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## ASBESTOS FIBRE AIR MONITORING REPORT

Our Ref: C107605:J111804.151-20131002

Client: Hanson Construction Materials Pty Ltd

Attention: Martin Gear - Project Manager Aggregates

Job Location: East Guyong Quarry, Mitchell Highway, East Guyong NSW

Report Date: Tuesday 8 October 2013 Test Date: Wednesday 2 October 2013

Sampling Procedure: Control Sampled By: Pumps On: Pere Riini (Hanson)
Pumps Off: Pere Riini (Hanson)

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

| Filter<br>No.   | Test Type<br>Sample Location   | Sample<br>Period<br>Start-Finish | Average<br>Flow Rate<br>(L/min) | Fibres/<br>Fields | Result(s)<br>Fibres/mL |
|---|--|----------------------------------|---------------------------------|-------------------|------------------------|
| Control/static monitoring during earthworks in the Infrastructure Area on the East Guyong Quarry Site |  |                                  |                                 |                   |                        |
| 169567  | Field Blank  | -                                | -                               | 0.0/100           | -                      |
| 169671  | Location 1 – Near Southern Boundary of<br>Site, Access Road to Residence (No.3472)<br>off Mitchell Highway, approx. 120 metres<br>North of South Site Boundary – On barbed<br>wire fence                 | 0702 – 1346                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169663  | Location 3 – Near Southern Boundary (SE<br>Corner) of Site, Adjacent to New Access<br>Road Entry (No.3410) off Mitchell Highway,<br>approx. 30 metres from South Site Boundary<br>– On barbed wire fence | 0705 – 1349                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169651  | Location 4 - Near Eastern Boundary (near<br>SE Corner) of Site, approx. 70 metres West<br>of Shed, Access Road - On barbed wire<br>fence   | 0708 – 1352                      | 1.00                            | 1.0/100           | < 0.01                 |
| 169524  | Location 5 - Near Eastern Boundary (near<br>Centre) of Site, approx. 50 metres West of<br>East Site Boundary - On fencing post   | 0711 – 1355                      | 1.00                            | 2.0/100           | < 0.01                 |
| 169504  | Location 6 - Western Boundary of<br>Proposed Quarry Pit (near Western Site<br>Boundary) - On barbed wire fence   | 0716 – 1359                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169783  | Location 8 – Western Boundary (near NW<br>Corner) of Site – On barbed wire fence   | 0719 – 1402                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169958  | Location 10 - Near Northern Boundary of<br>Site (near NE Corner Site) - On fencing post  | 0725 – 1407                      | 1.00                            | 0.0/100           | < 0.01                 |



| Filter<br>No.  | Test Type<br>Sample Location                                    | Sample<br>Period<br>Start-Finish | Average<br>Flow Rate<br>(L/min) | Fibres/<br>Fields | Result(s)<br>Fibres/mL |
|--|---|----------------------------------|---------------------------------|-------------------|------------------------|
| 169637   | Location N1 - Northern Boundary Fence of Infrastructure Area    | 0728 – 1410                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169631   | Location N2 - Western Boundary Fence of Infrastructure Area     | 0737 – 1419                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169499   | Location N3 - Eastern Boundary Fence of<br>Infrastructure Area  | 0731 – 1413                      | 1.00                            | 0.0/100           | < 0.01                 |
| 169519   | Location N4 - Southern Boundary Fence of<br>Infrastructure Area | 0734 – 1416                      | 1.00                            | 0.0/100           | < 0.01                 |
| Exposure/personal monitoring during earthworks in IA |   |                                  |                                 |                   |                        |
| 169702   | Excavator Operator - B. Fardon (EODO)                           | 0742 – 1424                      | 1.00                            | 0.0/100           | < 0.01                 |

Note: Pere Riini of Hanson Construction Materials Pty Ltd has been formally trained as a third party for volume measurement. Noel Arnold & Associates Pty Ltd assume responsibility for the data collected.



APPROVED COUNTER & SIGNATORY: SIMON BUTTERFIELD

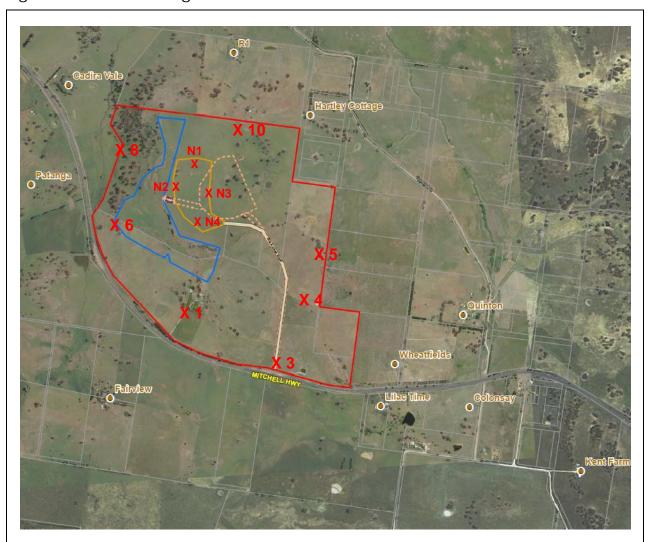


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Figure 1 – Air Monitoring Location



## Air Monitoring Sampling Plan East Guyong Quarry Site

Monitoring Date: 2<sup>nd</sup> October 2013

708,824mE; 6301,587mN 709,465mE; 6301,633mN

## Legend

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

| ΑII | Monitoring | Location Coordinate | 35 |
|-----|------------|---------------------|----|
|     |            |                     |    |

| Location 1: | 709,104mE; 6300,660mN | Location N1: | 709,211mE; 6301,528mN |
|-------------|-----------------------|--------------|-----------------------|
| Location 3: | 709,601mE; 6300,370mN | Location N2: | 709,035mE; 6301,323mN |
| Location 4: | 709,729mE; 6300,716mN | Location N3: | 709,396mE; 6301,245mN |
| Location 5: | 709,870mE; 6300,905mN | Location N4: | 709,208mE; 6301,040mN |
| Location 6: | 708,803mE; 6301,185mN |              |                       |

Location 8:

Location 10:

| Weather Conditions* |              |                |                 |  |
|---------------------|--------------|----------------|-----------------|--|
| General             | Frost - Fine | Wind Direction | Mostly Westerly |  |
| Rainfall            | 0 mm         | Wind Speed     | 4 – 41 km/h     |  |

<sup>\*</sup> East Guyong Quarry Weather Station

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