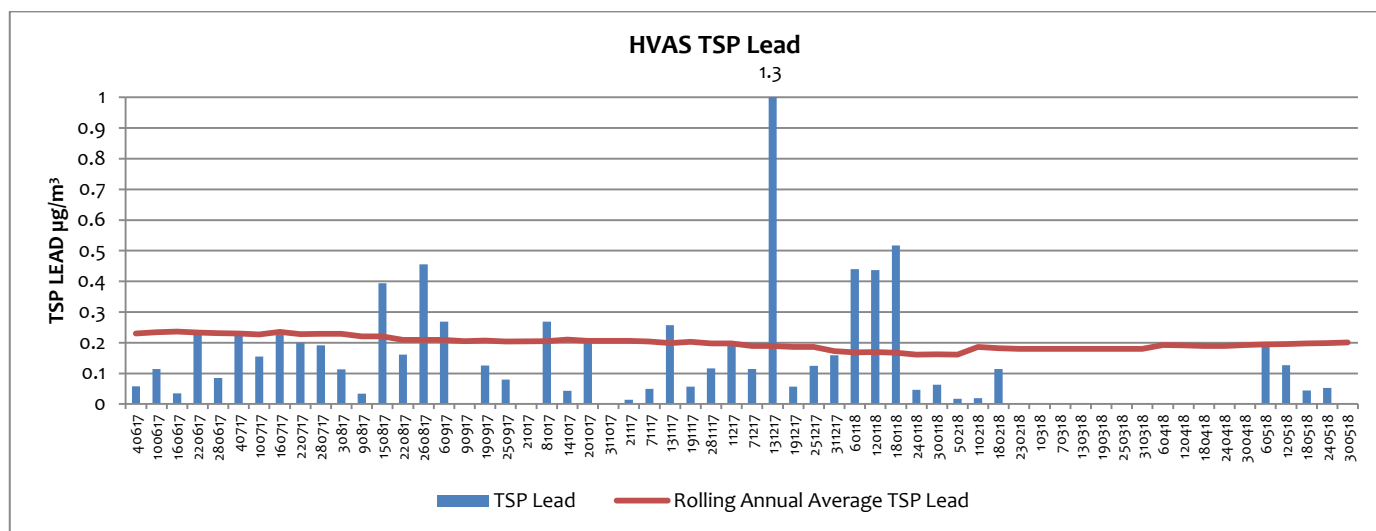
DATE	TSP (µg/m <sup>3</sup> )	Lead (µg/m <sup>3</sup> )
06-05-18	37.00	0.186
12-05-18	35.80	0.127
18-05-18	18.10	0.044
24-05-18	23.50	0.05
30-05-18	NS <sup>1</sup>	NS <sup>1</sup>

Note<sup>1</sup>: NS – No sample. Sample filters lost in transit to laboratory – EPA notified



HVAS (EPL10) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. The filter paper from the 30 May sampling event was lost in transit to the laboratory. Australia Post tracking confirms that the high volume filter papers from the 30 May sampling event were delivered but the laboratory was unable to confirm this. The incident was reported to the EPA. The method of delivery for high volume filter papers has since been amended. The recorded annual average TSP to May is  $36.78 \mu\text{g}/\text{m}^3$ .

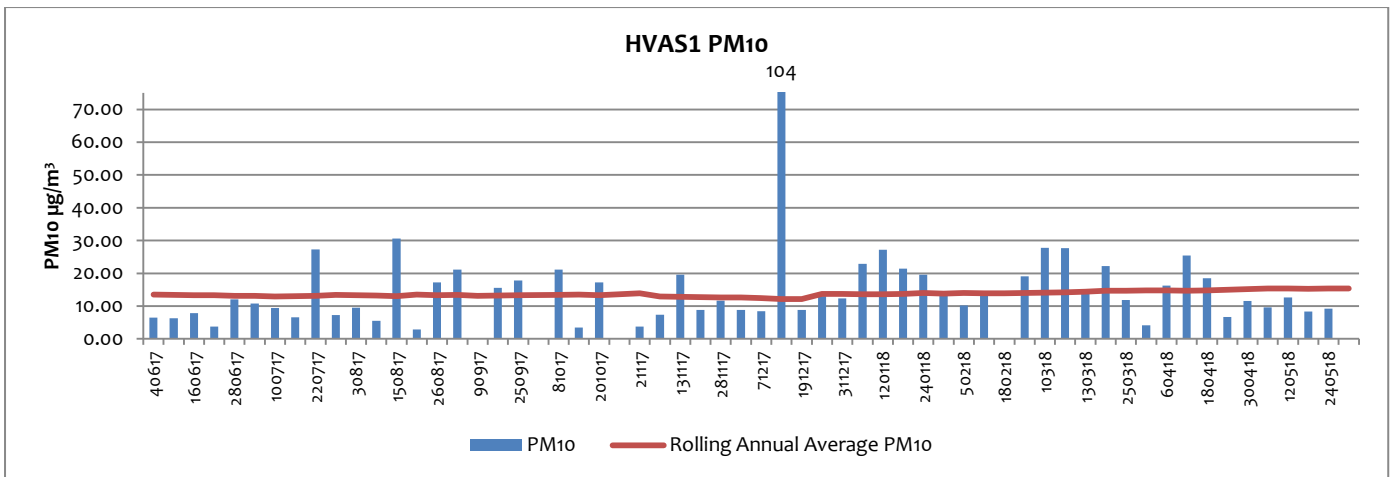
Overall the trend for PM10 at this location remains consistent with the previous 12 months.



