Environmental & Construction Waste Management Plan (EMP)

Project Name: **Settlers Estate – Stage 4**

Address: 731 Great Western Highway
WERRINGTON NSW 2747

Job Nº: WerGre731

Commencement Date: 7/12/2020

By

Linx Constructions Pty Ltd

ABN 35 606 571 274

Controlled ☐

Uncontrolled ☒

Authorised By: _____
Project Manager

Date: 7/12/2020

Controlled Document Register

The following is used to record any Controlled Document issued. It is optional and not necessary to record Uncontrolled documents issued.

Issue	*Section*	*Page*	*Document / Description*	*Issued To*	*Date*
1	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	19/07/2013
2	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	7/10/2013
3	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	20/01/2015
4	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	31/07/2015
5	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	18/09/2015
6	All	All	Enviro. & Waste Mgt. Plan	Head Contractor	18/08/2016
7	All	All	Constr. Waste Mgt. Plan	Head Contractor	1/10/2017
8	All	All	Enviro. & Const Waste Mgt. Plan	Head Contractor	7/12/2020

Document Revision Status

The following is used to record any changes.

Section	*Revision*	*Date*	*Amendment Description*
Appendix 6 page 19	2	7/10/2013	Appendix 6 & add appendix 10 & 11
Appendix 11 page 26	3	20/01/2015	Updated drawing & note added
Items 4.01, 4.12 & 4.13	4	31/07/2015	Reference hours of work & waste
Items 3.01 last bullet point, Appendix 2 (change from "Building Services" to "Civil Services" penultimate trade heading), Appendix 3, Appendix 5 (change from "Construction Phase" to "Civil Stage", general changes & omit note), Appendix 6, Appendix 7 and Appendix 10 (change from "30 villas" to "30 lots" penultimate page)	5	18/09/2015	Remove reference residential villas.
Items 6 & 7 and Appendix 4, 5 & 11	6	18/08/2016	
Added Appendix 10, updated Appendix 11 & 12	7	1/10/2017	Waste management checklists added, Updated plans for Stage 3
All sections and Appendices updated	8	7/12/2020	Stage 4

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1.00 OBJECTIVE

The objective of this plan is to minimise any impact to the environment during construction of the project, through the implementation of necessary planning, practices, procedures and precautions.

2.00 Scope and Implementation

The management and protection of the environment includes the management of any harmful substances, pollution, noises, dust, etc. to the environment and the general public.

The land, known as 731 Great Western Highway Werrington NSW 2747 is situated on the southern side of St Charbel Boulevard, northern side Great Western Highway or eastern side French Street. The site comprises of all the land contained in Lots 125 & 126 DP 1215199 with an area of 48,980m^2 (4.898ha) by survey.

