



PROJECT WASTE MANAGEMENT PLAN - PRELIMINARY  
KNOX GRAMMAR SCHOOL  
PROJECT - MONTGOMERY & MCKENZIE REFURBISHMENT

## **WASTE MANAGEMENT PLAN**

**Project Name:**                    **Montgomery & McKenzie Refurbishment**

**Location:**                    **11-17 Woodville Ave & 1495-1499  
Pacific Hwy, Wahroonga, NSW  
2076.**


**State:**                        **NEW SOUTH WALES**

**Principal Contractor:**    **TBC**

**Project/Job No:**            **EC1314**

# AUTHORISATION

## WASTE MANAGEMENT PLAN INFORMATION

Approved by	Position	Signature	Date
Yvette Boston	Project Manager		29/01/2015

Rev No.	Issue date	Description	Issued to				
			Company	Name	Position	By hand	email
01	16/01/2015	Preliminary plan	EPM Projects	Yvette Boston	Project Manager	x	x
02	19/01/2015	Preliminary plan	EPM Projects	Kemal Ozsayin	Project Coordinator	x	x
03	22/01/2015	Preliminary plan	EPM Projects	Yvette Boston	Project Manager		x
04	29/01/2015	Preliminary plan	EPM Projects	Yvette Boston	Project Manager		x

Note: A new version number to the Plan infers that the previous Plan has been superseded. This Waste Management Plan has been drafted for the specific Project Site. On appointment of the Principal Contractor, this plan will be further adapted to suit the project design and management systems in use by the Principal Contractor.

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# SYSTEM INTRODUCTION

<b>INTRODUCTION</b>	<p><i>This Waste Management Plan has been produced for the following purposes:</i></p> <ul style="list-style-type: none"> <li>• <i>Compliance with State Environmental Policy.</i></li> <li>• <i>Establishment of objectives for the project.</i></li> <li>• <i>Identification of risks and control measure to mitigate those risks.</i></li> <li>• <i>Subcontractor Management requirements.</i></li> <li>• <i>Other EHS management requirements as required for this project.</i></li> </ul>	
<b>APPLICATION AND AUTHORISATION</b>	<p><i>This Waste Management Plan addresses how waste associated with the construction of the project will be managed during the project.</i></p>	
<b>KEY COMPONENTS</b>	<i>Legislative requirements</i>	<i>Requirements of current state environmental legislation have been incorporated as required into this Plan.</i>
	<i>Risk assessment</i>	<p><i>An assessment of the risk of work will be completed by either or both the appointed Contractor and applicable Subcontractors.</i></p> <p><i>The review of risk will be an on-going activity during the construction phase of this project.</i></p>
	<i>Documentation</i>	<i>Forms, registers and records will be maintained on site to provide an accurate record of information obtained throughout the project life.</i>
<b>POLICIES</b>	<p><i>Reference: TBC by appointed Contractor.</i></p>	
<b>DEFINITIONS</b>	<b>EHS-</b> <i>Environment, Health and Safety</i>	<b>National EHSQ Manager</b> = <i>National Environment, Health, Safety and Quality Manager</i>
	<b>Senior EHSQ Adviser-</b> <i>Senior Environment, Health, Safety and Quality Adviser</i>	<b>EHSQ Adviser</b> = <i>Environment, Health, Safety and Quality Adviser</i>
	<b>Principal</b> - <i>Client Representative, Project Manager, Superintendent</i>	<p><b>Site Manager and/or EHSQ Adviser =</b></p> <p><i>Where a dedicated (full time) EHSQ Adviser is located on the project, they will in conjunction with the Site Manager, be responsible for legal and Corporate EHS Management System requirement.</i></p> <p><i>Where there is no dedicated EHSQ Adviser on the project, the Site Manager will be responsible for legal and Corporate EHS Management System requirements, in conjunction with the a roaming EHSQ Adviser or the Senior EHSQ Adviser.</i></p>
<b>CORPORATE EHS MANAGEMENT SYSTEM DOCUMENTATION</b>	<p><i>In addition to the documentation referenced or referred to in this document, additional source information can be obtained thorough:</i></p> <p><i>Applicable documentation to be confirmed by the appointed Principal Contractor.</i></p>	
<b>CORPORATE EHS MANAGEMENT SYSTEM ACCESS</b>	<p><i>Document reference contained in this Plan (i.e. SOP's and Guidance Notes) will be further clarified by the appointed Principal Contractor as suited to their WHS management system.</i></p> <p><i>Additional information can be obtained from the appointed Principal Contractor.</i></p>	

