



Project Specific Environmental Management Plan

**(Construction Environmental Management Plan
for purpose of Development Consent reference)**

Penshurst Public School, Penshurst

PROJECT No. 6380

Grindley Construction Pty Ltd

55 Grandview Street

PYMBLE NSW 2073

Phone: 02 9988 3811

Fax: 02 9988 3575

Document Control

This plan is a key element of the environmental management system of Grindley.

This plan will be reviewed and updated as required and as a minimum at significant stages of the project where applicable such as commencement on site, completion of earthworks, completion of structure, completion of fit out and or at least six (6) monthly to reflect the changes occurring to the project.

Further information on this plan should be addressed to:

Project Manager
 Rodney Peachey
 02 9988 3811
mail@grindley.com.au

Date of Revision	Details of Changes Made	Revision Number	PM Approved
21/3/19	Project commencement, CC1 Submission	1	RP
12/6/19	Traffic Section Amended	2	RP
1/8/19	Environmental Plans (CEMP Rev. 1 and PSEMP Rev. 2) consolidated	3	RP
2/10/19	Sediment Control Plan Updated	4	RP
10/2/20	Company System and Enquiries and Complaints Management Update	5	RP
17/2/20	Pumping reference removed	6	RP
18/2/20	Stormwater removal process updated	7	RP
5/3/20	Multiple updates requested by DPIE	8	RP
8/9/20	Personnel update	9	RP

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1. INTRODUCTION

1.1 Environmental Policy



Environmental Policy

Grindley Construction was established in 1988 and has built a reputation based on our core value of Commitment. Commitment to being an environmentally and socially responsible organisation while meeting the needs of our clients without hindering future generations.

To achieve this we will:

- Document, implement and maintain an environmental management system
- Maintain and update our environmental management system to incorporate legislative regulative, and any other requirements to which we subscribe that relate to environment to ensure minimum compliance
- Senior management will demonstrate commitment to environmental sustainability
- Set measurable objectives
- Monitor performance
- Provide education and training to facilitate knowledge and experience
- Maintain and improve our environmental management system alongside our integrated management system
- Allocate appropriate resources to implement our objectives
- Strive to achieve greater environmental sustainability where our activities preserve natural resources for future generations

We acknowledge that the organisation operates in an environment where we have a responsibility to all, and are committed to continual improvement of and prevention of pollution.

Our policy documents how we will achieve our commitment to being environmentally and socially responsible. It governs how we manage the environmental impacts of our activities and it will be communicated to all those applicable in our operations. The policy will be reviewed regularly to maintain relevance and appropriateness to our organisation's objectives.

Alan Carstens
Owner

Matthew Macauley
Chief Executive Officer

John Little
Company Secretary

Environmental Policy
Doc.: 812 Version: 2 Date: 18/8/15

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1.2 AS/NZS ISO 14001 Certification



Grindley Construction Pty Ltd

Best Practice Certification Pty Ltd has assessed the above company as complying with the following management system standard requirements at the address shown.

Standard:	ISO 14001:2015 Environmental Management System Requirements	
Scope of Certification:	Commercial, Residential and Industrial construction for private and government clients.	
Head Office Address:	55 Grandview Street, Pymble NSW 2073 Australia	
Initial Certification Date:	28/07/2011	
Issue Date:	Expiry Date:	Certificate Number:
20/08/2019	29/09/2022*	42003586687E

Additional Registered Entities Covered Grindley Interiors Pty Limited
By This Certification:



CERTIFICATION APPROVED:

Kobi Simmat
 Managing Director
 Best Practice Certification Pty Ltd

a Suite 2, Level 2, Building B
 122-126 Old Pittwater Road
 Brookvale NSW 2100
p 1300 402 602
w <https://bestpracticecertification.com.au>



www.jas-anz.org/register

JAS-ANZ



* Subject to regular surveillance audits

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1.3 Project Management Plans

The Project Specific Environmental Management Plan is part of Grindley's integrated management system, the plan is to be read in conjunction with the Project's other documentation and Grindley's Management System.

The overall format and content of this plan has been structured to fully meet the requirements of ISO 14001 Environmental Management Systems.