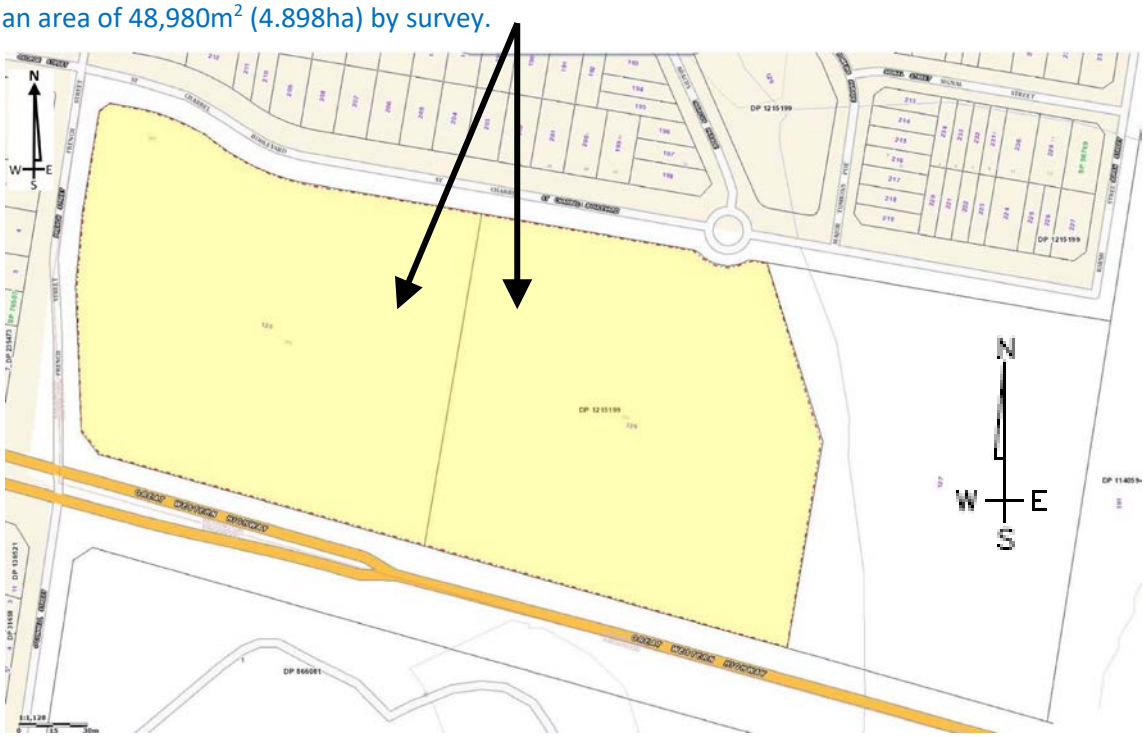


Figure 1: Site area to be enclosed by the proposed development – Mapping source: 6 Maps

3.00 Hours of Operation

Work associated with demolition, excavation, remediation and shoring for the development will be carried out between the following hours (i.e. DA Consent number DA16/0566 dated 26/04/2017 condition 40 used as guide for hours of work):-

- Monday to Friday: 7:00am to 6:00pm;
- Saturday: 7:00am to 1:00pm; and

- Sunday / Public Holidays: no work.

Any work outside these times would be subject to a separate application to Council. The control of hours of operation avoids truck movements during the early hours of the morning, before 7:00am and in the evening, after 5:00pm.

4.00 Waste Management Plan

.01 A waste management plan has been completed outlining:

- Land use or activity proposed
- Details of waste management for demolition and construction phases
- Type and amount of waste to be generated
- On-site storage and treatment of waste
- Disposal of leftover waste
- Ongoing management of waste for the life of the building

.02 In calculation of waste the following conversions have been used:

➢ Timber	=	0.5 tonne per m^3
➢ Concrete	=	2.4 tonnes per m^3
➢ Bricks	=	1 tonne per m^3
➢ Tiles	=	0.75 tonne per m^3
➢ Metal	=	3 tonnes per m^3
➢ Steel	=	2 to 4 tonnes per m^3
➢ Plasterboard	=	0.5 tonne per m^3

5.00 Execution of Environmental Management Plan

.01 To minimise noise and disturbance to the surrounding environment, the approved hours of work will be strictly adhered to.

a) Refer Project Safety & Environmental Management Plan (SSMP) section 8.00 SP655 Site Specific Induction item 2.2 for 'hours-of-work'

b) All demolition and construction works that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties, are restricted to the:

- 'hours-of-work' in accordance with the NSW Department of Environment and Climate Change's (2009) "Interim Construction Noise Guideline"; and
- provisions of the Protection of the Environment Operations Act 1997 in regulating offensive noise also apply to these works

.02 Dust suppression techniques such as water spray etc. will be used during excavation and cleaning where excessive dust particles are in the air.

.03 All equipment and machinery will be regularly maintained for safety and to minimise any unnecessary exhaust and other harmful gaseous fumes.

.04 Settlement tanks serving the site have been placed on each level for stormwater filtration. Cleaning of these tanks will be done on a periodic basis as the tanks become full.

.05 Excavation trucks will have their wheels cleaned prior to re-entry on to the road from the site.

.06 All archaeological and heritage acts will be observed and maintained where necessary.

.07 Timers will be connected to lights (e.g. hoarding, footpath, etc.) to minimise any unnecessary wasting of electricity.

.08 Sufficient rubbish bins will be positioned next to the amenity areas for the workers. A licensed company will perform waste removal in a professional manner.

.09 There will be strict control on harmful substances and chemicals (e.g. paint, waterproofing chemicals, welding gases, etc.).

.10 The use of mesh and screens to the perimeter of the building and hoarding will protect the public and the environment from possible falling objects.

.11 If required the hoarding will be painted periodically to maintain a 'fresh look'. Anti-poster meshing is to be placed along the walls of the hoarding.

.12 Waste materials stored on-site are to be contained within a designated area such as a waste bay or bin to ensure that no waste materials are allowed to enter the stormwater system or neighbouring properties. The designated waste storage area/s shall provide at least two waste bays/bins so as to allow for the separation of wastes, and are to be fully enclosed when the site is unattended.