## HVAS1 (EPL11) - Silver Tank (On Site) Results for May

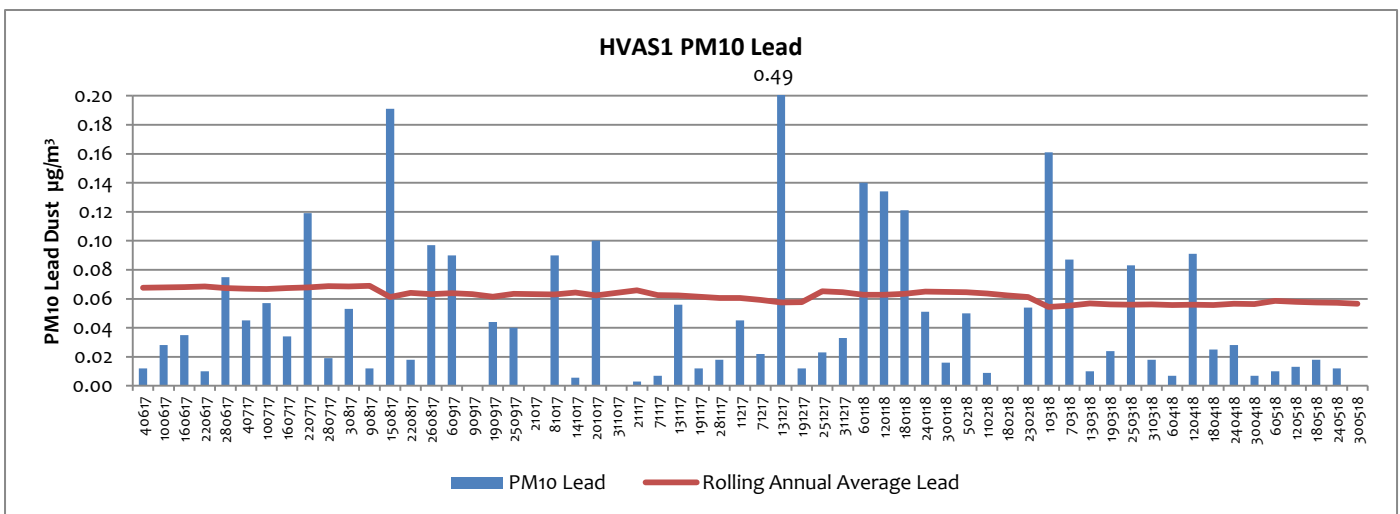
DATE	PM10 ( $\mu\text{g}/\text{m}^3$ )	PM10 Lead ( $\mu\text{g}/\text{m}^3$ )
06-05-18	9.60	0.01
12-05-18	12.60	0.013
18-05-18	8.30	0.018
24-05-18	9.20	0.012
30-05-18	NS <sup>1</sup>	NS <sup>1</sup>

Note <sup>1</sup>: NS – No sample. Sample filters lost in transit to laboratory – EPA notified



HVAS (EPL11) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. The filter paper from the 30 May sampling event was lost in transit. Australia Post tracking confirms that the high volume filter papers from the 30 May sampling event were delivered but the laboratory was unable to confirm this. The incident was reported to the EPA. The method of delivery for high volume filter papers has since been amended. The recorded annual average for PM<sub>10</sub> to May is 15.4  $\mu\text{g}/\text{m}^3$  which is below the PM<sub>10</sub> annual average criterion of 25  $\mu\text{g}/\text{m}^3$  required at the nearest residential location.

Overall the trend for PM<sub>10</sub> at this location remains consistent with the previous 12 months.



There is no guideline for assessing PM<sub>10</sub> lead dust; the trend for lead dust at this location remains consistent with the previous 12 months.

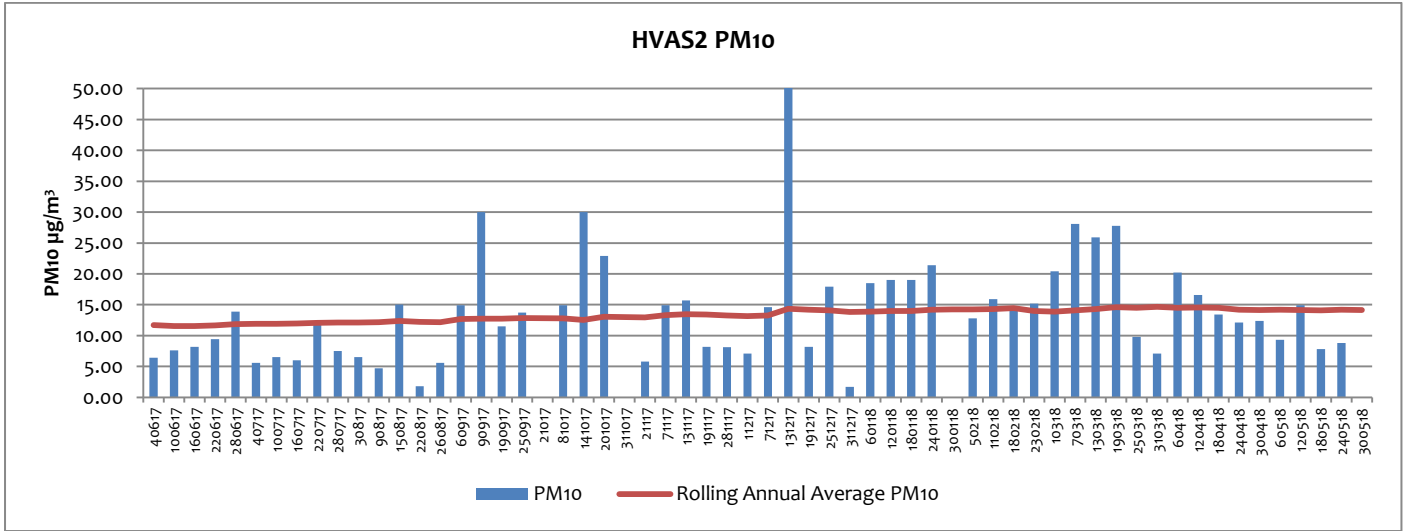
#### ***HVAS 2 (EPL12) - Blackwood Pit (On Site) Results for May***

