

Bass Point Quarry Air Quality Monitoring Data

Reporting Month: December 2015

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

Table 5: Short Term Impact Assessment Criteria for Particulate Matter

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

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>
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /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

Date	PM10 24h average [$\mu\text{g}/\text{m}^3$]
01/12/2015	29.6
02/12/2015	13.9
03/12/2015	21.1
04/12/2015	11.6
05/12/2015	16.9
06/12/2015	16.5
07/12/2015	N/A
08/12/2015	21.8
09/12/2015	20.4
10/12/2015	28.9
11/12/2015	28.2
12/12/2015	N/A
13/12/2015	N/A
14/12/2015	N/A
15/12/2015	24.6
16/12/2015	15.4
17/12/2015	13.1
18/12/2015	24.6
19/12/2015	33
20/12/2015	38.6
21/12/2015	23.3
22/12/2015	15.6
23/12/2015	18.1
24/12/2015	11.8
25/12/2015	13.4
26/12/2015	19.6
27/12/2015	16.3
28/12/2015	12.6
29/12/2015	8.9
30/12/2015	9
31/12/2015	14.1

Dust Deposition Gauges

Location	Result(g/m²/month)	Comment
DDG 1	4.8	Results likely affected by the marina works
DDG 2	2.6	Results likely affected by the marina works