.13 Excavated material and other wastes generated are to be re-used, recycled or disposed of. Waste materials not specified in this waste management plan are to be disposed of at a lawful waste management facility. All receipts and supporting documentation retained in order to verify lawful disposal of materials and made available on request.

6.00 Waste Minimisation & Demolition

6.01 Section One – Demolition – Appendix 4

This is the stage with the greatest potential for waste minimisation, particularly in Sydney where there are high levels of development, relatively high tipping charges and where alternative quarry materials are located on the outskirts.

We have and will give further consideration to possible re-use of the existing buildings, or parts thereof, for the proposed use.

With careful on-site sorting and storage and by staging work programs, it is possible to re-use many materials, either on-site or off. Instead of simply pulling down a building, waste

management encourages the practice of recycling on site. This could require a number of colour-coded or clearly labelled bins on-site rather than one size fits all.

.01 Location of on-site storage space for materials (for re-use) and containers for recycling and disposal.

.02 Vehicle access to the site and to storage and container areas.

6.02 Section Two – Construction & Use – Appendix 5, 6 & 7

.01 Appendix 5 – Section 2(a) – Potential for Waste Minimisation During Construction Stage

The following measures should be considered when looking to save resources and minimise waste at the construction stage.

- Purchasing Policy- considering measures such as ordering the right quantity of materials and prefabrication of materials where possible;
- Reusing formwork;
- Minimising site disturbance, limiting unnecessary excavation;
- Careful source separation of off-cuts to facilitate re-use, resale or efficient recycling; and
- Co-ordination / sequencing of various trades.

The following details should be shown on plans:

- Location of temporary storage space within each dwelling unit;
- Location of Waste storage and recycling Area(s), per dwelling unit or located communally on-site. In the latter case this could be a Garbage and Recycling room;
- Details of design for Waste Storage and Recycling Area(s) or Garbage and Recycling Room(s) and any conveyance of volume reduction equipment; and
- Location of communal composting area.

.02 Appendix 6 – Section 2(b) – Design of Facilities

The following details should be shown on your plans:

- Location of Waste Storage and Recycling Area(s) per unit or located communally on-site;
- Details of design of Waste Storage and Recycling Area(s);
- Where appropriate, design details of Garbage and Recycling Room(s);
- Careful source separation of off-cuts to facilitate re-use, resale or efficient recycling; and
- Access for vehicles.

Every building shall be provided with a Waste Storage and recycling Area which is flexible in size and layout to cater for future changes in use. The size is to be calculated on the basis of waste generation rates and proposed bin sizes.

.03 Appendix 7 – Section 2(c) – On-going Management

This section will enable you to describe how you intend to ensure on-going management of waste on-site (e.g. lease conditions, care-taker / manager on-site).

7.00 Statement of Responsibilities

In accordance with the terms and conditions of contract the Project Manager is to ensure the Contractor complies with the Environmental & Construction Waste Management Plan (EMP).

8.00 References

The Works will be undertaken in accordance with the following legislation requirements:

- AS 2601–2001 – The Demolition of Structures;
- 'hours-of-work' in accordance with the NSW Department of Environment and Climate Change's (2009) "Interim Construction Noise Guideline";
- Protection of the Environment Operations (Waste) Regulation 2005;
- provisions of the Protection of the Environment Operations Act 1997 in regulating offensive noise also apply to these works; and
- Council DA Consent. As this document is being prepared for a DA Consent then Council's development application requirements.

9.00 Legend

ACM	Asbestos Containing Material
ASA Lic	SafeWork NSW friable asbestos license (previously known as AS1)
ASB Lic	SafeWork NSW bonded asbestos license (previously known as AS2)
ASB	Asbestos – Asbestiform varieties of mineral silicates belonging to the serpentine or amphibole groups of rock forming minerals including, actinolite asbestos, grunerite (or amosite) asbestos (brown), anthophyllite asbestos, chrysotile asbestos (white), crocidolite asbestos (blue) and tremolite asbestos or a mixture of any part these
CMP	Construction & Demolition Management Plan
COP	Code of Practice (e.g. COP produced by SafeWork NSW previously known as WorkCover Authority of NSW)
EMP	Environmental & Waste Management Plan
ENM	Excavated Natural Material – the EPA encourages the recovery of resources from waste where this is beneficial and does not harm the environment or human health. ENM is naturally occurring rock and soil (including but not limited to materials such as sandstone, shale, clay and soil) that has: ➢ been excavated from the ground ➢ contains at least 98% (by weight) natural material