1.4 Objectives

- Increase amount of waste being recycled, reduce waste costs
- Have an environmental officer on each site
- Comply with all legislation requirements and conditions of the development consent
- Reduce the amount of environmental impact our operations have on the environment
- Individual targets are reviewed and set each year based on our significant impacts and are detailed in impact mitigation plans

1.5 Scope of Works

The demolition, excavation, civil and construction works associated with the Penshurst Public School Upgrade to accommodate up to 1,012 primary school age students. An overview of the works is as follows:

- Site preparation works including demolition of existing buildings on Lots 8 to 11 DP 8173 and the removal of 30 trees
- Site remediation works
- Site consolidation
- Construction of a new four storey building, comprising:
 - indoor and outdoor learning areas
 - administration areas, staff facilities and library
 - multi-purpose hall /canteen/out of school hours building
 - rooftop covered outdoor learning area and student amenities block
- Construction of a new assembly/courtyard space, comprising a multi-purpose outdoor court.
- Construction of an at-grade car park accommodating 20 car parking spaces.
- Site landscaping, including planting of new trees, various shrubs, ground covers, evergreen climbers over rooftop shade structures, screen planting along the northern site boundary, new turf planting to the southern end of the site comprising a mass planted drainage swale.
- Ancillary infrastructure services, including installation of a new substation and installation of a new on-site detention tank, rainwater tank and associated new stormwater connections to Arcadia Street.

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1.6 Reference Documents

The following documents will be referenced for use in this Plan:

Contract Specifications and Drawings
Project DA and consultant reports

1.7 General Applicable Regulatory Requirements

The following are legislative requirements that are applicable to Grindley Construction's business:

- Protection of the Environment Operations Act 1997

This Act covers the scope of issuing licences regarding environmentally hazardous activities, issuing offence notices, establishing environmental protection policies, instituting proceedings, investigating breaches and auditing activities.

- Waste Avoidance and Resource Recovery Act 2001


The objectives of the Waste Avoidance and Resource Recovery Act 2001 are to encourage the most efficient use of resources, to reduce environmental harm, and to provide for the continual reduction in waste generation in line with the principles of ecologically sustainable development (ESD). To meet the objectives of the Act, a resource management hierarchy has been established, comprising; avoiding unnecessary resource consumption; recovering resources (including reuse, reprocessing, recycling and energy recovery); and disposal (as a last resort)

- Environmental Planning and Assessment Act 1979

The objects of this Act is to encourage the proper management, development and conservation of natural and artificial resources, including agricultural land, natural areas, forests, minerals, water, cities, towns and villages for the purpose of promoting the social and economic welfare of the community and a better environment, and to promote ecologically sustainable development

- Environment Protection and Biodiversity Conservation Act 1999

This is the federal Act that protects the environment, particularly matters of National Environmental Significance (Protected matters). It streamlines national environmental assessment and approvals process, protects Australian biodiversity and integrates management of important natural and cultural places.

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- Environmental Hazardous Chemicals Act 1985

The Act sets up the Hazardous Chemicals Advisory Committee. Its functions include advising the EPA in relation to the assessment and control of chemicals that are environmentally hazardous. The EPA may assess chemicals under the Act.

The EPA may declare substances to be chemical wastes for the purposes of the Act. Examples of substances that have been so declared include dioxin contaminated waste materials and PCB (polychlorinated biphenyl) wastes.

- Heritage Act 1977

This Act aims to protect land, buildings, movable objects and other locations and items that are deemed to have State Heritage Significance or Local Heritage Significance.

- Soil Conservation Act 1938


An Act to make provision for the conservation of soil resources and farm water resources and for the mitigation of erosion

- Contaminated Land Management Act 1997

This Act enables the EPA to respond to contamination that is causing a significant risk of harm to human health or the environment and sets out criteria for determining whether such a risk exists.

1.8 Project Specific Applicable Regulatory Requirements

- State Significant Development (SSD) 8365 dated 21st February, 2019

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2. PROJECT PLANNING

2.1 Systems and Procedures

The Project Manager is responsible for the implementation of this Project Specific Environmental Management Plan for the project.

The Project Manager and his nominees shall review weekly the effectiveness of the system and will consider project safety and environmental issues.

Preparation of project programs and monitoring of progress shall be carried out from time to time as required. The Project Manager shall address any changes required by the client or by virtue of latent conditions, safety considerations or environmental considerations and update the program accordingly.

When a non-conformance or incident is detected, it shall be addressed according to Procedure 787 Non-Conformance. When it is necessary to seek concession, the Project Manager shall act according to the requirements of this procedure. The corrective action and improvement to prevent the reoccurrence of non-conformance/incident is also covered in the Procedure 787 Non-Conformance.

2.2 Strategy

Construction of Penshurst Public School, Penshurst will be via a GC21 (Edition 2) Contract and the Project Specific Construction Management Plan (PSCMP).

