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Bass Point Quarry Air Quality Monitoring Data

Reporting Month: October 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

Pollutant	Averaging period	^d Criterion					
Total suspended particulates (TSP)	Annual	^а 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

Pollutant	Averaging period	^d Criterion					
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

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level					
^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

	DM40 04b
	PM10 24h average
Date	[µg/m³]
01/10/2018	<u>[μ</u> 9/] 11.0
02/10/2018	13.4
03/10/2018	14.3
04/10/2018	5.4
05/102018	12.8
06/10/2018	14.1
07/10/2018	5.7
08/10/2018	8.3
09/10/2018	16.3
10/10/2018	14.3
11/10/2018	10.3
12/10/2018	7.8
13/10/2018	12.2
14/10/2018	18.1
15/10/2018	13.2
16/10/2018	19.4
17/10/2018	16.1
18/10/2018	15.0
19/10/2018	25.3
20/10/2018	31.3
21/10/2018	11.7
22/10/2018	18.8
23/10/2018	30.4
24/10/2018	21.5
25/10/2018	18.0
26/10/2018	21.2
27/10/2018	23.4
28/10/2018	16.4
29/10/2018	19.6
30/10/2018	33.0
31/10/2018	30.4

Dust Deposition Gauges

Location	Result(g/m2/month)	Comment
DDG 1	1.5	
DDG 2	5.4	

Representative Weather Data

, ,,,,	,, 00	_		<i>,</i> , , ,	our re	,		ind	l aust			0						2	pm		
Date	Day	Ten	•	Rain	Evap	Sun			gust	Tomp	DΗ		am Dir	Snd.	MCID	Temp	DΗ			Snd	MCID
Date	Day	°C	°C	mm	100.000	hours			local	°C	К П %	8 th		km/h	hPa	°C		8 th		km/h	hPa
1	Mo	10.0		0	111111	IIUuis	N		18:18	16.4		8-	ENE		Шга	18.4		8	NNE	26	IIFd
2		11.8		0					12:07	17.1			ESE						NNE	19	
		14.2		0			NNE W		12:46	17.1			NNE			19.5 23.6			M	20	
3		14.4		3.0			S		20:50	14.5			SSW	15 20		14.4			SW	17	
4		13.1		45.4			S		07:25	14.5			S			16.0			S	39	
5 6		13.1		0.8			S		16:25	16.2			S			16.4			S	28	
7																					
		12.3		7.0			SSW		19:19	13.4			SSW	39		15.6			SSW	31	
8		13.2		22.8			SSW		00:35	16.6			SSW	33		18.1			S	31	
9		12.7		3.2			SSW		21:39	18.1			N			20.3			NNE	13	
10		14.5		6.6			SSE		09:06	15.3			S			15.1			S	39	
11		11.9		4.8			SSE		23:58	13.5			SSW	19		15.7			SSE	28	
12		13.1		0.2			SSE		01:38	15.4			S			16.0			SSE	26	
13		12.4		1.4			NE		19:43	15.3				Calm		18.7			ESE	9	
14		14.9		1.4			N		22:03	18.3			NE			19.3			NE	24	
15		15.9		3.0			NE		12:19	17.3			NE	6		17.6			NNE	20	
16		16.7		10.2			N		01:29	19.3			NNE	22		20.2			NNE	28	
17	We	17.2	20.3	0			NNE	48	17:12	18.8	86		NNE	17		19.3	86		NNE	20	
18	Th	15.0	22.1	5.0			NNE	35	11:11	19.7			NNW	15		21.4			NNE	17	
19	Fr	14.5	23.0	20.8			N	31	16:48	18.5	89		N	6		21.2	79		NNE	13	
20	Sa	15.9	21.3	0.2			W	41	15:21	19.3	86		N	11		19.8	81		N	15	
21	Su	13.4	18.0	1.6			SSW	50	02:40	14.9	78		SSW	17		16.4	69		S	22	
22	Мо	14.7	21.2	0			N	35	17:20	17.9	73		N	6		20.5	73		NNE	15	
23	Tu	15.4	22.1	0			SSW	76	22:49	19.1	77		NNE	17		21.4	72		N	17	
24	We	15.7	17.5	0			SSW	80	23:57	15.9	72		SSW	33		16.3	66		S	30	
25	Th	14.5	20.2	0			SSW	31	01:27	17.4	71		Е	4		19.6	72		NE	15	
26	Fr	15.1	18.9	0			SW	52	05:16	17.1	73		SSW	19		17.8	68		SSE	19	
27	Sa	13.4	21.2	0			SSW	44	18:59	18.7	60		N	11		20.8	67		NNE	20	
28	Su	15.5	17.2	0			S	57	05:08	16.1	59		S	41		16.5	66		SSE	28	
29		14.7		0			S		13:43	16.9			S			18.3			SSE	17	
30		15.2		0			SSW		23:00	19.1			N			21.0			N	24	
		16.0		0			SSW		23:32	18.4			SE			21.8			SE	11	
Statistics for October 2018																					
Mean 14.2 19.6 17.0 75 18 18.6 71 21																					
		10.0		0						13.4			(Calm		14.4			ESE	9	
		17.2		45.4			SSW	80		19.7				41		23.6			S		
	Fotal	2	24.5	137.4			5011			13.7	J1			71		23.0	٥,		3	- 55	
				131.4																	