

## Construction Environmental Management & Sustainability Plan (CEMP)

MONARO SCHOOLS CLUSTER – NEW HIGH SCHOOL AT JERRABOMBERRA - REV.14

Construction Development Retirement Capital



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## 1.Document Control – Revision History

#### 1.1 REVISION STATUS

Approved revisions to this document may be independently issued.

Date Issued	Revision	Details	Section	Page	Approval
14/07/22	Rev 8 - NV	Final – formatting and conditions table	All	All	
19/07/22	Rev 9 NV	Final – formatting and conditions table	All	All	
20/07/22	Rev 10 NV	Final	All	All	
01/08/22	Rev 11 NV	Final amended	All	All	
04/08/22	Rev 12 NV	Final amended & internal review	All	All	
05/08/22	Rev 13 NV	Final amended – TSA and SINSW comments inc	All	All	OP_
12/08/22	Rev 14 NV	Final with QPRC comments	All	All	David Last HCA Construction Manager on behalf of Project Manager: Dennis Van

#### 1.2 SSD CONDITION SATISFACTION TABLE

Condition	Condition Requirement	Document / Sub- Plan Reference			
B12	Management plans required under this consent must be prepared having regard to the relevant guidelines, including but not limited to the Environmental Management Plan Guideline: Guideline for Infrastructure Projects (DPIE April 2020).	Appendix I Page 47			
	Notes:  • The Environmental Management Plan Guideline is available on the Planning Portal at: https://www.planningportal.nsw.gov.au/major-projects/assessment/post-approval • The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.				
B13	Construction Environmental Management Plan  Prior to the commencement of construction, the Applicant must submit a Construction  Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary for information. The CEMP must include, but not be limited to, the following:				
	(a) Details of:     (i) hours of work;     (ii) 24-hour contact details of site manager;     (iii) management of dust and odour to protect the amenity of the neighbourhood;     (iv) external lighting in compliance with AS 4282-2019     Control of the obtrusive effects of outdoor lighting;     (v) community consultation and complaints handling as set out in the Community Communication Strategy required by condition B9;	i) – Section 3.2 Page 11 ii) – Section 3.3 Page 11 iii) – Section 16.8 page 31 iv) – Section 16.10 page 31 v) – Section 10.3 page 19-21			
	(b) an unexpected finds protocol for contamination and associated communications procedure to ensure that potentially contaminated material is appropriately managed;	Section 16.6 page 30			
	(c) an unexpected asbestos finds protocol and associated communications procedure prepared in accordance with the recommendations of the Report on Limited Contamination Assessment (Document No. R.002.Rev3), prepared by Douglas Partners and dated 16 September 2021 to ensure that any asbestos or suspected asbestos material is appropriately managed (this must include fencing off and assessment of any suspected asbestos material found by an NSW licensed asbestos assessor);	Section 16.7 Page 30-31			

	(d)	an unexpected finds protocol for Aboriginal and non- Aboriginal heritage and associated communications procedure;	Section 16.7 Page 30-31		
	(e)	the Poplars EPBC Act Construction Environmental Management Plan (EPBC No. 2020/8801), prepared by Indesco and dated 17 October 2021;	Appendix J Page 48		
	(f)	the construction phase mitigation measures detailed in the Aviation Wildlife Hazard Assessment, prepared by Alison Rowell and dated February 2022;	Appendix K Page 49 Section 6 Page 13		
	(g)	Construction Traffic and Pedestrian Management Sub-Plan (see condition B14);	Appendix E Page 42		
	(h)	Construction Noise and Vibration Management Sub-Plan (see condition B14);	Appendix J Page 46		
	(i)	Construction Waste Management Sub-Plan (see condition B16);	Appendix I Page 45		
	(j)	Construction Soil and Water Management Sub-Plan (see condition B17); and	Appendix B Page 37-39 of CEMP		
	(k)	Construction Flood Emergency Management Plan (see condition B18).	Appendix K Page 43		
B19	the A	iver Code of Conduct must be prepared and communicated by Applicant to heavy vehicle drivers and must address the wing:	-		
	(a)	minimise the impacts of earthworks and construction on the local and regional road network;	Section 11.2a Page 22		
	(b)	minimise conflicts with other road users;	Section 11.2b Page 22		
	(c)	minimise road traffic noise; and	Section 11.2c Page 22		
	(d)	ensure truck drivers use specified routes.	Section 11.2d Page 22		
B20	Cons	truction Parking	Section 11.3		
		to the commencement of construction, the Applicant must	Page 23		
		ide sufficient parking facilities on-site, including for heavy			
		cles and for site personnel, to ensure that construction traffic			
		ciated with the development does not utilise public and			
	residential streets or public parking facilities.				
B21	Floo	d Emergency Management – Construction Phase	Appendix F		
		to the commencement of construction, the Applicant must are and implement for the duration of construction:	Page 43 Section 34 Page 10-18		
			( sub-plan)		