	➢ does not meet the definition of VENM in the Act
EPA	NSW Environmental Protection Authority (changed to DECCW 4/04/2011, then OEH & back to EPA)
GSW	General Solid Waste – Special Waste – entails sampling and analysis at a NATA accredited laboratory, assessment of results and issuing of certificated in accordance with Waste Classification Guidelines (Part 1 : Classifying Waste – Department of Environment & Climate Change NSW (April 2008) changed from term of inert class 2 etc. to new classifications) ➢ Special waste – GSW Asbestos Waste – this is GSW but with asbestos ACM (Asbestos Containing Material) fragments within it ➢ Liquid waste – GSW Liquid Waste – waste not capable of being picked up with shovel ➢ Hazardous waste – GSW Hazardous – higher than RSW and cannot be taken off-site ➢ Restricted solid waste – GSW Restricted – a highly contaminated ➢ General solid waste (putrescible) – GSW Putrescible [definition putrescible liable to become putrid] – Higher level contaminated ➢ General solid waste (non-putrescible) – GSW Non-putrescible – Low level contaminated
RMS	Roads & Maritime Services (previously known as RTA)
PPE	Personal Protection Equipment
PTMP	Pedestrian & Traffic Management Plan
SafeWork NSW	Previously known as WorkCover NSW – September 2015 changed name to SafeWork NSW
SWMP	Soil and Water Management Plan
TBA	To be Advised (part of later stage and not relevant to this stage of work)
VENM	Virgin Excavated Natural Material – entails clays, sand, soil and rock that is natural and is not mixed with any fill or contaminated soil. Generally entails a site visit and inspection, and issuing of certificate
WHS	Work Health & Safety
WHS Act	Work Health & Safety Act 2011
WHS Reg.	Work Health & Safety Regulation 2017 (2011 regulation repealed 11 August 2017)
WMS	Work Method Statement (also known as ESWMS 'Environmental & Safe Work Method Statement' & SWMS 'Safe Work Method Statement' or QHS&E Quality, Health, Safety & Environmental)

Appendix 1 – Statement of Responsibilities – ITF 750

Intentionally omitted as dealt with in section 5.00 (Statement of Responsibilities) and appendix 2 (Action Plan) of the Environmental & Waste Management Plan EMP.

Appendix 2 – Action Plan – ITF 755

Action Plan

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

Action	*If Applicable*	*Responsible Person*
General Site Management		
Implement the Soil and Water Management Plan SWMP for the site	☒	Foreman
Sweep roads free of dirt each day	☒	Subcontractor
Regularly check and clean silt from behind silt fences and barriers if required	☒	Foreman
All vehicles to remain on clean all weather surface within the site	☒	Foreman
Minimise water use for cleaning	☒	Subcontractor
Install appropriate silt fences and other sediment control structures	☒	Foreman
Ensure sediment control measures are in place before starting clearing and excavation activities	☒	Foreman
Install a fence at the site boundary to limit site access from the footpath	☒	Foreman
Minimise clearing of vegetation	☒	Subcontractor
Fence off no-go areas to minimise disturbance	☒	Foreman
Stockpile materials only in designated areas behind sediment fences	☒	Foreman
Limit vehicle entry points and lay geo-textile and blue metal to stabilise vehicle access ways	☒	Foreman
Do not disturb the nature strip between the site and the roadway	☒	Foreman
Implement the site Construction Waste Management Plan (see attached)	☒	Foreman
Order only the required quantity of materials	☒	Subcontractor
Separate recyclable from non-recyclable waste	☒	Subcontractor
Other:		
Ensure the correct waste containers are used by all site personnel	☒	Foreman
Minimise chemicals stored on site	☒	Subcontractor
Make staff aware of emergency phone numbers (such as the fire brigade) to use in case of a large spill	☒	Foreman
Keep Material Safety Data Sheets (MSDSs) on site at all times	☒	Foreman
Keep clearly marked booms and⁄or absorbent material on site to contain spills if they occur	☒	Subcontractor
If a spill occurs, stop the source, contain it, clean up in accordance with MSDSs and notify relevant authorities	☒	Foreman
Damp down dusty areas as required	☒	Subcontractor
Do not burn off any waste products or off cuts	☒	Subcontractor