DATE	PM10 ( $\mu\text{g}/\text{m}^3$ )	Lead ( $\mu\text{g}/\text{m}^3$ )
06-05-18	9.30	0.020
12-05-18	14.90	0.117
18-05-18	7.80	0.050
24-05-18	8.80	0.012



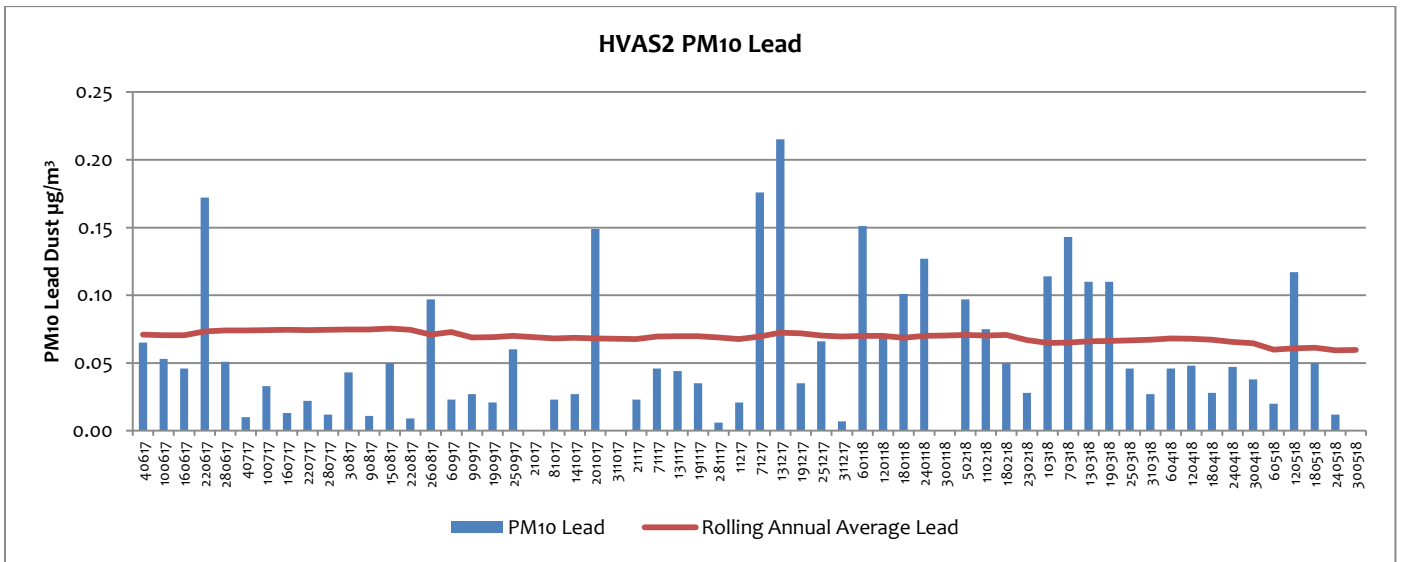
30-05-18	NS <sup>1</sup>	NS <sup>1</sup>
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Note <sup>1</sup>: NS – No sample. Sample filters lost in transit to laboratory – EPA notified



HVAS (EPL12) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. The filter paper from the 30 May sampling event was lost in transit to the laboratory. Australia Post tracking confirms that the high volume filter papers from the 30 May sampling event were delivered but the laboratory was unable to confirm this. The incident was reported to the EPA. The method of delivery for high volume filter papers has since been amended. The recorded annual average PM<sub>10</sub> to May is 14.12 µg/m<sup>3</sup> which is below the PM<sub>10</sub> annual average criterion 25 µg/m<sup>3</sup> required at the nearest residential location.

Overall the trend for PM<sub>10</sub> at this location remains consistent with the previous 12 months.



There is no guideline for assessing PM10 lead dust; the trend for lead dust at this location remains consistent with the previous 12 months.



## 1.2 Tapered Element Oscillating Microbalance Sampling (TEOM)

There are two Tapered Element Oscillating Microbalance (TEOM) sampling units used to measure ambient air quality at the Rasp Mine – TEOM1 (EPL13) is located off-site within the perimeter fence of Essential Water south of the mine lease, and TEOM2 (EPL14) is located on-site adjacent to Blackwood Pit to the north of the mine lease. A map indicating these locations can be found on the Rasp Mine web site. TEOM1 and TEOM2 operate continuously and sample for particulate matter less than 10 microns (PM<sub>10</sub>) in size.