The Project management team will be responsible for:

- Site establishment
- Temporary fencing of compound to ensure security
- Hoarding off to any existing facilities to ensure resident and staff safety.
- Environmental protection apparatus being correctly installed and or maintained ready for use in case of emergency
- Site inductions, environmental & safety meetings
- Production, review and approval of work method statements and Waste Management plans
- Monitoring adherence to Waste Management plans as per Head Contract
- Monitoring inspection and testing methods and records
- Implementing Project Quality, Environmental and Safety plans
- Monthly reporting of progress

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2.3 Project Designers and Consultants

Contact details for project designers and consultants are established and distributed by the superintendent on initiation of the project. Some of these are displayed on the wall of the site office, as well as filed in the appropriate folder.

PROJECT DISCIPLINES	CONSULTANT COMPANY & NAME
Council	Georges River Council
Client	Schools Infrastructure NSW, Pete Krause
Client Superintendent	Root Partnerships, David Wood
Project Architect	Perumal Pedavoli Architects, Katherine Longhurst
Head Contractor	Grindley Construction, Rodney Peachey
Arborist	Glenyss Laws
Quantity Surveyor	WT Partnership, Paul Fung
Landscape Architect	Lorna Harrison, Lorna Harrison
BCA Certifier	Group DLA, Nick Aitchison

2.4 Inspections

The importance that Grindley places on the environmental aspect of its business is shown by the constant inspection program it puts its sites through. Environmental inspections will occur at least once a week on every site.

Weekly and after intense or prolonged inclement weather site inspections are conducted by Site Management using Procore Inspection Environmental Inspection, monthly Project inspections are conducted by the WHSEQ Manager using Procore Inspection WHSEQ Monthly Project Inspection.


2.5 Internal Audit Schedule

Internal audits will be conducted on all project activities as well as company nominated activities to provide a further review process for the effective management of this project and the management systems generally. The following project elements will be audited at the times indicated which is outlined in the audit schedule (form 506):

- Project Safety Plan – (six (6) monthly)
- Project Quality Plan – (six (6) monthly)
- Project Environmental Plan – (six (6) monthly)

Reports of all audits conducted on the project shall be distributed to the following:

- Grindley Construction - Construction Manager
- Grindley Construction - Project Manager

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- Grindley Construction - Site Manager
- Grindley Construction Management Review Meeting

2.6 Neighbour Notification

Managing Neighbour interfaces with the construction process is an important part of the process of environment interaction. The following processes will be undertaken by Grindley to inform neighbours of the work as well as provide a contact point:

- Site Sign will be erected giving contact details of the site manager to be contacted for any concerns/queries regarding the construction works
- Letters will be issued to all immediate neighbours also with Grindley contact details as well as an indicative start and duration of construction activities (If required).

2.7 Construction Hours

Site Operation Hours:

Monday – Friday 07:00 – 18:00

Saturday 08:00 – 13:00

2.8 Enquiries and Complaints Management

All enquiries and complaints are to be managed by Schools Infrastructure NSW (SINSW).

Any enquiry or complaint received by Grindley will be forwarded onto SINSW as soon as practical as directed by SINSW.

SINSW have provided Grindley with SINSW Communications Teams business cards, and Grindley have been directed to issue this card as the point of contact to anyone who raises a complaint.

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3. MANAGEMENT RESPONSIBILITIES

3.1 Position Descriptions

Construction Manager – Evan Graves

Responsibilities and Authorities

- Overall control of system compliance
- Review of system administrations

Project Manager – Rodney Peachey (Reports to Construction Director)

Responsibilities and Authorities

- Control of system compliance
- Supervision of head office process control
- Oversee site process control
- Internal monthly reporting
- Sub-contract administration and payment
- Review all incident/non-conformance records, accident & incident reports and audit reports
- Authorise subcontract tendering and subcontract procedures, and establish an administrative system to monitor the subcontracts and the payment of subcontractors in relation to their environmental responsibilities

Contracts Administrator – Mitchell Thorburn (Reports to Project Manager)


Responsibilities and Authorities

- Ensure that all dockets required by EPA guidelines for waste and spoil removal are present before invoices are processed
- Ensure that waste removal contractors provide monthly reports of waste removed from sites.

