WASTE MANAGEMENT PLAN FOR CONSTRUCTION AND OCCUPATION

Riverwood North Residential Renewal Project

25 October 2010

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1. INTRODUCTION

Dasco Australia Pty Ltd has prepared this waste management program to detail how waste generated from both during construction and the occupation of the Riverwood North Residential Renewal Project will be managed for the development purpose.

2. SITE AND LOCATION

The subject site has a main frontage to Washington Avenue and Kentucky Road.
The sites are currently occupied by single and two story residential buildings fig 1.

Fig 1.

3. CONSTRUCTION

The construction project is for multi storey residential buildings of both private and public housing with associated landscaping and recreation facilities

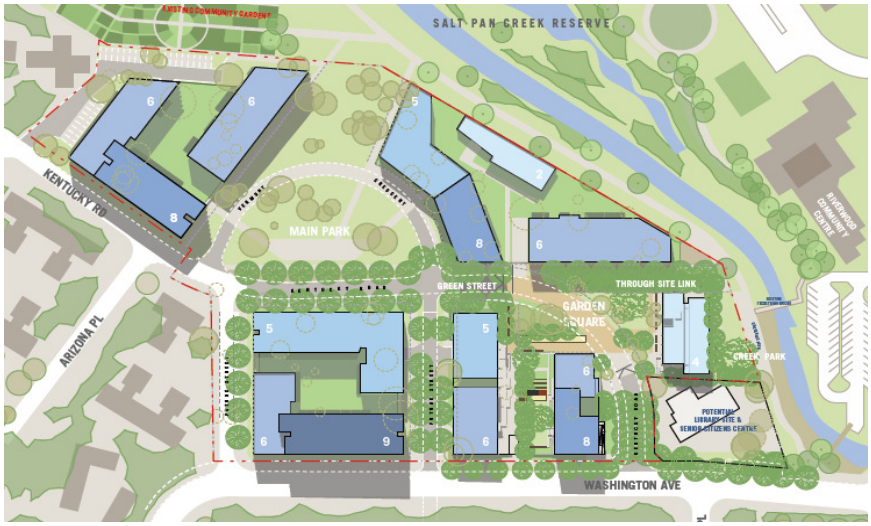


Fig 2.

a. SITE ACCESS

Vehicle Site access is intended to be via Washington Avenue and Belmore Road, Dasco Australia Pty Ltd will advise the key stakeholders of the need to use any alternative entrance

b. CONSTRUCTION SITE ACCESS

The existing laybacks on Kentucky Road will be utilized as the main site access for the duration of the project; additional access may be provided using crushed concrete and wash down hoses for all weather access.

c. SEDIMENT CONTROL

Sediment control will include the benching of all excavations and the use of silt barriers to the storm water drains.

d. SITE SECURITY

Site security will be provided by temporary 1.8m construction fencing openings in the construction fencing, at the temporary construction access driveways will have pedestrian warning signs and construction safety signs/devices will be located adjacent to the driveways, in accordance with WorkCover requirements.

e. AMENITIES

Offices, Lunch Rooms and toilet facilities will be provided in accordance with the NSW Code of Practices for Amenities.

f. CONSTRUCTION PHASES

The construction phases can be identified as

- Excavation
- Piling and slab on ground
- Structure
- Roof
- Finishes
- Landscaping

g. EXCAVATION PHASE

It is estimated some 11000m2 of excavated material (250 trucks) over a 10 week period will be taken from the site to Kurnell Land fill, this is a relevant low movement equaling 40 trucks per day, these trucks will be loaded with material onsite.
The excavation process will involve the clearing of the site top soil and the excavation of ground and basement levels. Excavators will be used to extract material from the site. Benching will be carried out as required during the excavation process.
During the excavation phase water hoses will be used for dust mitigation and all vehicles will have loads covered prior to leaving the site to prevent dust and dirt being tracked out onto the street.

h. PILING AND SLAB ON GROUND

Ground floor preparation will include piling, drainage and the pouring of a concrete slab for ground level. The major traffic-generating activity during the construction of the ground slab will occur during concrete pours.
Concrete placement will utilise on-site concrete pumps positioned adjacent to the building.
Careful ordering of concrete will result in minimum waste any unforeseen waste will be utilised in providing all weather access driveways and paths.
Steel waste from reinforcement will be recycled by Sell & Parker at Banksmeadow all timber waste from formwork will be taken by skip bin for recycling at the Timber recycling yard.

i. STRUCTURE PHASE

The structure will require scaffolding, brick laying, windows, door frames and concrete slabs for all levels.
Concrete placement and brick deliveries are the major traffic-generating activity during this phase and bricks will be unloaded on site using forklift and truck fitted hiab cranes again all Concrete placement will utilise on-site concrete pumps positioned adjacent to the building.
Brick and mortar waste will be deposited in skip bins on site and taken for recycled at the Concrete Recyclers located at Camelia.
General waste will be separated into designated bins from Dial a dump and taken to Alexandria.