(a)	flood warning and notification procedures for construction workers on site;	Appendix F Page 43 Section 3.2 – 3.2.2 page 10, Section 3.7 Page 16 – 17 ( sub-plan)
(b)	appropriate management of materials on site; and	Appendix F Page 43 Section 3.3.1 Page 11 ( sub-plan)
(c)	evacuation and refuge protocols.	Appendix F Page 43 Section 3.5 & 3.6 Page 15 &16( subplan)

#### 1.3 PROJECT SPECIFICS

Company Name:	Hindmarsh Construction Australia Pty Ltd		
ABN:	15 126 578 176		
Project:	Monaro Schools Cluster – New High School at Jerrabomberra		
Project No:	2040		
Location:	Jerrabomberra High school 300 Lanyon Drive Jerrabomberra NSW 2619		
Client:	Department of Education - SINSW		
Contract:	GC 21 (Edition 2) with amendments - Contract number SINSW 01204-20		
Work Description New High School built in two stages. First stage to accommodate 500 students. Comprising 25 Hall, Admin, Library, Carparks and outdoor areas			

#### 1.4 APPROVAL FOR IMPLEMENTATION

This revision of the Environmental Management and Sustainability Plan (CEMP) has been reviewed by the Project Manager, it complies with environmental aspects of Compass and contractual obligations and is authorised for use.

#### 1.5 EMP INDUCTION

Every Project Hindmarsh employee receives induction training into the purpose and use of this EMP. Each acknowledges that they fully understand this EMP's requirements and their roles \ responsibilities associated with it. This acknowledgement is recorded via Aconex.

Key elements of this EMP may be extracted for inclusion in the project specific site induction training which is given to all employees, subcontractors and site workers prior to commencing works on site.

## 2. Purpose and Scope of EMP

Hindmarsh operates a fully integrated Business Management System, known as Compass which incorporates our Safety, Quality and Environment business systems.

This EMP describes the environmental strategy, methods, controls, and requirements to be implemented during the execution of the project. The purpose of this EMP is to:

- Ensure company environmental objectives and targets are achieved
- Identify the environmental issues (impacts and aspects) for this project;
- Establish, communicate and implement controls to reduce any adverse impacts on the environment which may arise from project's activities, products and services;
- Identify controls which will be implemented to mitigate high risk environmental impacts, which may eventuate during construction.
- Ensure Hindmarsh, its suppliers and subcontractors comply with all relevant environmental legislation, any applicable licenses, approvals, permits and regulatory requirements;
- Ensure works are managed to reduce adverse impacts on the environment;
- Action any outcomes from environmental incidents or accidents, project audits or other identified non-conformances and to continually improve the Environmental Management System elements within Compass; and
- Establish project-specific objectives and targets (where appropriate), and identify strategies and evidence in support of their achievements.