### *TEOM1 (EPL13) (Off Site) and TEOM2 (EPL14) (On Site) Results for May*

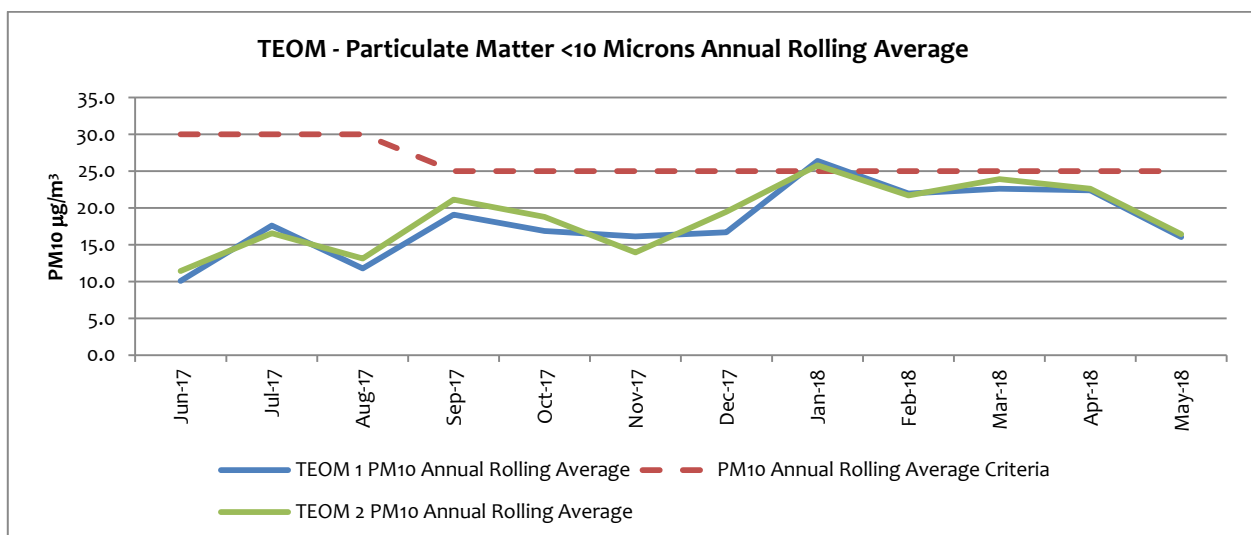
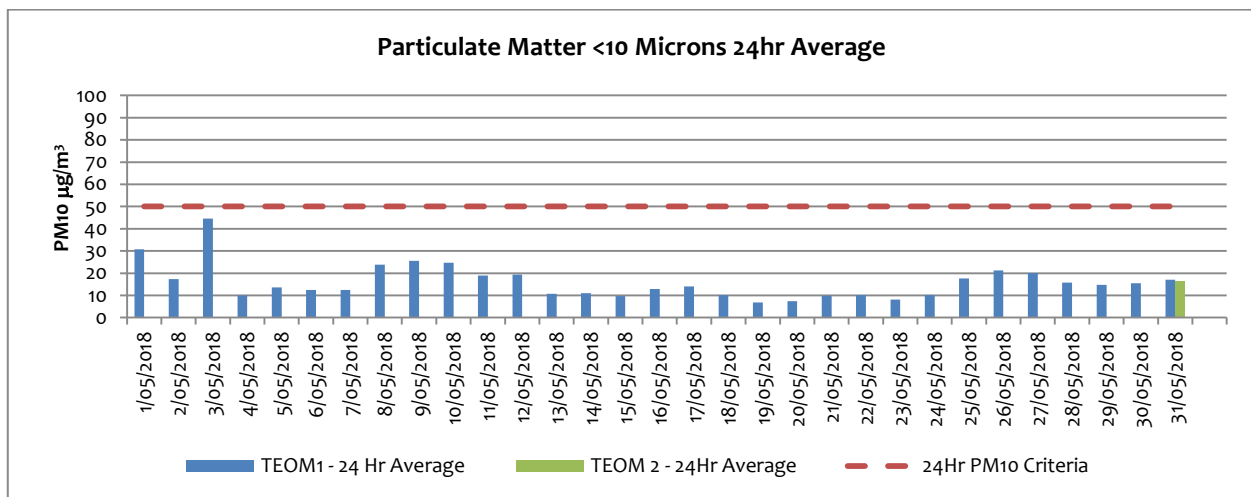
Particulate Matter <10 Microns 24Hr Average				
Date	TEOM 1 (µg/m <sup>3</sup> )	Compliant with 50µg/m <sup>3</sup> 24hr average?	TEOM 2 (µg/m <sup>3</sup> )	Compliant with 50µg/m <sup>3</sup> 24hr average?
01-05-18	30.80	Y	NS	N
02-05-18	17.37	Y	NS	N
03-05-18	44.53	Y	NS	N
04-05-18	10.08	Y	NS	N
05-05-18	13.63	Y	NS	N
06-05-18	12.45	Y	NS	N
07-05-18	12.43	Y	NS	N
08-05-18	23.91	Y	NS	N
09-05-18	25.63	Y	NS	N
10-05-18	24.72	Y	NS	N
11-05-18	18.90	Y	NS	N
12-05-18	19.38	Y	NS	N
13-05-18	10.75	Y	NS	N
14-05-18	11.05	Y	NS	N
15-05-18	9.71	Y	NS	N
16-05-18	12.95	Y	NS	N
17-05-18	14.07	Y	NS	N
18-05-18	10.12	Y	NS	N
19-05-18	6.84	Y	NS	N
20-05-18	7.48	Y	NS	N
21-05-18	9.87	Y	NS	N
22-05-18	10.21	Y	NS	N
23-05-18	8.14	Y	NS	N
24-05-18	10.13	Y	NS	N
25-05-18	17.64	Y	NS	N
26-05-18	21.31	Y	NS	N
27-05-18	20.16	Y	NS	N
28-05-18	15.72	Y	NS	N
29-05-18	14.73	Y	NS	N
30-05-18	15.51	Y	NS	N
31-05-18	17.08	Y	16.45	Y

NS = Technical problem with memory download of TEOM2 unit.