Site Manager – Steve McInerney (Reports to Project Manager)

Responsibilities and Authorities

- Implement and ensure adherence to Project Plan and all associated sub-plans

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- Implement all environmental plans and procedures as required
- Co-ordination of all on site activities including trade interface
- Organisation of all deliveries and managing materials handling
- Establish and maintain site environmental measures
- Review all Subcontractor Management Plans and waste management plans submitted and obtain approval from Project Manager before allowing work to commence on site
- Implementation of all inspection and testing requirements
- Liaison and co-ordination with testing and inspection authorities
- Preparation of check sheets and supervision of remedial works
- Liaise with Project Manager to co-ordinate the works and resources required

Site Environment Officer – Steve McInerney
(Reports to Site Manager)


Responsibilities and Authorities

- Ensure compliance with environmental plans and regulations
- Isolate and report any environmental spills/events to site manager and Environmental Manager
- Conduct weekly site inspections
- Conduct inspections after intense or prolonged inclement weather
- Ensure all environmental protection equipment is in place
- Advise the Site Manager / Foreman on areas of concern
- Quarantine unsafe work areas, materials, plant and equipment
- Identify and report potential environmental impacts and risks
- Assume the role of company Representative for the Environment on site

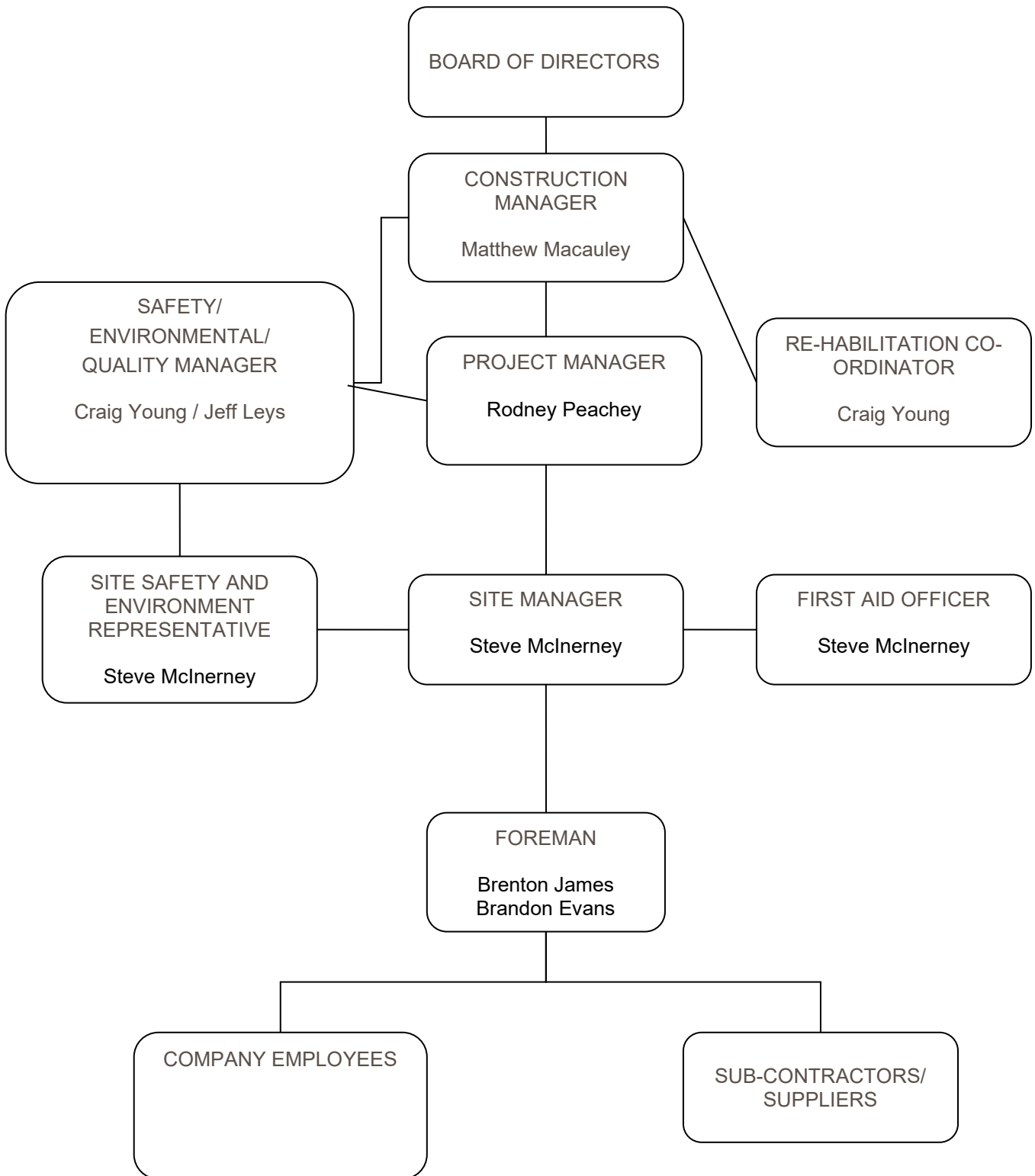
Subcontractors

Responsibilities

- Ensure compliance with environmental plans and regulations
- Ensure all required paperwork is presented on submission of progress claims

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3.2 Project Organisational Chart



4. SITE EMERGENCY RESPONSE PLANS

4.1 Emergency Response Plan

In the event of any emergency the Site Manager must be contacted to ensure the appropriate action is taken.