This EMP is intended to stand alone as the master document for the management of all site environmental activities. It should, however, be read in conjunction with other management plans, referenced appendices and documents, including;

- Project Management Plan (PMP)
- Emergency Management Plan (EMMP)
- Safety Management Plan (SMP)
- Temporary Traffic Management Plan (TTMP)
- Quality Management Plan (QMP)

#### 2.1 SUSTAINABILITY

Responsible Environmental Management extends far beyond that of simple mitigation measures. Sustainability embraces environmental, social and economic accountability. Hindmarsh seeks, with its project partners, to reduce those negative impacts and maximise benefits related to all three areas across the entire project life cycle. Fundamentally, our environmental strategy and EMP requires every project to consider:

- A reduced resource consumption
- reuse of resources
- use and support of recyclable resources
- · protection of the natural environment
- elimination of toxic substance \ material use
- focus on quality

#### 2.2 ENVIRONMENTAL MANAGEMENT SYSTEM

Hindmarsh operates an Environmental Management System as per the requirements of AS14001:2004 and the NSW Government Environmental Management System Guidelines Edition 2. The system has been independently certified as meeting the requirements of both. Please refer to the *Compass Manual* for further information regarding the Hindmarsh Management System.

#### 2.3 REFERENCED PROCEDURES AND DOCUMENTS

Documents, procedures, and forms supporting this EMP have been referenced accordingly throughout this plan. Please refer to the *Environmental Management and Sustainability Process Map* for instruction and guidance information relating to these documents. Compass documents detailed within this plan are identifiable by title and are formatted in *italics and underlined.* 

#### 2.3.1 Client \ Project Specific Documents

The following project specific environmental \ sustainability related documents have been referred to in the preparation of this EMP:

 Poplars EBC Act Construction Environmental Management Plan EPBC no. 2020/8801 dated October 2021

## 3. Project Information

#### 3.1 DESCRIPTION (SCOPE)

Please refer the Hindmarsh Project Management Plan document, specific to this project, for the full detailed project description information. The new high school in Jerrabomberra will accommodate 500 students and the key components include:

- General Learning Spaces, Wood/metal workshop, Science labs & Visual Arts workshop, Admin facilities & Library – Block A&B
- Multi-purpose Hall & change facilities Block C,
- Amenities Block D
- Basketball court
- External outdoor area
- Carpark

The project will commence construction in August of 2022 with a projected completion date in September of 2023.

- Milestone 1 Site possession HCA (08/08/22)
- Milestone 2 Structure completion (09/03/23)
- Milestone 3 Fitout completion (26/07/23)
- Milestone 4 External works completion (28/09/23)

#### 3.2 HOURS OF OPERATION

Site operating hours for construction activities will be in accordance with the development approval determination, except as agreed with the client and authorities for out of hours work, will be restricted as follows:

- between 7:00 am and 6 pm, Mondays to Fridays inclusive;
- between 8:00 am and 1 pm, Saturdays;
- No work on Sundays and public holidays.

Out of hours work as agreed with the client and authorities will only be undertaken:

- Provided noise level do not exceed existing background noise level plus 5dB, works may also be undertaken between 6pm-7pm Monday - Friday, and between 1pm and 4pm Saturdays in line with condition C3, 4 & 5 of the consent.
- To facilitate deliveries that cannot be easily delivered within normal hours
- Road and other works that require street closures or out of hours services cutovers
- Provided 7 days notice to project and community stakeholders to be affected by the works.

HCA acknowledge our program includes for Restricted or Prohibited working days in each calendar year:

#### 3.3 24HR EMERGENCY CONTACT (HCA)

Senior Site Manager - Nick Valois 0421 286 395

Site Supervisor - Peter Maselos 0410 646 124

Project Engineer - Luis Martinez 0424 140 974

# 4.Environmental and Sustainability Strategy, Policy, Objectives and Targets

#### **4.1 STRATEGY**

This EMP is implemented in support of the Hindmarsh <u>Environmental and Sustainability</u> <u>Strategic Framework</u>, this strategy is to be communicated and made available to all workers at all times.

#### **4.2 POLICY**

The Hindmarsh Environmental and Sustainability Policy and the PPE Policy are to be communicated and made available to all workers at all times. At time of site induction workers are briefed on the Policy and its intent. A PPE Requirements document is also available.

#### 4.3 COMPANY OBJECTIVES AND TARGETS

Current company environmental and sustainability objectives and targets are detailed within the *Environmental and Sustainability Strategic Framework*.