The TEOM1 monitoring unit is located off-site from the Rasp Mine and the criteria as listed in the Project Approval 07\_0018 apply at this point. There are two criteria listed for PM<sub>10</sub>, a 24 hour average and an annual average. The highest PM<sub>10</sub> 24-hour average recorded at TEOM1 in May was 44.53 µg/m<sup>3</sup> on 3 May. The weather station recorded winds of 58 km/h from the north of Broken Hill and therefore the results were not affected by site operations. The annual average PM<sub>10</sub> inclusive of May was 16.0 µg/m<sup>3</sup>.

The TEOM2 unit experienced technical issues from 20 April continuing to 31 May when the unit was serviced and firmware updated. Although the unit was operational no data could be retrieved. This was reported to the EPA. Following investigation by a service technician it was found that the flash card to which the monitoring data is written had malfunctioned and the process for writing data to the memory card became corrupted. HVA52 which also monitors for PM<sub>10</sub> is located adjacent to TEOM2 and did not record any unexpected increases in dust levels during this period.



**Note 1:** Criteria change to 25µg/m<sup>3</sup> in September as per PA MOD4.

The Rasp Mine is in compliance with this criterion. Overall the trend for PM<sub>10</sub> at this location remains consistent with the previous 12 months. Results have been affected by recent dry conditions as there has been only 1.77mm recorded at the Rasp Mine weather station in the five months to the end of May.





### 1.3 Dust Deposition Sampling

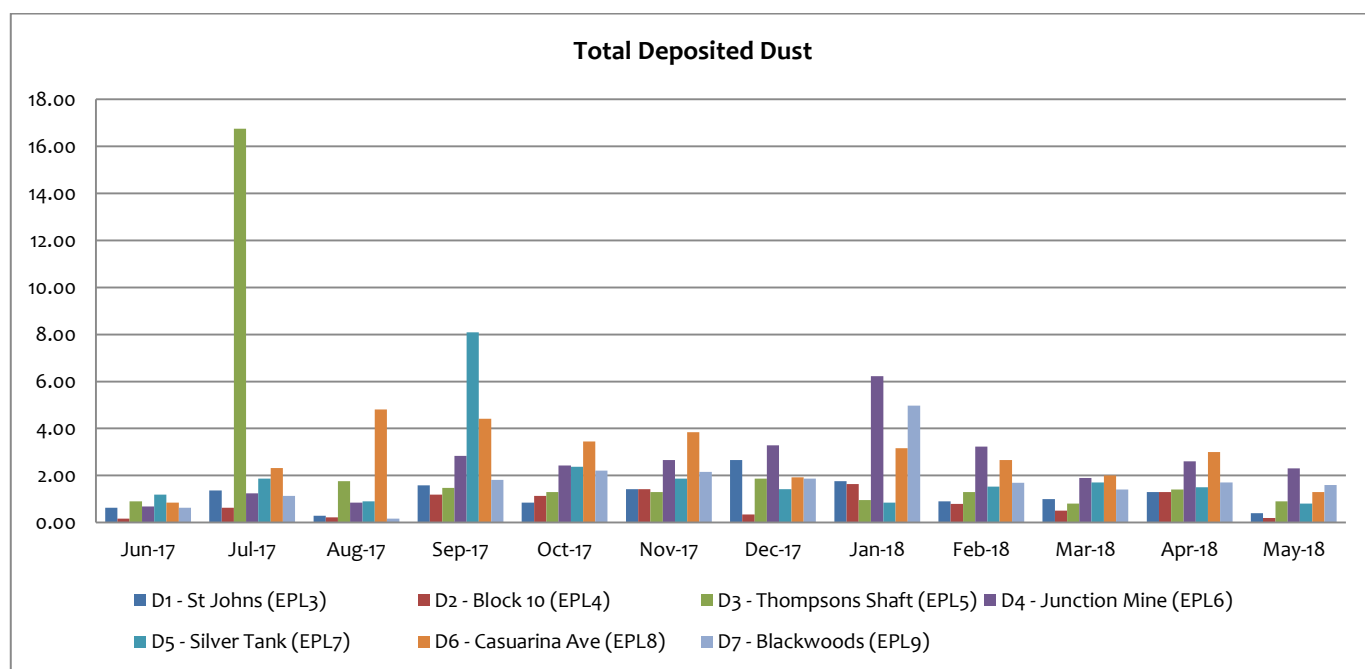
There are seven dust deposition gauges to measure ambient air quality at the Rasp Mine – D1 to D7. D1 and D6 are located off-site, D1 near the St Johns training facility north of the Rasp Mine and D6 in Casuarina Avenue south of the Rasp Mine. D2 to D5 and D7 are located on the mine lease in various locations. A map indicating these locations can be found on the Rasp Mine web site. Dust samples are collected monthly and analysed for total deposited dust and deposited lead dust.