POTENTIAL EMERGENCY	WHAT TO DO?	RELEVANT AUTHORITIES & PERSONS
Injury caused by: <ul style="list-style-type: none"> • Fire • Explosion • Machinery accidents • Minor injuries 	<ul style="list-style-type: none"> • For serious injuries call an ambulance. You should also have the contact details of the nearest doctor, Medical Centre and Hospital. • Immediately inform the site First Aid Officer. • Follow the procedures as detailed in the Site Safety plan. • For major injuries contact the Site Manager or Project Manager 	<ul style="list-style-type: none"> • Emergency Services • Nearest Doctor • Medical Centre • Site Manager • Project Manager
Fire <ul style="list-style-type: none"> • Fire at the diesel tank • Fire at any of the machineries • Fire caused by vandalism 	Evacuate all personnel to a safe area immediately. <ul style="list-style-type: none"> • Call the Fire Brigade (Emergency Services). • If the fire is likely to damage neighboring property inform the adjacent residents. • Follow the procedures as detailed in the Site Safety plan. • For major fire emergencies, contact the Site Manager or Project Manager 	<ul style="list-style-type: none"> • Emergency Services • Site Manager • Project Manager • Adjacent residents
Explosion (e.g. rupture in a gas line)	<ul style="list-style-type: none"> • Evacuate all personnel to a safe area immediately. • Call the Emergency Services immediately. • Contact the neighbouring residents. • If service related, call the relevant service provider (e.g. AGL) • Follow the procedures as detailed in the Site Safety Plan • Contact the Site Manager or Project Manager 	<ul style="list-style-type: none"> • Emergency Services • AGL • Site Manager • Project Manager • Adjacent residents
Spills <ul style="list-style-type: none"> • Major spill when filling the diesel tank • Major spill from the diesel tank stored on-site • Spill or release of other hazardous chemicals of material 	<ul style="list-style-type: none"> • For major spills, immediately call the Fire Brigade. • Identify the source of the spill. • Refer to the Material Safety Data Sheet (MSDS) and quickly evaluate the hazards of the material. • If the material is dangerous, evacuate the site immediately and notify the neighbours. • If it is safe, stop the source of the spill immediately. • Contain the spill and control its flow. • Block storm water drains downstream of the spill. • EPA and local council must be notified about any spills that are likely to threaten the environment. 	<ul style="list-style-type: none"> • Emergency Services (fire brigade) • DEC • Council Officer • Site Manager • Project Manager • DNR

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	<ul style="list-style-type: none"> • If the spill is likely to impact on the catchments, contact Department of Natural Resources (DNR) immediately. • Clean up small spills promptly to prevent run-off into the storm water system. • Contact the Site Manager or Project Manager 	
Heavy rainstorm and flood – beyond the capacity of the sediment and erosion controls on-site. Or, failure of the sedimentation control measures.	<ul style="list-style-type: none"> • Contain/minimise the flow. • Contact Council immediately. • Investigate reasons for failure and prepare an incident report including details of five-day rainfall figures. • Contact the Project Manager 	<ul style="list-style-type: none"> • Council • Site Manager • Project Manager
Discovery of items of conservation value (e.g. flora & fauna, heritage)	<ul style="list-style-type: none"> • Fence off the area as “no go” zone and contact the Site Manager or Project manager immediately for further action. 	<ul style="list-style-type: none"> • Site Manager • Project Manager
Discovery of contaminated material on-site (e.g. underground fuel storage tanks)	<ul style="list-style-type: none"> • Fence off the area as “no go” zone and contact the Site Manager or Project manager immediately for further action. 	<ul style="list-style-type: none"> • Site Manager • Project Manager
Rupture of Authority pipelines (water pipes, sewerage pipes)	<ul style="list-style-type: none"> • Contain/minimise the flow • Ensure all spilled materials are contained on site or if running off site are directed through sediment control measures • Block storm water drains downstream of the spill. • Contact relevant authority as soon as possible • EPA and local council must be notified about any spills that are likely to threaten the environment. • If the spill is likely to impact on the catchments, contact Department of Natural Resources (DNR) immediately. 	<ul style="list-style-type: none"> • Relevant Authority • DEC • Council Officer • Site Manager • Project Manager • DNR
Waste contractor not submitting waste docket and illegally disposing of waste in an unauthorized facility	<ul style="list-style-type: none"> • Immediate contact with contractor to establish reasons • Hold all payments to contractor • Request waste docket for approved facility • Notify local council where waste is being deposited (section 148 POEO Act 1997) 	<ul style="list-style-type: none"> • Site Manager • Project Manager • Environment Manager • Council Officer