Hindmarsh objectives and targets established at company and project level are managed and maintained in accordance with <u>Company & Project Objectives & Targets – Maintenance, Management & Monitor</u> procedure.

#### 4.4 PROJECT OBJECTIVES AND TARGETS

The ESD initiatives of the proposed development will be verified through a Green Star Design & As-Built v1.3 formal certification, with the development targeting a 4 Star rating.

Below is a summary of the initiatives to meet this target:

- Good management adopted from design phase, construction and through to building operation.
- Healthy indoor environmental quality.
- Minimise energy consumption through good passive design and maximise energy efficiency of systems.
- Sustainable transport systems.
- · Effective water management.
- · Construction materials selection.
- Limiting impact of land use on ecology and biodiversity.
- · Reductions in emissions.
- Incorporating innovative technologies.

## 5. Resource Management

General information detailing overall resource management is detailed within the current Project Management Plan (PMP) for this project, Section: Resource Management. The following sections provide details regarding environmental and sustainability specific considerations related to resource management.

#### 5.1 RESPONSIBILITY AND AUTHORITY

It is the responsibility of Hindmarsh project staff to ensure that the Environmental Management Plan (EMP) is complied with, and objectives and targets are met. To facilitate effective environmental management, specific responsibilities for implementing and supporting this EMP have been assigned.

Please refer to the Appendix C (page 40) - *Roles and Responsibility Matrix*, for the project specific allocations.

#### 5.2 ENVIRONMENTAL TRAINING REQUIREMENTS

Hindmarsh\* ensures specific environmental and sustainability training requirements are identified in consultation with each project team member. This is completed as per the

<u>Training and Development Procedure – Project.</u> any training needs identified are captured via the <u>Training ID \ Requirements Register.</u>

The following additional forms shall be used as appropriate:

- Training Approval Form
- Training Evaluation Form

Hindmarsh employees provide evidence of training completion to the Human Resource Department (only required for nominated courses \ competencies), such evidence may also be filed electronically or via hardcopy on site for reference purposes. Environmental training requirements are continually revisited throughout the life of the project, particularly where there has been a change in project resources, where a skill gap has been identified, or as required by the Project Manager (PM).

Refer to the <u>Learning and Development Overview</u> document for further information regarding the relationship between company and project training processes.

#### 5.2.1 Unforeseen Training Requirements

Where unforeseen training requirements have been identified by either: Risk Assessment, Training Review or other means, arrangements will be made to ensure the employee involved is appropriately trained. Any such training need identified is captured via the *Training ID \ Requirements Register*.

### 6.Compliance

#### 6.1 LEGISLATIVE \ REGULATORY

The Legal Register is a list of relevant legislative and regulatory requirements applicable to general Hindmarsh construction operations. The project team has reviewed this document and has identified relevant legislative and regulatory requirements applicable to project specific operations. The project specific Legal Register is available upon request and has been completed as per the *Legal Requirements* procedure.

Legislative and or regulatory information may also be included in relevant <u>Environmental Impact Guides (EIGs)</u> and in the site-specific induction training provided to all employees and site workers prior to their commencement of works on site.

## 6.2 MONITORING \ CHANGES TO: ACTS, REGULATIONS, CODE OF PRACTICE AND AUSTRALIAN STANDARDS (SUBSCRIPTION)

Hindmarsh is notified of SQE legislative and regulatory change via a subscription service called LAWLEX - <a href="http://www.lawlex.com.au">http://www.lawlex.com.au</a> Where relative legislative change is to occur the National SQE Manager informs State SQE Manager who are then required to review changes and forward recommendations (this may be Document Change Request, email, hardcopy or other) to the SQE Systems Manager for Hindmarsh Management System (Compass) coordination.

For more detailed information please refer to <u>Legal Requirements</u> procedure.