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## PROJECT INFORMATION

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<b>PROJECT ADDRESS AND LOCALITY</b>	11-17 Woodville Avenue & 1495-1499 Pacific Hwy, Wahroonga, NSW, 2076.
<b>DURATION OF THE PROJECT</b>	<b>Weeks:</b> 80 <b>Start:</b> Nov 2015 <b>End:</b> May 2016
<b>PROJECT OVERVIEW</b>	<p>The project involves the refurbishment of part of the Montgomery &amp; McKenzie Buildings within the existing campus of Knox Grammar School.</p> <p>Works are in accordance with the project documents and associated drawings.</p>

# PROJECT WASTE MANAGEMENT

<b>ON SITE MANAGEMENT</b>	<i>General</i>	<ul style="list-style-type: none"> <li>Waste products will be recycled wherever possible.</li> <li>Waste bins will be provided and emptied regularly to ensure that the site is kept clean.</li> <li>General construction waste will be stored in skip bins at a nominated area on site. These will be collected weekly by the waste service providers and Sorted back at their yard. Waste reports will be provided monthly to track recycling percentages.</li> <li>Waste that is unsuitable for recycling will be disposed of to an approved landfill site.</li> <li>No burning of rubbish, wood or other materials is allowed on site.</li> <li>Tipping dockets will be obtained and a register of removed materials maintained.</li> </ul>
	<i>Solids and liquids</i>	<ul style="list-style-type: none"> <li>Disposal of solid and liquid waste will be by an approved contractor to an approved location.</li> <li>Liquid waste will be stored in impervious containers at a nominated location on site.</li> </ul>
	<i>Concrete</i>	<ul style="list-style-type: none"> <li>A concrete wash out area will be nominated on site.</li> <li>Concrete washout will be recycled where possible and used on site to stabilise access or for fill material.</li> </ul>
	<i>Contaminated</i>	<ul style="list-style-type: none"> <li>Contaminated materials identified on site will be managed on site and disposed of off-site by a licensed contractor.</li> <li>Contaminated soil is to be loaded directly into trucks and removed to an approved landfill site.</li> <li>Contaminated materials will be managed and disposed of in line with the project Hazardous Building Materials Assessment Report.</li> </ul>
	<i>Stockpiles</i>	<ul style="list-style-type: none"> <li>Stockpiles will be in areas approved by the Site Manager.</li> <li>Stockpiles will be managed to prevent pollution.</li> </ul>
	<i>Sewer</i>	<ul style="list-style-type: none"> <li>All waste from ablution blocks and lunch sheds will be connected to the main sewer system by a licensed contractor.</li> <li>All waste from portable ablution blocks will be disposed of by a licensed liquid waste transporter to an approved facility.</li> </ul>
<b>WASTE CONTRACTORIS</b>	<p>During the construction of the project, removal and recycling of waste will be provided by a future nominated Licensed Waste Service company.</p> <p>Waste removed from site will be transported to an approved waste or recycling facility. All waste removed from site will be tracked through waste documents and/or monthly waste reports provided by the contractor.</p> <p>The Waste contractor will measure the amount of waste (by mass) that is recycled and that which is transferred to land fill. These reports will be provided monthly, specific for the project for monitoring purposes to the targeted recycling amount of 80%.</p>	
<b>WASTE MATERIAL</b>	<p><i>Concrete other masonry product</i></p> <p><b>Approximate volume:</b></p> <p><b>Concrete – 75 m<sup>3</sup></b></p>	<p>Concrete waste generated during demolition will be recycled.</p> <p>Concrete wash out will be used for access paths and road where possible. All other concrete waste will be placed in designated skips on site.</p> <p>Excess concrete will be returned to the supplier.</p> <p>Masonry recovered during demolition will be recycled where possible by the demolition contractor.</p> <p>Masonry off cuts from construction may be reused on site for temporary access ways or placed in designated skip bins for recycling.</p>