Action	*If Applicable*	*Responsible Person*
Identify site access with minimal impacts on residents and instruct trucks to use this access	☒	Subcontractor
Avoid parking site vehicles where they will unduly impact local sue of the street	☒	Subcontractor
Do not place waste containers, skip bins or building materials on road or footpath – store all materials within the work site	☒	Subcontractor
Limit hours of operations to suit local council requirements listed in consent conditions	☒	Foreman
Use noise suppressors on machinery	☒	Subcontractor
Do not use loud radios where neighbours can be disturbed	☒	Subcontractor
Take appropriate care when using construction equipment adjacent to buildings	☒	Subcontractor
Advise the adjoining neighbours of the work at least one week prior to commencement, including hours of work	☒	Project Manager
Protect trees during construction	☒	Foreman
Do not stockpile soil or other machinery under the canopy of a protected tree as designated by the client or the local council	☒	Subcontractor
Ensure site amenities such as sheds and material storage areas are not sited underneath tree canopies or in a position to disturb neighbours	☒	Foreman
Identify and protect heritage items present on site	☒	Foreman
Demolition		
Stockpile materials only in designated areas behind sediment fences	☒	Subcontractor
Cover stockpiled materials with plastic to prevent erosion by wind and rain	☒	Subcontractor
Install a fence around the site with a cloth barrier to act as a wind break if dust is a problem	☒	Subcontractor
Damp down surfaces such as stockpiles as required to reduce wind blown dust	☒	Subcontractor
Implement the site Demolition Waste Management Plan (see attached)	☒	Foreman
Do not bury or burn demolished materials on site	☒	Subcontractor
Ensure hazardous materials such as asbestos are handled and disposed of correctly by licensed contractors, following EPA requirements	☐ n/a	Subcontractor n/a
Do not mix hazardous materials with other demolition materials	☒	Subcontractor
Identify and protect heritage items present on site	☒	Foreman

Action	*If Applicable*	*Responsible Person*
Concreting		
Wash out trucks at supplier's depot	☒	Subcontractor
Wash out in an area where water cannot enter waterways, stormwater drains, footpaths or roads, preferably up slope from a sediment control device	☒	Subcontractor
Collect wash water in plastic container carried by delivery truck and return with the truck to the supplier for recycling or proper disposal	☒	Subcontractor
Collect wash water in an on-site container to allow solids to settle	☒	Subcontractor
Irrigate a flat grassy area with diluted wash water, ensuring that it does not enter waterways or stormwater	☒	Subcontractor
Other:		
Implement the site Construction Waste Management Plan (see attached)	☒	
Order and supply only sufficient quantities of concrete	☒	Subcontractor
Return excess concrete with delivery truck to supplier for recycling or proper disposal	☒	Subcontractor
Use excess concrete as fence post footings or place on areas to be used for paths or driveways	☒	Subcontractor
Store excess concrete in a lined bin or pit for eventual recycling or disposal	☒	Subcontractor
Bricklaying		
Wash out in an area where water cannot enter driveways, stormwater drains, footpaths or roads, preferable up slope from a sediment control device	☒	Subcontractor
Collect wash water in an on-site container to allow solids to settle	☒	Subcontractor
Irrigate a flat grassy area with diluted wash water, ensuring that it does not enter waterways or stormwater	☒	Subcontractor
Ensure brick cutting is undertaken where waste water will not run onto footpaths or roads	☒	Subcontractor
Implement the site Construction Waste Management Plan (see attached)	☒	
Store excess mortar with waste concrete in a lined bin or pit for eventual recycling or disposal	☒	Subcontractor
Painting		
Wash out in an area where water cannot enter driveways, stormwater drains, footpaths or roads, preferable up slope from a sediment control device	☒	Subcontractor
Transfer as much paint as possible back to the tin	☒	Subcontractor