## 6.3 ACCESS TO AND COMMUNICATION OF LEGAL REQUIREMENTS / AUSTRALIAN STANDARDS

Hindmarsh employees, suppliers and subcontractors have access to legislation and regulatory documents via the internet. Where a project receives a request for an applicable legislative \ regulatory document which is not available via the internet, then the request is to be forwarded to one of the following who will arrange for a copy of the required document to be made available to the requestor.

- National SQE Manager
- State SQE Manager

#### 6.3.1 Australian Standards

Hindmarsh subscribes to "Building and Construction" related Australian Standards. Refer to the <u>Australian Standards Online Select Access</u> document for further information regarding access instructions and credentials required for login. Refer to **Appendix D – Project & Environmental Risk Assessment**.

## 7. Risk Management

#### 7.1 INTRODUCTION

Project risk management is completed as directed within the <u>Risk Assessment procedure in Compass</u>, and as detailed within PMP. The <u>Risk Assessment – Quick Reference Card</u> provides a summary of the risk assessment process, including consequence and likelihood tables.

#### 7.2 ENVIRONMENTAL ASPECTS AND IMPACTS

The project specific Environmental Risk and Opportunity Profile takes into account identified hazards (aspects) and impacts which are relevant to the project. The Project team has reviewed all available information (i.e. risk assessments, consultant reports, advice, papers, scope of works etc) to ensure the Environmental Risk and Opportunity Profile accommodates all known issues.

Hindmarsh ensures environmental aspects and impacts are continually reviewed, risks assessed and that monitoring requirements remain relevant and current.

Key environmental aspects and risks are communicated to Hindmarsh employees and subcontractors based on level risk, controls implemented and or as deemed appropriate by project requirements.

Please refer to the project specific <u>Environmental Risk and Opportunity Profile</u>. Refer to **Appendix D.** 

#### 7.3 ENVIRONMENTAL IMPACT GUIDES - EIG'S

Hindmarsh has developed a number of standard <u>Environmental Impact Guides (EIGs)</u>, these are documented procedures targeting high risk and \ or common environmental aspects and impacts which arise from general construction activities. EIGs provide the project team with general guidance regarding the management of each respective environmental impact, describes the processes involved, the permits or licenses required,

the control measures to be implemented, the monitoring and reporting requirements and any emergency response measures to be implemented.

These documents are available upon request and are communicated to workers as required. A number of these EIGs are available via Compass these include:

- EIG001-Soil Erosion, Sediment, Surface Run Off
- <u>EIG002-Disturbance Flora Fauna</u>
- <u>EIG003-Disturbance Aqua Flora Fauna</u>
- <u>EIG004- Noise Emissions</u>
- EIG005- Atmospheric Emissions
- EIG006- Vibration
- EIG007- Storage, Maintenance, Refuel
- EIG008- Storage, Handling or Hazardous \ Dangerous Substances \ Materials
- EIG009- Social Impact
- EIG010-Presence of Infectious Plant, Disease or Weeds
- EIG011- Solid and \ or Liquid Waste, Recycling
- EIG012- Heritage \ Culture Management \ Disturbance
- EIG013- Land Contamination
- EIG014- Visual Amenity
- <u>EIG016-Acid Sulphate Soils</u>
- EIG017-Ballast
- EIG018- PCB Management
- <u>EIG019- Energy and or Water Consumption</u>

Note: EIGs relevant to this project are detailed within the *Environmental Risk and Opportunity Profile* 

#### 7.3.1 Monitoring and Review of Environmental Impact Guides

EIG effectiveness and currency is monitored throughout the life of the project. The project team accomplishes this by identifying an active EIG (or several) and attaching it to the <u>Weekly \ Daily Environmental and Sustainability Check Sheet.</u> During completion of the check sheet the EIG content is also checked for efficiency and currency. The EIG is marked accordingly and amendments made and or controls altered as required. The EIG sheet under review accompanies the completed check sheet and filed (electronic or hardcopy) as evidence of review.

#### 7.4 DESIGN AND REVIEW CHANGES

The <u>Design Involvement Management Risk</u> procedure ensures that where Hindmarsh is involved in the design, or has input into design, a process exists for ensuring effective participation and management. In support of this procedure a <u>Design Change Authority Form</u> is completed, upon which any environmental aspects or impacts will be considered. This system ensures all related documents, forms and or risk and opportunity profiles are also updated accordingly.