#### *Dust Deposition Gauges (D1 (EPL3) to D7 (EPL9)) – Results for May*

Total Deposited Dust (g/m <sup>2</sup> /Month)							
Date	D1 (off site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off site)	D7 (on site)
May 2018	0.4	0.20	0.90	2.3	0.8	1.3	1.6
Background (2010)	4.0	3.1	4.3	5.7	- <sup>1</sup>	5.8	- <sup>1</sup>
Compliant?	Y	N/A	N/A	N/A	N/A	Y	N/A

Note: “1”= background not available

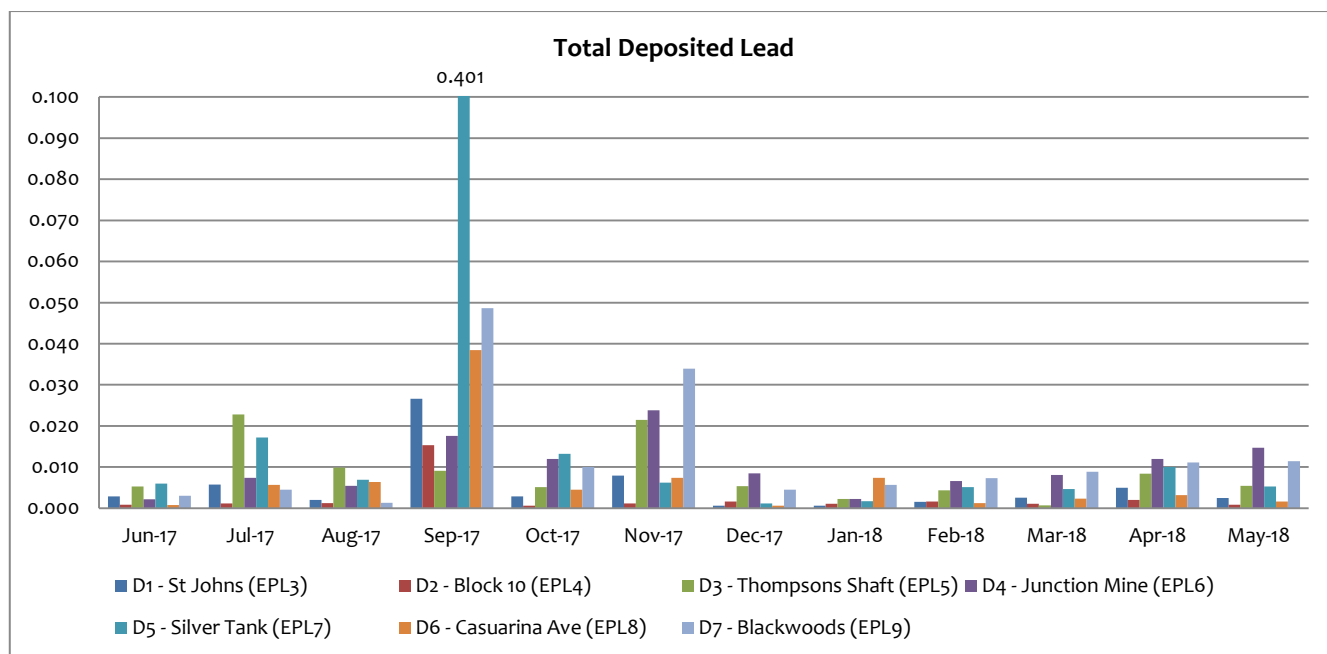
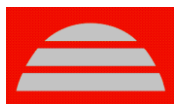
N/A = not applicable as dust deposition unit is located on site



The Rasp Mine is in compliance with criteria.

Total Deposited Lead (g/m <sup>2</sup> /Month)							
Date	D1 (off Site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off Site)	D7 (on site)
May 2018	0.002	0.001	0.005	0.014	0.005	0.002	0.011
Background (2010)	0.0034	0.005	0.005	0.006	- <sup>1</sup>	0.004	- <sup>1</sup>

Note: “1”= background not available



There are no guidelines for deposited lead dust. The results are consistent with previous months.

## 1.4 Ventilation Outlets and Bag House Monitoring

There are three locations to measure pollutants from exhausts or stacks, these include the Primary Ventilation Shaft and Shaft 6, both measuring pollutants from underground firings, and the Baghouse Stack at the crusher measuring dust. All are located on site; the Primary Ventilation Shaft is located centrally and to the north of the mine lease and Shaft 6 is located centrally within the lease. The Primary Crusher Baghouse Stack is located within the area of the processing plant to the east of the lease. A map indicating these locations can be found on the Rasp Mine web site. Samples are collected quarterly and analysed for a number parameters listed in below. Reference to the item required in the Rasp Mine Environment Protection Licence (EPL) is provided below.

Quarterly sampling is undertaken in March, June, September and December.

The following criteria apply:

### Primary Ventilation Shaft (EPL1) and Shaft 6 (EPL56)

	Unit	Criteria
Nitrogen Oxides	mg/m <sup>3</sup>	350
Volatile Organic Compounds	mg/m <sup>3</sup>	40

### Primary Ventilation Shaft (EPL1), Shaft 6 (EPL56) and Crusher Baghouse (EPL2)

	Unit	Criteria
Total Suspended particles	mg/m <sup>3</sup>	20
Type 1 and Type 2 <sup>1</sup>	mg/m <sup>3</sup>	1

**Note 1:** "Type 1 substance" means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

"Type 2 substance" means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.



### ***Primary Vent Shaft (EPL1), Crusher Baghouse (EPL2) and Vent Shaft 6 (EPL56) Results for May***

There are no results for May; sampling is scheduled for June 2018.