Action	*If Applicable*	*Responsible Person*
Spin brushes and roller sleeves in a waste paint drum	☒	Subcontractor
Irrigate a flat grassy area with diluted wash water, ensuring that it does not enter waterways or stormwater	☒	Subcontractor
For solvent based paints, return to a solvent recycling depot	☒	Subcontractor
Dispose of solid paint waste with other solid waste	☒	Subcontractor
Determine if lead is present in surfaces to be painted	☐ n/a	Subcontractor n/a
Seal the area with plastic sheeting to prevent escape of dust	☒	Subcontractor
To prevent lead fumes, do not use open flame torches on lead paint	☐ n/a	Subcontractor n/a
Use a high efficiency particulate air (HEPA) vacuum clean to clean up lead dust	☐ n/a	Subcontractor n/a
Wash surfaces with a small amount of high phosphate detergent	☒	Subcontractor
Minimise paints and chemicals on site by ordering the minimum quantities	☒	Subcontractor
Store paints and chemicals in a 'bunded' area where they can be contained if spills occur	☒	Subcontractor
Keep Material Safety Data Sheets (MSDSs) on site at all times	☒	Foreman
Keep clearly marked booms and/or absorbent material on site to contain spills if they occur	☒	Subcontractor
Other:		
If a spill occurs, stop the source, contain it, clean up in accordance with the MSDSs and notify relevant authorities	☒	Foreman
Building Services		
Fill in service trenches as soon as work is completed to minimise erosion	☒	Subcontractor
Cover service trenches with plastic sheeting or another suitable cover if filling cannot be immediately completed	☒	Subcontractor
Connect guttering and downpipes to the stormwater system as soon as the roof is completed	☒	Subcontractor
Other:		
Ensure there are no cross connections made between the stormwater and public sewerage system	☒	Subcontractor
Landscaping		
Once no longer required, reinstate ground level around the works, fill spoon drains and sediment basins, level banks and remove surplus soil	☒	Subcontractor

Action	*If Applicable*	*Responsible Person*
Complete landscaping and revegetation as soon as possible following building activities	☒	Subcontractor
Ensure sediment control measures are in place until all vegetation is established	☒	Foreman
Regularly check all sediment control structures to ensure they are working effectively	☒	Foreman
Ensure that no disturbance of the nature strip occurs between the site and the roadway	☒	Foreman
Do not locate stockpiles within two metres (2m) of hazard areas such as spoon drains or areas of high flow	☒	Subcontractor
Ensure stockpiles and open dusty areas are damped down as required	☒	Subcontractor
Cover stockpiles as needed to minimise dust	☒	Subcontractor
Ensue that soils and fill used in landscaping area are free from weeds and weed seeds	☒	Subcontractor
Ensure appropriate trees are chosen for the site and location relative to building and services considering their eventual height and root system	☒	Project Manager

× Non Conformance ☐ Not Applicable ☒ Applicable

Appendix 3 – Land Use or Activity Proposal – ITF 760

Land Use or Activity Proposal

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

Buildings and other structures currently on site

There are no buildings and any other structures on site (proposed stage 4 area) as at 23/09/2020.

Brief description of proposal

Civil works including footpaths, roads and services.

The details provided on this form are the intentions for managing waste relating to this project.

Signature of Applicant: ..... Mobile Ph: .....

Contractor

Date: .....

Appendix 4 – Details of Waste Management – Demolition Phase – ITF 765

Details of Waste Management – Demolition Phase – Stage 1

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

Materials On-Site			Destination		
			Reuse and Recycling		Disposal
Type of Material	Estimated		On-Site	Off-Site	
	Vol. (m^3)	Wt. (t)	Specify proposed reuse or on-site recycling methods	Specify contractor and recycling outlet	Specify contractor's landfill site
Bricks	n / a	n / a	n / a	n / a	If found during works Subcontractor to remove bricks to concrete recyclers
Timber	n / a	n / a	n / a	n / a	Subcontractor to remove to recyclers
Green waste – Tree Waste	10		Separated, chipped and stored on-site for re-use on environmental controls during civil works & remainder for landscaping	n / a	Nil
Concrete	n / a	n / a	n / a	n / a	If found during works Subcontractor to remove concrete to concrete recyclers
Metal waste – Water pipes, gutters, lead	n / a	n / a	n / a	n / a	If found during works Subcontractor to remove recyclers
General waste	n / a	n / a	n / a	n / a	Segregated and remainder by subcontractor to waste contractor to tip
Excavation material	n / a	n / a	All material reused on site as expected to import fill to make-up quantities	n / a	n / a

Appendix 5 – Details of Waste Management – Construction Phase – ITF 770

Details of Waste Management – Construction Phase – Stage 2(a)

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

Materials On-Site			Destination		
			Reuse and Recycling		Disposal
Type of Material	Estimated		On-Site	Off-Site	
	Vol. (m^3)	Wt. (t)	Specify proposed reuse or on-site recycling methods	Specify contractor and recycling outlet	Specify contractor's landfill site
Excavation material			See demolition section	n / a	n / a
Green waste – Tree waste			See demolition section	n / a	n / a
Concrete	6	15	Separated	To Concrete Recyclers for crushing & recycling	Remainder by Contractor to tip
Metal waste – Copper, aluminium	6	17	Separated	Scrape to metal recyclers such as Top Dollar Padstow	Remainder by Contractor to tip
General waste	28		n / a	n / a	Remainder by Contractor to tip

Appendix 6 – Use of Premises – ITF 775

Intentionally omitted.