4.2 Emergency Contacts

Name	Contact Details
Emergency services including Fire Brigade, Ambulance and Police	000
Nearest Medical Centre	Ashby Medical Centre Business Hours +61 2 9579 6777 After Hours +61 2 8724 6300
Nearest Hospital	St George Hospital +61 2 9113 1111
NSW EPA	Pollution Line Tel: 131 555
Local Council	Georges River Council
Site Manager (24 hour contact)	Steve McInerney +61 416 019 427
Project Manager	Rodney Peachey +61 458 099 494
Construction Manager	Evan Graves +61 2 9988 3811
Ausgrid	13 13 88
Jemena Gas Network (NSW)	13 19 09
Sydney Water	13 20 90
Waste Disposal	TBA

4.3 Incident and Non-conformance procedure

In the case of an environmental incident flowchart 757 – Environmental Emergency Response must be followed and all aspects of the incident addressed and entered to the relevant logs for appropriate review.

4.4 Environmental Impact Issues

4.4.1 Air Quality and Dust Management

Air quality and dust management is the responsibility of the site manager. As per Impact Mitigation Plan 006 (IMP006) dust minimisation techniques are to be employed as needed during construction, including the use of water carts as necessary. Air quality is to be managed through the proper maintenance of all machinery on site as per Plant and Equipment Inspection Checklist (Form 161). Any incidents where poor air quality becomes an issue is to be assessed on a case by case basis and managed according to all relevant legislation.

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4.4.2 Contaminated water and soil

Refer 6.1 Unexpected Contamination Finds Protocol

4.4.3 Cultural Heritage

Refer 6.2 Unexpected Aboriginal and Non-Aboriginal Heritage Finds Protocol

4.4.4 Flora and Fauna

Flora and Fauna on the site will be managed through the recommendations of the Flora and Fauna conditions detailed in the DA approval and any subsequent conditions will be complied with as detailed.

4.4.5 Noise

Noise impacts from construction are an ongoing concern for all construction projects. Construction noise management will be in accordance with the Acoustic Assessment Report (Construction Noise and Vibration Management Sub-Plan for the purpose of Development Consent reference) Sections 9.0, 10.0 and 11.0 (refer Appendix B) and will be the responsibility of the Site Manager to enforce.

4.4.6 Traffic


Traffic management will be in accordance with the Construction Traffic Management Plan (Construction Traffic and Pedestrian Management Sub-Plan for purpose of Development Consent reference) (refer Appendix A) and will be the responsibility of the Site Manager to enforce.

The effectiveness of the TMP control measures will be monitored regularly, in particular the Environmental Inspection conducted weekly will formally prompt the inspection of the effectiveness of the control measures in addition to the informal observations made by Site Management in their day to day operations.

4.4.7 Waste Management

Waste Management will be in accordance with the Waste Management Plan (Construction Waste Management Sub-Plan for purpose of Development Consent reference) (refer Appendix C) and Impact Mitigation Plan 004 (IMP004). A waste management plan will be developed in conjunction with the selected waste contractor for the project and will be audited at random intervals throughout the course of the project.

All waste is to be classified in accordance with the Protection of the Environment Operations Act and all material to remain on site is to be validated in accordance with the Remediation Action Plan.

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Waste Management Plan

Type	Estimated Volume (m ³)	Recycled		Landfill	
		Estimated Volume (m ³)	Disposal Location	Estimated Volume (m ³)	Disposal Location
Green Waste	80	80	Plateau Trees		
Bricks	1500	1500	Concrete Recyclers		
Concrete	1500	1500	Concrete Recyclers		
Timber	250			250	Genesis
Plasterboard	250			250	Genesis
Metals	200	200	One Steel		
Asbestos	30			30	Genesis
Roof Tiles	100	100	Concrete Recyclers		
Carpet	100			100	Genesis
Total	4010	3380		630	

4.4.8 External Lighting

External lighting if any is to comply with AS 4282 Control of the obtrusive effects of outdoor lighting.

