

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

Reporting Month: December 2014

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*

#### *Long Term Impact Assessment*

<b>Pollutant</b>	<b>2014 Annual Average (um/m3)</b>	<b>Comment</b>
TSP	44.8	
PM10	16.2	

#### *Short Term Impact Assessment*

<b>Date</b>	<b>PM10 24h average [<math>\mu\text{g}/\text{m}^3</math>]</b>
01/12/2014	21.6
02/12/2014	17.8
03/12/2014	23.5
04/12/2014	17.1
05/12/2014	12.6
06/12/2014	15
07/12/2014	16
08/12/2014	15.2
09/12/2014	14.9
10/12/2014	15.1
11/12/2014	10
12/12/2014	14
13/12/2014	12
14/12/2014	15.6
15/12/2014	18.2
16/12/2014	27.9
17/12/2014	NA
18/12/2014	30.7
19/12/2014	21
20/12/2014	20.6
21/12/2014	18
22/12/2014	21.3
23/12/2014	15.9
24/12/2014	14.2
25/12/2014	17.4
26/12/2014	16.6
27/12/2014	18.2
28/12/2014	14.3
29/12/2014	15.3
30/12/2014	24.3
31/12/2014	34.8