Appendix 7 – Ongoing Management of Waste – ITF 780

Intentionally omitted.

Appendix 8 – Soil and Waste Management Plan (SWMP) – ITF 785

Intentionally omitted as dealt with in the Soil and Waste Management Plan SWMP (SP 670).

Appendix 9 – Environmental Report – ITF 790

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

Checklist for Applicants

	Yes	No
Is the waste management plan completed?		
Are facilities available for the separation of wastes and recyclables?		
Has an area been allocated for the storage and collection of wastes?		
Are the waste storage and collection areas located so as to provide easy access for both occupants and collection services?		
Do your plans show details of on-site storage space for construction materials, waste materials and recyclables?		
Is the project planned to maximise the reuse of materials?		
Have arrangements been made for the ongoing management of waste?		

Checklist of site works

	Yes	No
Is the waste management plan acknowledged on-site?		
Are waste responsibilities clarified for all personnel and sub-contractors?		
Are works scheduled to minimise time between delivery and installation?		
Is the site planned and managed to minimise wastes?		
Have you arranged for the sale of recycled and salvaged materials?		
Are waste bins covered, sign-posted and properly used?		
Is site signage in place indicating environmental/ waste commitment?		

Environmental Report

Project: 731 Great Western Highway WERRINGTON NSW 2747 Job Nº: WerGre731

	Issue	*Yes*	*No*
1.	Are all sediment control structures in place, cleaned out and operating? If "no", provide details.		
2.	Have there been any (verbal or written) complaints from nearby residents, local council or the Environment Protection Authority (EPA) in relation to site activities such as noise, dust, traffic, dirt trucked on roads or stormwater pollution? If "yes", detail complaints and response to the complaints.		
3.	Have there been any incidents on the site such as spills of chemicals or fuel? If "yes", describe what happened and what was done to clean up the spill.		
4.	Are there any areas of the EMP that have not been complied with? If so, detail.		
5.	Have any further strategies been employed to reduce waste going to landfill?		
6.	Other comments (list any other environmentally related issues):		

Report Performed By:

Signature Print Name Date

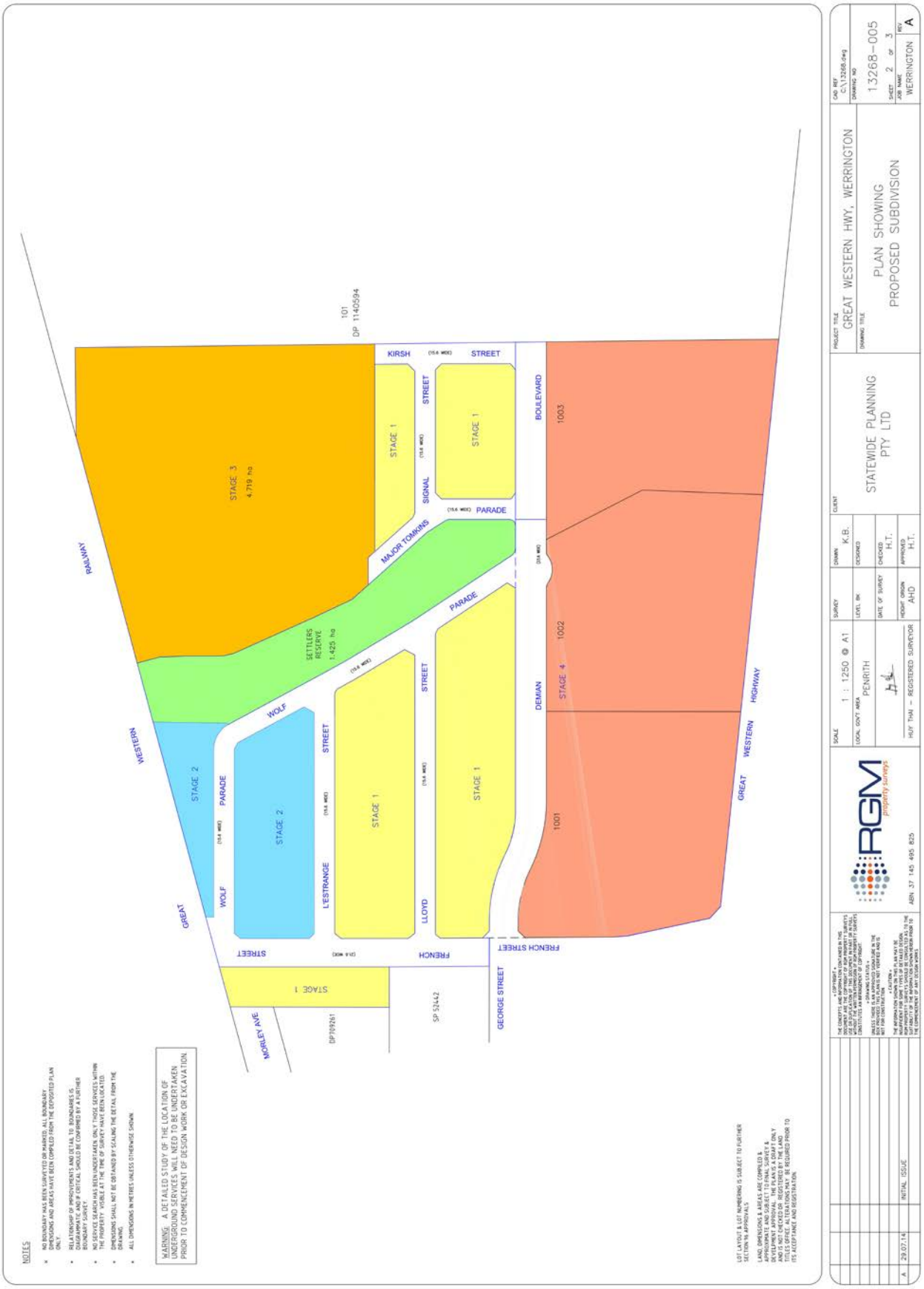
Appendix 10 – Hazardous Materials – Asbestos – SP 335

