Lake Cathie Primary School

Waste Management Report
1240 Ocean Drive, Bonny Hills, NSW 2445

T 02 4961 5888
F 02 4962 2577
E admin@shac.com.au
W shac.com.au

224 Maitland Road, Islington NSW 2296

Nominated Architect Justin Hamilton (6160) | ABN 32 131 584 846
Schreiber Hamilton Architecture Pty Ltd trading as SHAC
## Summary of Revisions

<table>
<thead>
<tr>
<th>Revision</th>
<th>By</th>
<th>Review</th>
<th>Date</th>
<th>Comment</th>
</tr>
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<tr>
<td>1</td>
<td>RT</td>
<td>CV</td>
<td>09.10.18</td>
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## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DETAILS</td>
<td>4</td>
</tr>
<tr>
<td>WASTE MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>DEMOLITION</td>
<td>4</td>
</tr>
<tr>
<td>CONSTRUCTION</td>
<td>6</td>
</tr>
<tr>
<td>ONGOING OPERATION</td>
<td>6</td>
</tr>
</tbody>
</table>
## Details

<table>
<thead>
<tr>
<th>Project</th>
<th>Alterations &amp; additions to Lake Cathie Primary School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>1240 Ocean Drive, Bonnie Hills</td>
</tr>
<tr>
<td>Existing built environment</td>
<td>The site currently contains 14 demountable classrooms, a covered outdoor play area (basketball court) a hall, administration building, library and amenities building, cricket nets, and assorted small maintenance sheds, all accessed via concrete and bitumen internal circulation roads off Ocean Drive. The buildings are connected by covered walkways.</td>
</tr>
<tr>
<td>Description of proposed development</td>
<td>Addition of 3 new GPLA (classroom) buildings and a new school hall. Removal of existing demountable classrooms and covered walkway structures. Partial demolition of some existing paving and structures.</td>
</tr>
</tbody>
</table>

## Waste Management

**DEMOLITION**

**WASTE GENERATION**

Demolition is divided into distinct categories:

**ROADS, PATHS & PLAY AREAS**

Bitumen type internal roadways will be demolished, removed from site and recycled where appropriate.

Concrete roadway & path will be demolished, removed from site and recycled where appropriate.

**DEMOUNTABLE CLASSROOMS & COVERED WALKWAY STRUCTURES**

The existing steel framed basketball (COLA) structure will be carefully dismantled and removed from site for modification prior to its reuse on site as the primary structure for the new school hall.

The demountable classrooms will be removed from site and transported to another school in the area for re-use as learning spaces.

The covered walkway structure will be dismantled and removed from site. They will be reassembled and used at another school site in the area.

**WASTE MANAGEMENT**

Waste management should be in accordance with the Waste Avoidance and Recovery Act 2001 and that of local council.
The objectives of the Act are as follows:

1. To encourage the most efficient use of resources and to reduce environmental harm in accordance with the principles of ecologically sustainable development,
2. To ensure that resource management options are considered against a hierarchy of the following order:
3. Avoidance of unnecessary resource consumption,
4. Resource recovery (including reuse, reprocessing, recycling and energy recovery),
5. Disposal,
6. To provide for the continual reduction in waste generation,
7. To minimise the consumption of natural resources and the final disposal of waste by encouraging the avoidance of waste and the reuse and recycling of waste,
8. To ensure that industry shares with the community the responsibility for reducing and dealing with waste,
9. To ensure the efficient funding of waste and resource management planning, programs and service delivery,
10. To achieve integrated waste and resource management planning, programs and service delivery on a State-wide basis,

Port Macquarie Hastings Council DCP does not have specific controls relating to waste management for schools, however, this plan includes consideration of the waste generated through any demolition, construction and ongoing operation of the school and is consistent with the guiding waste management principles of:

- Reduce;
- Reuse;
- Recycle.

