

## **Bass Point Quarry Air Quality Monitoring Data**

Reporting Month: December 2018

Licensee Address: Bass Point Tourist Rd, Bass Point NSW 2529

EPL No: 2193

Project Approval: Ref 08\_0143, January 28, 2014

## **Qualifications related to the Air Quality Management Plan**

As per the EPL, Project Approval and Air Quality Management Plan, the quarry is required to report on the following:

### *Particulate Matter*

The quarry will gather representative data and compare the results against the following tables:

*Table 4: Long-Term Impact Assessment Criteria for Particulate Matter*

<i>Pollutant</i>	<i>Averaging period</i>	<i><sup>d</sup> Criterion</i>
Total suspended particulates (TSP)	Annual	<sup>a</sup> 90 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a</sup> 30 µg/m <sup>3</sup>

*Table 5: Short Term Impact Assessment Criteria for Particulate Matter*

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

### *Dust Deposition Gauges*

The quarry monitors two Dust Deposition Gauges (DDG's) and compares the results against the following table:

*Table 6: Long-Term Impact Assessment Criteria for Deposited Dust*

<i>Pollutant</i>	<i>Averaging period</i>	<i>Maximum increase in deposited dust level</i>	<i>Maximum total deposited dust level</i>
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

### *Representative Weather Data*

The quarry will gather representative weather data for the respective month including temperature, rainfall, wind speed and direction.

## **Results**

### *Particulate Matter*

#### *Short Term Impact Assessment*

<b>Date</b>	<b>PM10 24h average [<math>\mu\text{g}/\text{m}^3</math>]</b>
01/12/2018	16.4
02/12/2018	94.4
03/12/2018	16.2
04/12/2018	24.5
05/12/2018	17.5
06/12/2018	17.1
07/12/2018	18.8
08/12/2018	29.8
09/12/2018	31.6
10/12/2018	24.3
11/12/2018	16.2
12/12/2018	14.7
13/12/2018	14.4
14/12/2018	15.9
15/12/2018	21.8
16/12/2018	33.4
17/12/2018	30.2
18/12/2018	22.3
19/12/2018	18.6
20/12/2018	17.3
21/12/2018	11.1
22/12/2018	9.0
23/12/2018	9.3
24/12/2018	12.9
25/12/2018	21.6
26/12/2018	29.0
27/12/2018	36.2
28/12/2018	41.8
29/12/2018	36.4
30/12/2018	30.0
31/12/2018	31.0

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result(g/m<sup>2</sup>/month)</b>	<b>Comment</b>
DDG 1	1.8	
DDG 2	5.4	