5. SEDIMENT AND EROSION CONTROL

This section identifies sediment control systems to be implemented on the project. The sediment control systems are designed to minimise erosion on-site and retain sediment eroded by water and wind.

Sediment and erosion control will be in accordance with the Stormwater Management Report (Construction Soil and Water Management Sub-Plan for purpose of Development Consent reference) and Sediment and Erosion Control Plan and Details Series Number CW2 Revision C (refer Appendix D). These documents have been prepared in accordance with Landcom’s guide on Managing Urban Stormwater (the “Blue Book”)

The erosion and sediment control measures described will be installed during site preparation works along with the site fences and sheds. These devices will be in place throughout all construction phases, especially excavation.


Weather forecasts will be monitored and where significant inclement weather is identified, Site Management will review the current status of the sediment and erosion control measures and where applicable action any observations.

Review of such control measures will include but are not limited to:

- Bins/areas used for concrete and mortar slurries, paints, acid washing, lightweight waste materials and litter are clean, tidy and reflect a status that will not allow for the weather to dislodge such waste
- Drains, diversion banks, table drains, berm drains, drop-down structures, sediment fences and alike are clean, free from obstructions that would prevent the removal of stormwater and operating as intended
- Material stockpiles are protected and placed in a manner to prevent erosion of materials entering the stormwater system
- Vegetative growth is maintained to ensure water flow is not impeded
- Unsealed roads and other exposed surfaces control measures are adequate
- Sediment detention system is in good working condition
 - Water is still being diverted towards the system
 - Degradable products such as straw bales are in acceptable condition
 - Sediment is at an acceptable level
- Controls measures are adequate to handle the forecasted inclement weather

Following periods of significant inclement weather Site Management will conduct an Environmental Inspection, as described in 2.4 Inspections.

In the event of stormwater needing to be removed from site, stormwater will be removed and disposed of via a dewatering subcontractor.

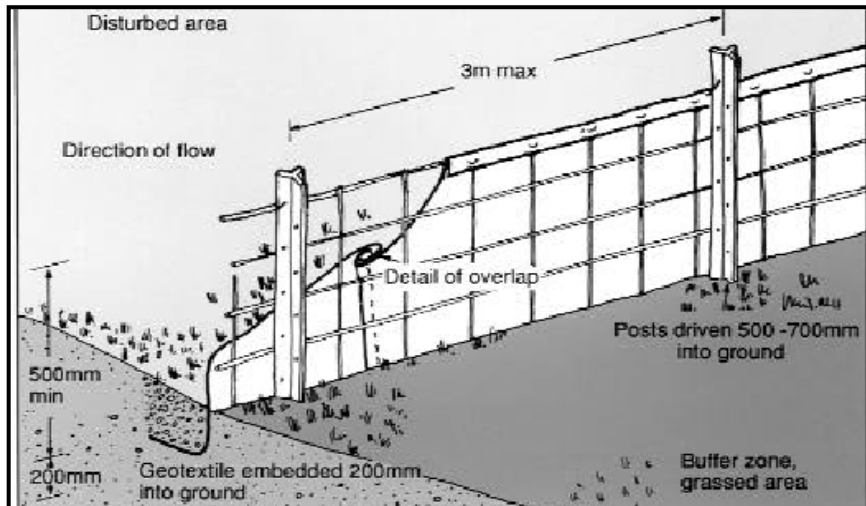
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5.1 Sediment and Erosion Control Devices

Unnecessary disturbance of the site shall not occur and all cuts are to be stabilised as soon as possible after the completion of site earthworks. Extra care will be taken to prevent sediment run off into all neighbouring lots and stormwater. Any collected silt will be disposed of in accordance with all other relevant codes and standards.

5.1.1 Silt Fences

Silt fences are to be installed to all site boundaries. Geotextile fabric will be fixed to the temporary construction fencing to the 'downhill' boundaries of the site. The fabric will be turned down under the existing ground line and secured at regular intervals not exceeding 3m in accordance with the following diagram.




