

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

Reporting Month: October 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*

#### *Short Term Impact Assessment*

<b>Date</b>	<b>PM10 24h average [<math>\mu\text{g}/\text{m}^3</math>]</b>
01/10/2014	14.8
02/10/2014	13.5
03/10/2014	12.7
04/10/2014	20.7
05/10/2014	19.7
06/10/2014	33.9
07/10/2014	13.2
08/10/2014	13.6
09/10/2014	10.5
10/10/2014	17.2
11/10/2014	22.9
12/10/2014	24.1
13/10/2014	10.8
14/10/2014	4.3
15/10/2014	8.8
16/10/2014	10
17/10/2014	9.7
18/10/2014	8.7
19/10/2014	21.2
20/10/2014	16.6
21/10/2014	10.6
22/10/2014	11.5
23/10/2014	24
24/10/2014	27.9
25/10/2014	25.8
26/10/2014	16
27/10/2014	26.1
28/10/2014	11.7
29/10/2014	26.6
30/10/2014	18.9
31/10/2014	39.7

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result (<math>\text{g}/\text{m}^2/\text{month}</math>)</b>	<b>Comment</b>
DDG 1	6.6	Results likely affected by the marina works
DDG 2	12.7	Results likely affected by the marina works