	<p><i>General waste</i></p> <p><b>Approximate volume:</b> <b>5 m<sup>3</sup></b></p>	<p><i>All general waste generated on site including food scraps will be placed in the bins provided in the amenities buildings.</i></p> <p><i>Such waste will be removed from site by an approved contractor.</i></p>
	<p><i>Excavated material</i></p> <p><b>Approximate volume:</b> <b>Soil – 10 m<sup>3</sup></b></p> <p><b>Roof Tiles – 8 m<sup>3</sup></b></p> <p><b>Brick – 45 m<sup>3</sup></b></p>	<p><i>Normal excavation methods will be used by the approved contractor.</i></p> <p><i>Work areas will have identification barriers to prevent unauthorised access. All personnel will be required to follow the safety management plan while conducting excavations works.</i></p> <p><i>Any contaminated soil to be removed will be tested prior to removal directly to waiting trucks. Contaminated material will be transported by the most direct route to an approved treatment/landfill facility.</i></p> <p><i>The transport of all materials from the site will conform to the requirements of the EPA, Local Councils and other relevant authorities.</i></p> <p><i>Where contaminated material is to be stockpiled the area is to be designated by the approved consultant or site manager. Protective barriers are to be in place to warn and protect workers on site.</i></p> <p><i>Trucks removing material from site will have the loads securely covered to prevent spillage. Drivers are required to ensure that no materials are tracked onto the road. All traffic leaving the site is to use the designated wash down bay to remove mud, dust and other debris.</i></p> <p><i>Materials to be removed from site may include:</i></p> <ul style="list-style-type: none"> <li>• <i>General waste including organic material, concrete and other hard waste</i></li> <li>• <i>Imported fill material</i></li> <li>• <i>Topsoil</i></li> <li>• <i>Landfill waste</i></li> <li>• <i>General fill</i></li> <li>• <i>Unsuitable material</i></li> <li>• <i>Contaminated material</i></li> </ul>
	<p><i>Green waste</i></p> <p><b>3 m<sup>3</sup></b></p>	<p><i>Green waste generated as a result of tree felling, mulching or top soil removal will be:</i></p> <p><i>Maintained on site and reused during landscaping works.</i></p> <p><i>Removed from site and transported to an accredited waste facility.</i></p>
	<p><i>Glass, paper, plastic and cardboard</i></p> <p><b>Approximate volume:</b> <b>Glass - 3 m<sup>3</sup></b></p>	<p><i>During the construction of the project, such products will be placed in the site main bins for sorting and recycling.</i></p> <p><i>Glass waste generated onsite can be recycled.</i></p>
	<p><i>Plasterboard</i></p> <p><b>Approximate volume:</b> <b>Plasterboard – 10 m<sup>3</sup></b></p>	<p><i>During the construction of the project, such products will be placed in the site main bins for sorting and recycling.</i></p>
	<p><i>Polystyrene</i></p> <p><b>Approximate volume:</b> <b>5 m<sup>3</sup></b></p>	<p><i>During the construction of the project, such products will be placed in the site main bins for sorting and recycling.</i></p>
	<p><i>Steel and aluminum</i></p> <p><b>Approximate volume:</b> <b>Steel &amp; aluminum - 8 m<sup>3</sup></b></p>	<p><i>Where practicable, such products recovered during the demolition process will be recycled.</i></p> <p><i>During the construction of the project, such products will be placed in the site main bins for sorting and recycling.</i></p>



