

Mr Peter Ozols  
Project Manager  
Property Projects and Services  
ACT Property Group  
Fyshwick ACT 2609

By email: [peter.ozols@act.gov.au](mailto:peter.ozols@act.gov.au)

Wednesday, 20 March 2013

Dear Peter,

**Re: 750423 – Cost Assessment - Asbestos Dump Remediation - Yarralumla Brickworks - Yarralumla ACT**

Dear Peter,

Pleased refer to the attached spreadsheet which provides an indication of cost for the remediation of the ~~Asbestos Dump~~ located on the western boundary of the Yarralumla Brickworks, Yarralumla ACT (Block 1 Section 102). The dump also encroaches onto adjacent Public Land (Block 20 Section 102) and possibly Block 1 Section 127.

The cost estimate is based on current item costs obtained from local ACT contractors. The dump has been estimated to cover an area of 0.45 hectares and is known to be 4m deep in some locations. However, it is thought that the depth of impacted soil material is shallower toward the outer boundary of the dump. Therefore, the estimated volume of asbestos impacted soil has been based on a presumed depth of 2m across the area of impact (0.45 ha) which equates to a total volume of 9,000m<sup>3</sup> or 14,400 tonnes. Therefore, following site set up and vegetation removal this volume could be removed in approximately 4 weeks to the West Belconnen Landfill provided all relevant approvals were in place.

Robson Environmental recommends that this estimate be used as a guide only and should be revised when more information becomes available.

Yours sincerely,



Ben Kendon  
Senior Consultant – HAZMAT  
Class A Asbestos Assessor (ACTPLA)  
License No: 2006638

Attachment A. Draft Cost Spreadsheet  
Attachment B. Asbestos Dump Location Plan

Attachment A. Cost Estimate

Project Number: 750423 - Cost Estimate - Asbestos Dump Remediation - Yarralumla Brickworks			
Activity or Item	Number of Units	Unit Cost (\$)	Projected Cost (\$)
Stage 1 - Site Establishment	Stage 1 - Site Establishment (Lump Sum)	5,100.00	5,100.00
Stage 2 - Remove Vegetation - Blackberry and other small plants	Stage 2 (Lump Sum)	5,100.00	5,100.00
<b>Stage 3 - Removal of Asbestos and Separation of Recycled Waste (Bricks, Concrete, Metal) - 20 Days (10 hours per day)</b>			
Labor Hire (per Hour)- 2 personnel	400	85.00	34,000.00
Floatage (per Float)	2	650.00	1,300.00
Excavator 20-30t (per Hour)	200	200.00	40,000.00
SemiTipper (per hour)	200	145.00	29,000.00
Bobcat (per hour)	200	90.00	18,000.00
Water Truck (per Hour)	200	130.00	26,000.00
Asbestos Labor (per Hour) - 4 Personnel	800	110.00	88,000.00
Brick/Concrete disposal (per Tonne)	0	30.00	-
Asbestos disposal (Per Tonne) - expected to vary.	14,400	130.00	1,872,000.00
Siever Plant (per Day)	Unknown	Option to be assessed	Option to be assessed
Air monitoring	20	750.00	15,000.00
Class A Asbestos Assessor/ Environmental Scientist	200	165.00	33,000.00
Project Management (per Hour)	40	185.00	7,400.00
<b>Stage 5 - Site Validation (Estimate only - to be costed based on sampling plan)</b>			
Sample Analysis and Reporting (does not include the cost of an EPA Accredited Auditor)	1	15,000.00	15,000.00
<b>Stage 6 - Site Reinstatement (cost of soil replacement only)</b>			
Virgin soil import (per Tonne rate only - does not include cartage)	14,400	11.00	158,400.00
<b>Total Projected Cost</b>			<b>2,347,300.00</b>
<p><b>Table Notes:</b> The projected cost is based on a 20 Day operational phase for Stage 3. Assume 14,400 tonnes of asbestos and asbestos impacted soil waste. Disposal costs include cartage to West Belconnen Landfill This figure is based on the assumption that 2 metres of impacted soil across an area of 0.45 hectares.</p>			

Attachment B. Dump Location Plan

