



A GREENCAP
CONSULTING COMPANY

Risk Management Services

NOEL ARNOLD & ASSOCIATES PTY LTD
A.C.N. 006 318 010 A.B.N. 76 006 318 010
Level 2, 11 Khartoum Road,
North Ryde, NSW 2113 Australia
Phone: (02) 9889 1800
Fax: (02) 9889 1811
Email: sydney@noel-arnold.com.au
www.noel-arnold.com.au

ASBESTOS FIBRE AIR MONITORING REPORT

Our Ref: C107605:J111804 023-20120907
Client: Hanson Construction Materials Pty Ltd
Attention: Martin Gear - Project Manager Aggregates
Job Location: East Guyong Quarry, Mitchell Highway, East Guyong NSW
Report Date: Friday 7th September 2012 **Test Date:** Friday 7th September 2012
Sampling Procedure: Control **Sampled By:** Pumps On: SM
Pumps Off: SM

Method: Filters examined in accordance with Safe Work Australia's Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2nd Edition, 2005 [NOHSC:3003: (2005)] – Refer NAA Internal Laboratory Test Method NALAB 301.

| Filter No. | Test Type Sample Location | Sample Period Start-Finish | Average Flow Rate (L/min) | Fibres/ Fields | Result(s) Fibres/mL |
|---|--|-------------------------------|------------------------------|-------------------|------------------------|
| Control static monitoring during digging of trenches east and west of Entry Road no. 3410 | | | | | |
| | Field Blank | – | – | 0.0/100 | – |
| 2269 | Location 1 – Near Southern Boundary of Site, Access Road to Residence (No.3472) off Mitchell Highway, approx. 120 metres North of South Site Boundary – On barbed wire fence | 0908 – 1450 | 1.50 | 0.0/100 | < 0.01 |
| 1368A | Location 4 – Near Eastern Boundary (near SE Corner) of Site, approx. 70 metres West of Shed, Access Road – On barbed wire fence | 0938 – 1426 | 1.50 | 0.0/100 | < 0.01 |
| 2217 | Location 5 – Near Eastern Boundary (near Centre) of Site, approx. 50 metres West of East Site Boundary – On fencing post | 0935 – 1429 | 1.50 | 0.0/100 | < 0.01 |
| 2226 | Location 6 – Western Boundary of Proposed Quarry Pit (near Western Site Boundary) – On barbed wire fence | 0916 – 1440 | 1.50 | 0.0/100 | < 0.01 |
| 2030 | Location 8 – Western Boundary (near NW Corner) of Site – On barbed wire fence | 0920 – 1447 | 1.50 | 0.0/100 | <0.01 |
| 2182 | Location 10 – Near Northern Boundary of Site (near NE Corner Site) – On fencing post | 0928 – 1434 | 1.50 | 0.0/100 | < 0.01 |

| Filter No. | Test Type Sample Location | Sample Period Start-Finish | Average Flow Rate (L/min) | Fibres/ Fields | Result(s) Fibres/mL |
|--|--|-------------------------------|------------------------------|-------------------|------------------------|
| 2207 | Location 3.1 – West Side of Access Road Entry (No.3410) off Mitchell Highway, adjacent Entry Gate – On barbed wire fence | 0845 – 1459 | 1.50 | 1.0/100 | < 0.01 |
| 1308 | Location 3.2 – East Side of Access Road Entry (No.3410) off Mitchell Highway, approx. 20m North of Entry Gate – On barbed wire fence | 0846 – 1501 | 1.50 | 0.0/100 | <0.01 |
| 2065 | Location 3.3 – East Side of Access Road Entry (No.3410) off Mitchell Highway, approx. 70m North of Entry Gate, approx. 10m South of Windmill – On barbed wire fence | 0849 – XXXX | – | 0.0/100 | Void |
| 2031 | Location 3.4 – West Side of Access Road Entry (No.3410) off Mitchell Highway, approx. 50m North of Entry Gate – On barbed wire fence | 0850 – 1503 | 1.50 | 0.0/100 | < 0.01 |
| 911A | Location 3.5 – Near Southern Boundary (SE Corner) of Site, West of Access Road Entry (No.3410) off Mitchell Highway, Plant Compound, Lunch Shed, 100m from South Site Boundary & 50 metres from Access Road – On bench | 0856 – 1507 | 1.50 | 1.0/100 | < 0.01 |
| Exposure monitoring during digging works | | | | | |
| 1220 | John Willis – Excavator Operator (EODO) | 0848 – 1505 | 1.50 | 2.0/100 | < 0.01 |

Note: Filter 2065 voided due to flow rate exceeding variation criteria (+/-10%).

**APPROVED COUNTER AND SIGNATORY :
SIMON BUTTERFIELD**



This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17025. Corporate Site No. 5450, Site No. 3402 Sydney Laboratory.

This document shall not be reproduced, except in full.

Figure 1 – Air Monitoring Locations



**Air Monitoring Sampling Plan
East Guyong Quarry Site**

Monitoring Date: 7th September 2012

Legend

- X 1** Air monitoring locations
- Project Boundary
- Proposed Quarry Boundary
- Proposed Infrastructure Area Boundary

Air Monitoring Location Coordinates

| | | | |
|--------------------|------------------------|----------------------|------------------------|
| Location 1: | 709,104mE ; 6300,660mN | Location 6: | 708,803mE ; 6301,185mN |
| Location 3: | 709,600mE ; 6300,372mN | Location 8: | 708,824mE ; 6301,587mN |
| Location 4: | 709,729mE ; 6300,716mN | Location 10: | 709,465mE ; 6301,633mN |
| Location 5: | 709,870mE ; 6300,905mN | Location 3.5: | 709,526mE ; 6300,440mN |

Weather Conditions*

| | | | |
|-----------------|----------|-----------------------|------------------|
| General | Overcast | Wind Direction | SW – WNW |
| Rainfall | 0.0 mm | Wind Speed | 22.8 – 56.4 km/h |

* East Guyong Quarry Weather Station