## **2 Noise**

### **2.1 Blasting (Vibration and Overpressure)**

There are 6 vibration monitors at various locations to measure for vibration and overpressure from blast firings. These include V1 to V5 which are located off-site and V6 which is located on-site near Shaft 4. A map indicating these locations can be found on the Rasp Mine web site. In addition there are 2 roving monitors, which may be used to monitor vibration and overpressure at particular locations as required. Monitors operate continuously and are automatically triggered when a blast occurs. The following conditions apply as listed in the PA 07\_0018 and EPL 12559:-

#### **Blasting Criteria (Western Mineralisation and Main Lodes excluding Block 7)**

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)
Residence on privately owned land (7am-7pm)	115	5	5% of the total number of blasts over a 12-month period <sup>1</sup>
(7am-7pm)	120	10	0%
(7pm-10pm)	105	-	-
(10pm-7am)	95	-	-
Public Infrastructure	-	100	0%

**Note 1:** Does not apply until completion of Pollution Reduction Program on the EPL at the end of 2018. Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

#### **Blasting Criteria (Block 7)**

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)
Residence on privately owned land (7am-7pm)	115	3 (interim)	5% of the total number of blasts over a 12-month period <sup>1</sup>
(7am-7pm)	120	10	0%
(7pm-10pm)	105	-	-
(10pm-7am)	95	-	-
Broken Hill Bowling Club, Italio (Bocce) Club, Heritage Items within CML7	-	50	0%
Perilya Southern Operations	-	100	0%
Public Infrastructure	-	100	0%

**Note 1:** Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

In addition the following conditions also apply:-

- Production blasts may occur between 6.45 am and 7.15 pm on any day
- 1 production blast per day, with 6 per week averaged over a calendar year



- 6 development blasts per day, with 42 per week averaged over a calendar year

### ***Blasting Data Summary Results for May***

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#### **Total Blasts:**

- 0 production blasts occurred before 6.45 am or after 7.15 pm
- The number of Production blasts averaged 4.6 per week over the previous calendar year
- The number of Development blasts averaged 34.3 per week over the previous calendar year

#### **Western Mineralisation and Main Lodes (excluding Block 7):**

- 1 Blast recorded >5 mm/s
- 0 Blasts recorded >10 mm/s
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115dBL (7am to 7pm)
- 0 Blasts recorded an over pressure level over or 120 dBL at any time
- Percentage of development blasts over 5 mm/sec = 0% (1 June 2017 until 31 May 2018)
- Percentage of production blasts over 5 mm/sec = 5.4% (1 June 2017 until 31 May 2018)

One production blast in the Western Mineralisation area produced a ground vibration record of 5.65mm/s at the V2 blast monitor on 5 May. The Rasp Mine Technical Services team are currently investigating the conditions of the blast and the measures to take in order to reduce the generation of ground vibration from future blasts of this type and in this area of the mine.

#### **Block 7:**

- 0 Blasts recorded >3 mm/s
- 0 Blasts recorded >10 mm/s
- 0 Blasts recorded >50 mm/s at V6
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115 dBL (7am to 7pm)
- Percentage of development blasts over 3mm/sec = 0% (1 June 2017 to 31 May 2018)
- Percentage of production blasts over 3mm/sec = 9.1% (1 June 2017 to 31 May 2018) (criteria does not apply in this period as not a regulator reporting period)

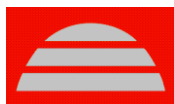
There was no blasting in Block 7 during May. However, during the last 12 months 5 blasts in Block 7 have exceeded 3 mm/s - 3.54 (Sept), 3.07 (Dec), 3.1 (Dec), 3.1 (Jan) and 3.45 (Jan). Mining of Block 7 has now reduced and due to the decreasing number of blasts, the rolling 12 month average will continue to increase until the end of the year. All measures are taken to reduce the size of the production blasts.

## **2.2 Noise**

Noise monitoring is undertaken as per the NSW Noise Policy for Industry at a frequency of once per annum. A noise assessment was conducted in November 2017, and is next due in Q4 2018.

## **3 Water**

### **3.1 Groundwater**



There are eighteen sampling locations for groundwater. GW01 (EPL37) to GW16 (EPL52) are piezometers installed at various locations around the mine site and are sampled quarterly. There are also two sampling locations for water pumped from underground mining, Shaft 7 (EPL53) and Kintore Pit (EPL54), which are sampled monthly. A map indicating these locations can be found on the Rasp Mine web site. Groundwater monitoring is scheduled for completion in May, June, September and January. No limits are applied in the EPL to the results from groundwater monitoring.

### Groundwater Monitoring Requirements

EPA Identification Number	Frequency	Parameters to be analysed
Shaft 7 EPL53	Monthly	alkalinity (calcium carbonate (CaCO <sub>3</sub> )), cadmium (Cd), calcium (Ca), chloride (Cl), electrical conductivity (EC), iron (Fe), lead Pb), magnesium (Mg), manganese (Mn), pH, sodium (Na), sulphate (SO <sub>4</sub> ), total dissolved solids (TDS) and zinc (Zn)
Kintore Pit (U/G dewatering) EPL54	Monthly	
Piezometers EPL37 (GW01) to EPL52 (GW16)	Quarterly	

### Shaft 7 (EPL53) and Kintore Pit (EPL54) Results for May

Sample Point	pH	EC (µS/cm <sup>2</sup> )	TDS (mg/l)	Alkalinity (CaCO <sub>3</sub> ) (mg/l)	SO <sub>4</sub> (mg/l)	Cl (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	Cd (mg/l)	Pb (mg/l)	Mn (mg/l)	Zn (mg/l)	Fe (mg/l)
Shaft 7 (EPL53)	6.22	11700	9650	8	5360	1440	516	250	1480	2.69	1.69	378	1330	7.49
Kintore Pit (EPL54)	5.97	11800	8070	5	5300	1500	518	261	1500	2.48	1.04	381	1240	2.06

## 3.2 Surface Water Sample Record

There are seven sampling locations for surface water, these include surface water basins located on the mine lease to capture and retain rainfall and two locations up and down stream of an ephemeral creek located south of the mine lease boundary. A map indicating these locations can be found on the Rasp Mine web site. Sampling is undertaken in October (highest rainfall month as recorded by Bureau of Meteorology) and April.