Exposure of Hazardous Materials (e.g. Asbestos)
Unexpected Finds Protocol to Manage Asbestos if Discovered during Work

Procedure	To ensure a successful outcome to an exposure of hazardous materials emergency, ensuring all persons are evacuated from danger, the material is contained and appropriate resources are available to prevent or minimise personal and/or environmental harm. Instructions on Material Safety Data Sheet MSDS to be followed if applicable
Training	Only a Competent Person should remove or work with Asbestos Containing Material ACM. Perform on site visual inspection
Key Responsibilities	Training — Project Manager / Site Supervisor Reporting — Site Supervisor Response — Project Manager / Site Supervisor
Resources	Disposable gloves, safety boots, safety glasses, disposable coveralls, half face respirator fitted with dust cartridges approved for asbestos (Class P1 or P2) or full face mask where applicable, gum boots and helmet if required Spill kit, including shovel and appropriate barriers Applicable monitors (i.e. air/particle etc.)
Immediate Response	All Workers Personnel
Stay calm Do not Panic	Where materials are of hazardous nature the following is to be implemented: * Advise public to clear the area. Spill area to be delineated to control entry to area and prevent the spread of asbestos contamination. No Person is to enter the isolated area without wearing appropriate Personal Protective Equipment PPE and obtaining permission from the person performing emergency response * Notify Site Supervisor/Workplace Manager * Wet down area and waste to prevent the liberation of asbestos dust to the atmosphere, clean up asbestos spill using shovel and Double bag Asbestos waste to prevent rupture, include any previously ruptured bags due to spill and contaminated PPE * Relevant Authorities to declare area clear and safe * Supervisor to: notify Project Manager immediately and where applicable, notify relevant Authorities, Client and/or Head Contractor
Emergency Services 000 or 112	Where applicable, the Site Supervisor or Project Manager shall contact emergency services stating clearly: * The nature of the emergency and location of the emergency
Completion	Once emergency response activities are completed the emergency response person shall remove and dispose of the contaminated PPE in the asbestos bag and remove all debris The Project Manager shall ensure that the area is remediated and materials disposed in a manner that complies with relevant regulations and any test results obtained
Investigation & Reporting	The Project Manager shall ensure: * incidents causing the emergency is reported and investigated in accordance with Incident/Accident Reporting procedures

Appendix 11 – Plan Showing the entire Subdivision – Master Plan

Stages 1, 2 & 3 completed. This CWMP deals with Stage 4 (134 Lots), refer Appendix 12.



Appendix 12 – Plan of Subdivision – Showing Lots

This CWMP deals with Stage 4 (134 Lots).