<p><i>Timber</i></p> <p><b>Approximate volume:</b> <b>Timber – 18 m<sup>3</sup></b></p>	<p><i>Timber recovered during the demolition process will be assessed on site by the demolition contractor and recycled where possible</i></p> <p><i>Timber will be used and cut in the most economical fashion where ever possible.</i></p> <p><i>Timbers for formwork, temporary structures and handrails will be reused and maintained at full lengths wherever possible.</i></p> <p><i>Rainforest timbers and Australian high conservation timbers will not be used on this project.</i></p>
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# CONSTRUCTION TRAFFIC MANAGEMENT PLAN

<b>SITE ESTABLISHMENT</b>	Approximately 1 Week
<b>TOTAL WORKS DURATION</b>	To be confirmed by the appointed Principal Contractor
<b>TRAFFIC CURFEW</b>	<p>Truck access movements will be subject to a "curfew" during the peak school arrival and departure periods for the hours (on school days) of: 8.00am – 8.30am 3.00pm – 3.30pm.</p> <p>Construction Hours will be aligned with the requirements set out in the Development Application Approval.</p>
<b>DEMOLITION</b>	<p>The Demolition Phase will primarily involve the Library Interior demolition and part demolition of building facades to facilitate planned extensions and new building link as well as paving and a small amount of outdoor vegetation. It is anticipated that the process will under taken in phases, to be further defined on contract award. Single Unit medium rigid trucks only will be used to transport the demolition material with the peak number of truck movements not expected to exceed 6 arrivals per day.</p>
<b>EXCAVATION</b>	<p>The volume of material to be excavated there are also likely to be days when no more than 2-3 truck movements occur. As with the demolition phase the trucks used during this phase will be single medium rigid dump vehicles (i.e. no truck and dog 'trailer' or articulated vehicles).</p>
<b>CONSTRUCTION</b>	<p>It is anticipated that the Construction Phase will take between 8-12 months to complete and there will be up to 25 workers onsite. On average, Construction Vehicle movements are likely to be in the order of 3 arrivals per day.</p> <p>It is proposed that all loading/unloading of material to/from trucks will be undertaken on-site or within a designated works zone. Traffic Controllers will be deployed at the site access throughout the project to manage the movement of construction vehicles entering and exiting the site and the safe interaction of these vehicles with pedestrian and general traffic movements on Borambil Street.</p>
<b>SITE INDUCTION</b>	<p>All Workers and visitors on the site will be subject to a formal induction process. Workers (and sub-contractors) will be:</p> <ul style="list-style-type: none"> <li>- advised of the limited parking available on the site</li> <li>- advised of the additional parking which be agreed and available within the School grounds (other than during school holiday periods)</li> <li>- encouraged to use public transport or car pool</li> </ul>
<b>CONSTRUCTION VEHICLE ROUTE</b>	<p>Construction vehicles approaching and departing the site will travel via the Borambil Street and Pacific Highway with LEFT or RIGHT in from the Highway and LEFT out only from Borambil Street. Other than those trucks exiting the site which have destinations north of the site (e.g. Hornsby/Berowra or F3) will travel south on the Pacific Highway to Mona Vale Road before travelling to areas to the east and west.</p> <p>The small number of trucks which are expected to have destinations in the north will use Fox Valley Way and Comenarra Parkway to Pennant Hills Road.</p>
<b>CRANAGE &amp; HANDLING</b>	<p>It is proposed that all loading/unloading of material to/from trucks will be undertaken within the construction compound. Accredited traffic controllers will be deployed at all times to facilitate the safe arrival and departure of trucks as necessary and ensure a safe environment for pedestrians and other road users.</p>

ConstructionTraffic  
Access route