WASTE GENERATION

The builder will remove materials in accordance with local authority requirements. Further to this the table below summarises the amount of demolished materials likely to require removal from site:

<table>
<thead>
<tr>
<th>Table Header Bold</th>
<th>Recycle/Re-use</th>
<th>Disposal</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excavation material - cut</td>
<td>400m³</td>
<td></td>
<td>Re-use on site - fill.</td>
</tr>
<tr>
<td>Concrete roadway</td>
<td>18.65m³</td>
<td>Recycle</td>
<td></td>
</tr>
<tr>
<td>Bitumen roadway</td>
<td>128m³</td>
<td>Recycle</td>
<td></td>
</tr>
<tr>
<td>Demountable classrooms</td>
<td>No. 14 off</td>
<td></td>
<td>Relocate for re-use at other schools</td>
</tr>
<tr>
<td>Existing COLA structure</td>
<td>No. 1 off (1894 m² roof area)</td>
<td>Remove for refurbishment / modification and re-use in new Hall building on site</td>
<td></td>
</tr>
<tr>
<td>Existing covered walkway</td>
<td>123 lineal metres</td>
<td></td>
<td>Remove for refurbishment / modification and re-use at other schools</td>
</tr>
</tbody>
</table>
CONSTRUCTION

WASTE AVOIDANCE AND REDUCTION

Waste management during construction will be provided as part of a construction management plan prepared by the nominated successful contractor. It will include details of the reuse/recycling contractor and the landfill site nominated for disposal of any non-recyclable waste. Waste Avoidance and reduction measures will be encouraged during construction, with the following measures implemented:

- Only demolish the necessary parts of buildings on site and reuse where possible;
- Salvage demolished materials where practical for recycling and reuse;
- Buildings designed to suit typical material sizes, including brick and FC cladding sheet dimensions;
- All fixtures and fittings to be made to measure;
- Recycled materials will be utilised where ever possible;
- Measures will be taken to ensure the construction contractor is aware of the waste management procedures and adheres to appropriate guidelines.
- The remaining waste to be transported to a recognised builders recycling yard or waste facility.

ONGOING OPERATION

WASTE GENERATION

The schools current waste generation will increase in accordance with the increase in student numbers. From current enrolments of 315 students, to the “far horizon” estimate of 430 students in 2031. i.e. a 36% increase.

BIN STORAGE AREA

The existing bulk waste bin storage area will be retained in the south-eastern corner of the site and is accessed via the new driveway entrance off the new collector road. This area is for both recycling and general waste.

WASTE COLLECTION

Frequency of collections will be modified to suit the schools projected waste load.

GREEN WASTE

The school plan to establish a composting system for green waste collection to operate in conjunction with an overall school community garden program. The final location of the compost bins is yet to be determined, with the overall system sized to suit on-site supply and demand. Large quantities of green waste, such as that created by the maintenance of the APZ to the west of the site, will be removed from site by the external contractor responsible for the pruning that created the waste in question and will be disposed of in accordance with local authority requirements.

ON-GOING WASTE REMOVAL PROCEDURES

- The school cleaners will be allocated with the responsibility of transporting general waste from the classrooms, canteen and playground areas to the school waste storage area.
- The students and general assistant at the school will be allocated the responsibility of transporting recyclables from the classrooms, canteen and playground areas to the school waste storage area.
- The waste storage area is the collection point for both the general waste and recycling which is collected by private contractor, JR Richards.
- Maintenance: Management and cleaners shall be responsible for the maintenance of signage, the security of the waste storage area.
• Hygiene: The school cleaners should provide regular bin cleaning. This should include a specialised filtration service to ensure pollutants are collected and appropriately disposed in accordance with EPA Guidelines.

• Education: Signage is located on the garbage bins to identify which bins should be used for different waste and recyclable materials in accordance with the Councils waste minimisation policy.

• Appropriate staff and cleaners will be supplied with a copy of this waste management plan to inform them on the concepts of waste minimisation and recycling.

• Appointed staff members and cleaners will monitor the waste areas and report to school management on any issues that require rectification.