5.1.2 Vehicle Access

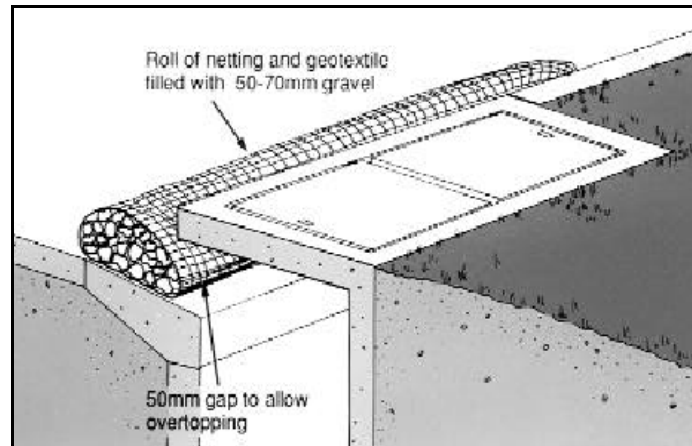
Vehicular access will be controlled to prevent sediment being tracked. This will be done by maintaining an all weather access/driveway composed of an approved course aggregate surface. Also if the need arises a shaker grid will be installed to the main access by Grindley Construction during the construction works. Any sediment that is tracked onto the surrounding roads will be cleaned off in a timely manner.

5.1.3 Stormwater Inlets

All stormwater inlets are to be covered with geotextile fabric in a roll or other format to ensure that no sediment enters into the stormwater system. This will be the responsibility of the Site Manager to enforce. The rolls will not only be placed directly at the inlets as shown below, they will also be placed at regular intervals in the gutters 'upstream' from the inlets creating multiple barriers.

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5.1.4 Stockpiles

If appropriate topsoil is to be stockpiled on site then the following measures will be put in place. If stockpiling is required, stockpiles shall be stored at least 2 meters clear of drainage lines, natural watercourse and established trees.

Stockpiles will have temporary silt fences in place around the stockpiles to create an enclosure and if necessary they will be covered with shade cloth or tarpaulin to retain the materials on the stock pile. The location of stock piles will be determined on site.

5.1.5 Waste Enclosures

Dedicated building waste enclosures will be set up around the site to enclose building waste where required. No waste enclosures will be set up outside of the site boundary.

5.1.6 Dust Control

The shade cloth to the boundary fences will be maintained throughout all stage of construction to assist in dust control. Also if the need arises due to excessive dust being created, the site will be watered down by a water truck where possible, and/or sprinklers and hoses. Also all stockpiled soils will be covered during periods of high wind to reduce the dust created from on site storage.

5.1.7 Monitoring

In order to maintain the various erosion and sediment control devices, regular inspections, repairs and cleaning will be carried out on the silt fences to the boundaries, stockpiles, waste enclosures, and to the stockpile covers.

Inspections of the site erosion and sediment control devices will be carried out in accordance with section 2.4 of this Management Plan.

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6. UNEXPECTED FINDS PROTOCOL

6.1 Unexpected Contamination Finds Protocol


In the event of any unexpected contamination being encountered, all work in the immediate area is to cease and the following is to occur:

- Area to be secured to prevent disturbance
- Pending the type of contamination, an appropriately qualified environmental consultant is to be contacted to attend site and assess the extent of remediation if any that may be required
- If remediation is required, upon completion of, appropriate validation is to be confirmed, once received works can recommence

6.2 Unexpected Aboriginal and Non-Aboriginal Heritage Finds Protocol


In the event of any unexpected heritage related Aboriginal or Non-Aboriginal items being encountered, all work in the immediate area is to cease and the following is to occur:

- Area to be secured to prevent disturbance
- Pending the type of items being encountered the following is to occur:
 - Aboriginal Heritage
 - An appropriately qualified archaeologist and the registered Aboriginal representatives is to be contacted to attend site to determine the significance of the objects
 - Consultation with the archaeologist, Aboriginal representatives and the Environment Energy and Science (EES) to develop and implement management strategies
 - Written approval from EES is to be received, once received works can recommence
 - Non-Aboriginal Heritage
 - Contact EES Heritage division
 - Written approval from EES is to be received, once received works can recommence

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APPENDIX A – Construction Traffic and Pedestrian Management Sub-Plan

Traffic Assessment
Prepared by TTM
Rev 13
Refer Section 7

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APPENDIX B – Construction Noise and Vibration Management Sub-Plan

Acoustic Assessment Report
Prepared by Day Design
Report No. 6320-1.1R Rev C
Refer Sections 9.0, 10.0 and 11.0

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APPENDIX C – Construction Waste Management Sub-Plan


Waste Management Plan
Prepared by Root Partnerships
Rev 3
Refer Section 4

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APPENDIX D – Construction Soil and Water Management Sub-Plan

Stormwater Management Report
Prepared by Woolacotts
Rev C
Refer Section 6

Erosion and Sediment Control Plan
Prepared by Woolacotts
Series Number SW2 Rev C

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