j. ROOF PHASE

Concrete placement will utilise on-site concrete pumps positioned adjacent to the building.
Installation of the timber frames and metal roof requiring craneage for placement.
Metal waste will be recycled by Sell & Parker at Banksmeadow and timber waste will be included with the formwork recycling .

k. FINISHES PHASE

Render, tiling, joinery and painting this phase will generate general waste to be separated into designated bins from Dial a dump and taken to Alexandria.
Deliveries will be by trade delivery vehicles with the occasional tip truck, this phase is not anticipated to cause any disruption to normal traffic within the area.

l. LANDSCAPING

This phase of construction will include driveways, paths, planter boxes and garden areas, the major waste generated will be bricks and mortar to be recycled at Camelia and general waste to be taken by Dial a Dump.

m. OCCUPATIONAL HEALTH AND SAFETY

As required within the NSW Occupational Health and Safety Regulations 2001, Dasco Australia Pty Ltd will manage the site in accordance with a safety management system compliant to AS 4801.

All contractors will provide and comply with site specific Safe work method statements for the trades they are performing.

Fall and overhead protection will be provided to the project by the use of scaffold complete with hand rails, mid rails, kick boards and mesh to public areas, no overhead work will occur external to the site.

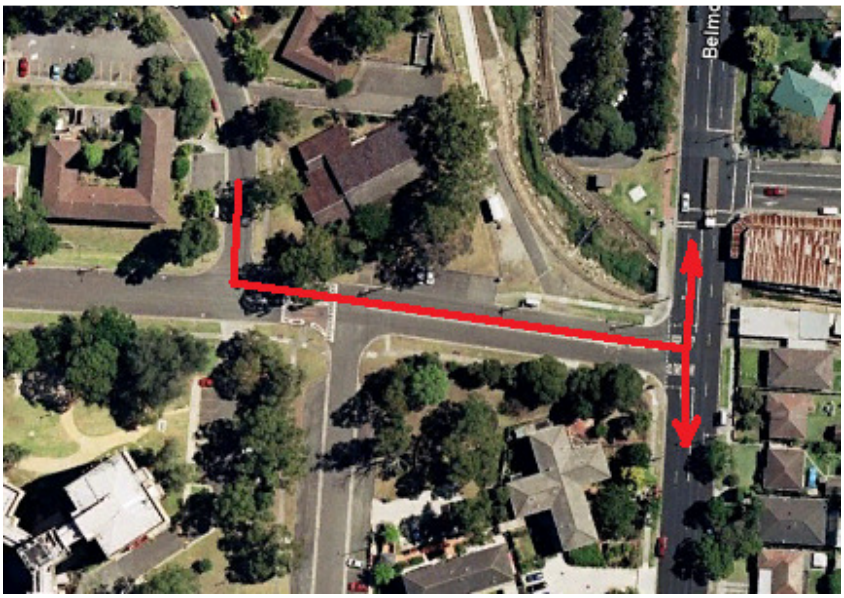
n. TRAFFIC MANAGEMENT

The nominated construction site entrances will be the existing lay backs located on Kentucky Road approximately 30 meters north of the intersection of Washington Avenue.

Both Kentucky Road and Washington Avenue provide for two way traffic the intersection at Washington Avenue is uncontrolled but provides excellent visibility for turning.

The intersection of Washington Avenue and Belmore Road is controlled by a Give Way sign, north on Belmore Road is also controlled by traffic lights with the requirement to keep the intersection clear of queuing traffic.

It can be seen from the designated truck routes (figure) that truck movements to and from the site during the construction period, will be restricted to the main road network.



Dasco will erect signage to direct construction traffic onto and off of the site. This will be positioned as required.
A Traffic Control Plan TCP1 (attachment 1) will be provided to Canterbury Council and prior to works commencing on site.

4. WASTE GENERATION, STORAGE & COLLECTION

a. WASTE STREAMS

There will be three separate categories of waste streams for the development garbage, recyclables and green waste the following provides a detail plan as determine from the Canterbury Council Waste Info Kit identifying the likely type, volumes and best method of collection.

b. RESIDENTIAL COMPONENT

Residential waste generated per unit is calculated in accordance with Canterbury Council Waste Info Kit.

240 litre wheelie bins for household (putrescible) - garbage at a rate of 1 x 240l bin per 2 units per week.

240 litre wheelie bins for recyclables at a rate of 1 x 240l bin per 3 units per fortnight.

240 litre wheelie bins for Green waste bins are at a rate of 1 per 5 units per fortnight

c. COLLECTION

The bins will be stored within garbage rooms of both buildings within 15 meters of direct access to the road.

ATTACHMENT 1.

Dasco Australia Pty Ltd
Traffic Control Plan
Riverwood Urban Development
TCP 1 Truck movement
25/10/2010