### Surface Water Monitoring Requirements

Description	Frequency	Parameters to be Analysed
Federation Way Culvert EPL29/S31-1	2 x per year , six months apart	cadmium (Cd), chloride (Cl), electrical conductivity (EC), lead Pb), manganese (Mn), pH, sodium (Na), sulphate (SO <sub>4</sub> ), total dissolved solids (TDS) and zinc (Zn)
Ryan Street Dam EPL31/S49	2 x per year , six months apart	
Adjacent Olive Grove EPL32/S1A	2 x per year , six months apart	
Adjacent Bowls Club EPL33 /S9-B2	2 x per year , six months apart	
Horwood Dam EPL34/Horwood Dam	2 x per year , six months apart	
Upstream Bonanza St EPL35	2 x per year , six months apart	
Downstream Sydney Rd EPL36	2 x per year , six months apart	

### Surface Water Monitoring Results



Surface water sampling was not required in May.

## 4 Weather Data

The weather station continuously monitors the following parameters as per Point 55 of the Environmental Protection Licence.

The following parameters are required to be recorded each month as listed in the EPL 12559:-

### Rasp Mine Weather Station (EPL55) Monitoring Requirements

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Temperature at 10 metres	AM-4	degrees Celsius	15 minutes	Continuous
Wind Direction at 10 metres	AM-4	degrees in a clockwise direction from True North	15 minutes	Continuous
Wind Speed at 10 metres	AM-4	metres per second	15 minutes	Continuous
Rainfall	AM-4	millimetres	1 hour	Continuous
Sigma theta	AM-2 & AM-4	degrees	15 minutes	Continuous

**Note:** The onsite weather station currently does not report Sigma theta.

### Weather Data Summary for May

Date	Temperature @ 10m (°C)		Wind Speed @ 10m (m/s)		Predominant wind dir @ 10m (deg)		Rainfall
	Min	Max	Min	Max	Cardinal	Degree	
01-May-18	14.3	21.3	0.1	7.0	NE	44	0.00
02-May-18	15.3	23.8	0.2	10.7	North	4	0.00
03-May-18	13.8	25.9	0.8	16.3	North	6	0.22
04-May-18	9.3	17.1	0.3	10.4	SW	226	0.00
05-May-18	9.8	18.6	0.2	4.3	South	182	0.00
06-May-18	10.7	20.0	0.4	7.3	East	90	0.00
07-May-18	12.1	21.7	0.3	10.6	NW	314	0.00
08-May-18	12.9	22.1	0.2	4.8	SSW	207	0.00
09-May-18	13.4	22.0	0.6	7.8	NW	317	0.00
10-May-18	7.8	15.3	2.0	12.3	SW	226	0.07
11-May-18	6.8	14.7	1.7	13.2	SSW	206	0.00
12-May-18	6.3	15.1	2.4	13.7	SSW	198	0.00
13-May-18	8.4	15.4	2.1	10.4	South	179	0.00
14-May-18	6.2	16.4	0.3	6.3	South	184	0.00
15-May-18	5.3	13.8	1.6	8.9	South	180	0.00
16-May-18	8.7	13.7	2.0	10.7	SSE	160	0.00
17-May-18	3.6	12.8	1.6	9.2	South	177	0.00
18-May-18	7.5	15.0	0.4	6.3	South	182	0.00
19-May-18	9.2	17.4	0.3	5.4	SSW	203	0.00
20-May-18	8.2	14.9	0.6	7.3	South	183	0.00
21-May-18	7.4	17.0	0.9	7.4	SSW	206	0.00
22-May-18	9.0	15.4	0.9	10.4	South	181	0.00
23-May-18	8.3	14.9	1.3	8.8	SSE	159	0.00
24-May-18	7.3	15.4	0.7	9.8	SSE	152	0.00
25-May-18	7.7	18.0	0.8	5.9	East	92	0.00
26-May-18	10.7	23.1	1.0	11.3	NNE	24	0.00



<b>27-May-18</b>	16.0	22.3	0.4	10.9	NNE	23	0.00
<b>28-May-18</b>	14.5	23.2	0.5	9.1	North	5	0.01
<b>29-May-18</b>	9.4	18.7	1.0	8.7	SW	229	0.13
<b>30-May-18</b>	5.5	13.7	0.8	9.8	SSW	204	0.00
<b>31-May-18</b>	7.9	15.4	0.7	9.3	SSE	155	0.00

## 5 Data Log

Sample	Result Received
Hi Volume Samples	01-06-2018
TEOM	08-06-2018
Dust Deposition	<b>25-06-2018</b>
Vents & Bag House	Not scheduled for May
Water	21-05-2018
Blast vibration and overpressure	05-06-2018
Weather	08-06-2018
Date posted to web site	09-07-2018

## 6 Correction Log

In the April monthly report the month of February in the Total Deposited Lead graph was graphed incorrectly and the corrected Total Deposited Lead graph for the April monthly report is provided below.

