

Bass Point Quarry Air Quality Monitoring Data

Reporting Month: July 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 [$\mu\text{g}/\text{m}^3$] |
|-------------|---|
| 01/07/2015 | 8.6 |
| 02/07/2015 | 6.6 |
| 03/07/2015 | 10 |
| 04/07/2015 | 8.3 |
| 05/07/2015 | 9.1 |
| 06/07/2015 | 6.9 |
| 07/07/2015 | 7.4 |
| 08/07/2015 | 9.1 |
| 09/07/2015 | 10.3 |
| 10/07/2015 | 7.6 |
| 11/07/2015 | 8.8 |
| 12/07/2015 | 2.8 |
| 13/07/2015 | 5.7 |
| 14/07/2015 | 5 |
| 15/07/2015 | 9.4 |
| 16/07/2015 | 4.6 |
| 17/07/2015 | 4.8 |
| 18/07/2015 | 7.8 |
| 19/07/2015 | 6.7 |
| 20/07/2015 | 11.9 |
| 21/07/2015 | 10.8 |
| 22/07/2015 | 9.5 |
| 23/07/2015 | 9.2 |
| 24/07/2015 | 12.2 |
| 25/07/2015 | 8.3 |
| 26/07/2015 | 6.8 |
| 27/07/2015 | 8.1 |
| 28/07/2015 | 9 |
| 29/07/2015 | 12.4 |
| 30/07/2015 | 6.8 |
| 31/07/2015 | 10.5 |

Dust Deposition Gauges

| Location | Result(g/m²/month) | Comment |
|-----------------|--------------------------------------|---|
| DDG 1 | 1.5 | Results likely affected by the marina works |
| DDG 2 | 1.0 | Results likely affected by the marina works |

