

**Simtars**

Queensland Government

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30 November 2001

Natural Resources and MinesBrisbane City Council
Scenic Drive
Mt Coot-tha
BRISBANE QLD**Attention: Mr Neil Cox**

Dear Mr Cox

Ambient Air Monitoring

Attached is our report on the Ambient Air Monitoring carried out at the Mt Coot-tha Quarry during the period 23 October to 23 November 2001.

If you have any questions concerning the content of this report please contact Simtars at the number detailed.

Yours sincerely

for Paul Harrison
Manager

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Laboratory Test Report

REPORT NO: OE101229F

ISSUE DATE: 30 November 2001

SIMTARS FILE REF: 50/3/10/12/29

CLIENT/CUSTOMER NAME: Brisbane City Council

APPLICANT/CUSTOMER REFERENCE: Mr Neil Cox

JOB DESCRIPTION: Ambient Air Monitoring

DATE RECEIVED/SURVEY DATE: 23 October - 23 November 2001

SAMPLE/S COLLECTED BY: Brisbane City Council

CHECKED BY: *Mal* APPROVED SIGNATORY: *Mark Cantrell*

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Occupational Hygiene, Environment and Chemistry Centre



REPORT NO: OE101229F

Introduction

SIMTARS were contacted by Mr Neil Cox of Brisbane City Council regarding ambient air monitoring tests at the Mt Coot-tha quarry site. High volume samplers were used during the months of October and November 2001 to collect TSP and PM10 dust portions. The samples were collected about every second day over the sampling period.

Methodology

Total Suspended Particulates was analysed according to Australian Standard AS 2724.3-1984 *Ambient Air - Particulate Matter Part 3 - Determination of Total Suspended Particulates (TSP) - High Volume Sampler Gravimetric Method*.

PM10 particulate matter was analysed according to Australian Standard AS 3580.9.6 (1990) *Methods for sampling and analysis of ambient air Method 9.6: Determination of suspended particulate matter - PM₁₀ high volume sampler with size-selective inlet - Gravimetric method*.

Results

Monitoring test results are detailed in the Appendix.

Acknowledgment

The co-operation and assistance of all persons involved during the sampling was most appreciated.

References

Australian Standard AS 3580.9.6 (1990)

Methods for sampling and analysis of ambient air Method 9.6: Determination of suspended particulate matter - PM₁₀ high volume sampler with size-selective inlet - Gravimetric method.

Australian Standard AS 2724.3-1984

Ambient Air - Particulate Matter Part 3 - Determination of Total Suspended Particulates (TSP) - High Volume Sampler Gravimetric Method.



Occupational Hygiene, Environment and Chemistry Centre



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Appendix

Table 1: Results of TSP and PM10 monitoring at Mt Coot-tha Quarry

Sampling Location	Sampling Date Start	Start Time	Finish Time	Sampling Period	Volume Sampled (m3)	PM10/TSP	Concentration (ug/m3)
Weighbridge	23 Oct 01	11:40	12:02	24.3	1541.0	TSP <i>avg</i>	36.7
Weighbridge	23 Oct 01	11:45	12:00	24.2	1492.9	PM10	19.4
Weighbridge	25 Oct 01	11:50	12:17	24.4	1534.3	TSP	56.6
Weighbridge	25 Oct 01	11:57	12:20	24.4	1490.5	PM10	39.2
Weighbridge	29 Oct 01	11:48	12:23	24.6	1546.9	TSP	62.4
Weighbridge	29 Oct 01	11:47	12:49	25.0	1527.1	PM10	34.8
Weighbridge	31 Oct 01	11:02	11:18	24.3	1528.0	TSP	172
Weighbridge	31 Oct 01	10:55	11:14	24.3	1484.4	PM10	76.2
Weighbridge	1 Nov 01	11:21	11:27	24.1	1515.5	TSP	91.4
Weighbridge	1 Nov 01	11:17	11:24	24.1	1472.2	PM10	51.3
Weighbridge	5 Nov 01	11:51	12:08	24.3	1528.0	TSP	44.2
Weighbridge	5 Nov 01	11:54	12:07	24.2	1478.3	PM10	20.5
Weighbridge	7 Nov 01	13:39	13:48	24.2	1531.9	TSP	46.5
Weighbridge	7 Nov 01	14:28	14:37	24.2	1488.1	PM10	22.2
Weighbridge	8 Nov 01	13:52	14:03	24.1	1539.4	TSP	33.6
Weighbridge	8 Nov 01	15:35	15:45	24.1	1495.4	PM10	21.7
Weighbridge	12 Nov 01	11:12	11:16	24.1	1511.0	TSP	171
Weighbridge	12 Nov 01	11:00	11:15	24.3	1480.0	PM10	70.3
Weighbridge	14 Nov 01	10:23	11:01	24.7	1568.6	TSP	101.7
Weighbridge	14 Nov 01	10:23	10:58	24.6	1523.8	PM10	56.9
Weighbridge	15 Nov 01	13:32	14:02	24.5	1591.1	TSP	53.7
Weighbridge	15 Nov 01	13:46	14:00	24.2	1526.7	PM10	33.8
Weighbridge	20 Nov 01	10:27	10:35	24.2	1527.8	TSP	132.2
Weighbridge	20 Nov 01	11:07	12:15	25.1	1539.4	PM10	56.3
Weighbridge	22 Nov 01	10:27	11:05	24.6	1595.3	TSP	79.5
Weighbridge	22 Nov 01	10:28	11:03	24.6	1549.7	PM10	42.8

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