

30 October 2017
Mr Md. Shasuzzaman
Environmental Engineer
Randwick City Council
192 Storey Street
MAROUBRA NSW 2035
Mail to: Zaman.Shamsuz@randwick.nsw.gov.au

;Phone 4751 2104; Mobile 0405 454 447

Our Reference: RCC-171027-Heffron park-clr-letter

Dear Zaman,

ASBESTOS CLEARANCE INSPECTION & AIR MONITORING FOR REMEDiated ASBESTOS-CEMENT AREAS HEFFRON PARK, MAROUBRA

As requested, I carried out a visual clearance inspection for the presence of asbestos-cement (AC) and conducted airborne asbestos monitoring in open space areas on the Heffron Park site located at Maroubra on 26 and 27 October 2017.

I. Clearance Inspection

The purpose of the inspection was to validate the identified areas with significant AC contamination within the park following remediation by an asbestos removal contractor for the purpose of clearance certification. The remediation procedure involved the disturbance of soils and physical handpicking of AC fragments from the ground surfaces.

A total of six (6) significant surface contaminated AC areas (designated grid areas) were identified and recorded through logging and mapping with a hand-held GPS during a recent visual inspection survey, as referenced in the report, RCC-170915-Heffron Report, dated September 2017.

The remediation of these areas was undertaken by Lidoran Environmental Services, a licensed asbestos removal contractor on 26 and 27 October 2017. The contractor was responsible for removing AC found in these locations through handpicking all visible AC fragments; from the surface of the soils and AC uncovered from sub-surface soils.

The major contaminated AC areas requiring remediation were detailed in the inspection report and represented on a 'google' earth grid map for ease of recognition, refer to attached map. The areas were identified in the report as follows:

1. Grid Areas N15-N17. Area West of Amenity/Clubhouse Building (adjacent to Swimming complex Carpark). 7
2. Grid Areas I16/17-K16/17 & L17-M17. Area North of Amenity/Clubhouse Building (adjacent to Swimming complex Carpark).
3. Grid Areas S11 Corner north of Cycle track opposite AFL playing field.
4. Grid Areas O10-R10. Area east of tennis/squash courts and fenced off excavation area, with hill to the east.
5. Grid Areas E13-E15. Area along log post & wire fence, bordered by cycle track to north & netball courts to south.
6. Grid Areas O14-R14. Old retaining wall of sleepers with trees dividing two playfields north of Cycle track.

Following the completion of the remediation of the areas by the contractor, I carried out a final visual inspection. The inspection involved walking over the significant contaminated site areas with selected disturbance of denuded areas in an attempt to find asbestos-cement pieces that were present on the ground surface and that may have been slightly buried.

At the completion of the inspection I was satisfied the six areas of significant AC contaminated areas inspected by me were clear and free of AC fragments from ground surfaces.

It should be noted, there may be AC that is covered by soil or grass that was not visible during the inspection. If this is unearthed during future remediation work or surface preparation activities, it should be addressed through the procedures in the Asbestos Management Plan, treated as asbestos waste and disposed of to an approved waste depot.

II. Airborne Asbestos Monitoring

The purpose of the air sampling was to conduct air monitoring during the remediation of AC from major contaminated ground surface areas in the park by the asbestos licensed contractor. The aim of the air monitoring was to confirm the park environment contained no airborne asbestos fibres during these disturbance activities and there was no risk in relation to health and safety of persons undertaking this activity or frequenting the

The air monitoring was undertaken in three (3) location areas. Attached, NATA endorsed Certificate of Analysis, Reference 93755/58, dated 27 October 2017 gives results of airborne fibre measurements conducted at the three (3) locations in the Heffron Park area. Air monitoring was not carried out on 27 October 2017 due to the rain that fell on the night before and during the remediation work.

The results for airborne asbestos samples taken are below the detection limit of the method of 10 fibres per 100 fields or less than 0.01 fibres per millilitre of air, and are therefore completely satisfactory. These results indicate that no measurable amounts of airborne fibres were present.

III. Conclusion

A significant amount of AC fragments was removed from the six (6) localised ground surface areas and the removal was carried out effectively and diligently using controlled measures. Nevertheless, the significant soil disturbance during the handpicking procedure represents a worst-case scenario and the air monitoring results substantiate the low risk of exposure during these activities.

Therefore, following the satisfactory inspection and air monitoring results, the designated clearance areas have been certified as clear of asbestos.

Based on these findings and the amount and nature of the asbestos-cement fragments, it can be stated there has been no measurable risk to the health of the worker, park user or resident in relation to the asbestos-cement found at the site.

Prepared by,



Gary Rhyder,
Licensed Asbestos Assessor, LAA 0160
Occupational Hygienist, FAIOH. COH®

HEFFRON PARK MAROUBRA
AREAS OF ASBESTOS CONTAMINATION REQUIRING REMEDIATION





27 October 2017

Mr Md Shamsuzzaman
Environmental Engineer
Randwick City Council Depot
192 Storey Street
MAROUBRA NSW 2035

Email: zaman.shamsuz@randwick.nsw.gov.au

CERTIFICATE OF ANALYSIS - AIRBORNE ASBESTOS FIBRES

YOUR REFERENCE/JOB No.: -
TYPE OF SAMPLES: Membrane filters - as sampled by G. Rhyder (LAA 000160)
SITE LOCATION: Heffron Park, Maroubra
DATE SAMPLED: 26 October 2017 **DATE RECEIVED:** 26 October 2017
DATE ANALYSED: 27 October 2017 **OUR REFERENCE:** 93755/58

TEST METHOD: Filters examined in accordance with the April 2005 National Occupational Health & Safety Commission "Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres" (2nd Edition), as per Laboratory Method MFM/1.

The samples were taken in the following locations during the remediation of asbestos-cement in major contamination areas within Heffron Park:-

Sample No	Lab No	Location
A 11	93755	In tree in sand pit ~ 1.6 m high
A 20	93756	North of clubhouse, east of sandpit
A 10	93757	In tree along fence line between cycle way & netball courts
A 53	93758	Blank – control filter

The following airborne dust concentrations (fibres/mL) for the above samples have been calculated using sample durations and flowrates measured on site:-

Sample No	Start Time (24 hour)	Duration (min)	Av Flowrate (L/min)	Results (fibres/fields)	Concentration (fibres/mL)
A 11	0823	389	1.40	0/100	<0.01
A 20	0827	376	1.40	0/100	<0.01
A 10	0818	372	1.40	1/100	<0.01
A 53	-	-	-	0/100	O.K.*

* 'OK' denotes a satisfactory result for the blank filter

Analysed and reported by:

K. Grose,
Approved Counter and Signatory



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