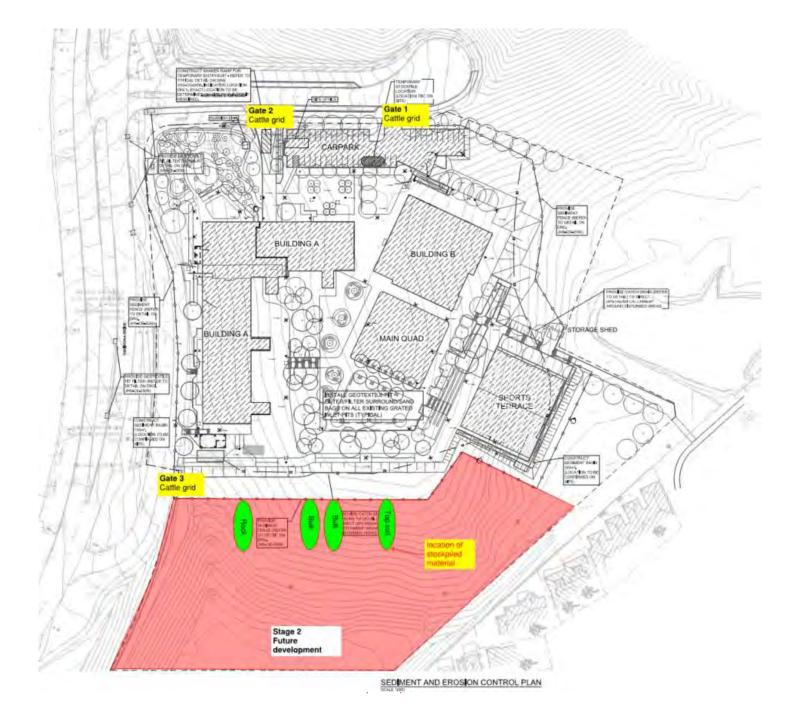
Design changes may be tracked via the <u>Design Change Register</u>, Aconex or similar system.

Safety in design documentation may also be reviewed to ensure environmental considerations are addressed appropriately. Please refer to the <u>Safety in Design</u> procedure and <u>Safety in Design Risk and Opportunity Profile</u> where available.

#### 7.5 CONSTRUCTION SOIL AND WATER MANAGEMENT PLAN

The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following. For The full Sub-Plan refer to APPENDIX B

- Soil erosion and water management set out provided by M+G Consulting shown below JHS-CE-2005
- HCA has incorporated cattle grids and all 3 gates to shake debris from the wheels of leaving vehicles. Additionally, The traffic controller at the gates will inspect vehicles leaving the site to ensure no transfer of materials outside of the site confides.



- The following controls will be utilised on the JHS site per the above drawing. Additional
  protection may be required to strengthen the design should heavier than predicted
  weather events require it. All external kerb inlets located on Environa dr will be
  protected with sandbags and geotextiles fabric per JHS-CE-2005 and 2006. Sediment
  fencing and drainage ditches to direct overland flow to settlement ponds to be treated.
- The agreed quantity of soil will be stockpiled on the stage 2 site for future use by SINSW. The stockpiles will be seeded for stability and have sediment fencing as detailed in JHS-CE-2006 installed to the low side of each stockpile to protect against unfiltered run off entering the close by Jerrabomberra Creek.
- During heavy rain events and immediately after the site will be assessed by the project team to determine if the site will close of if works can continue and manage site, and;
- Prior to major rain fall events high risk for soil erosion, such stockpiles and at-risk
  elevation on the construction site will be covered with geotechnical fabric above the line
  of the sediment control fence. Thorough inspection and record keeping will be
  maintained by HCA both before and after weather events. Pre and post rainfall
  procedures

## 8. Hazard Reporting

Hindmarsh employees, subcontractors, those working on site, as well as those visiting have a duty to report any hazard observed on site. If a hazard is suspected or identified, report the matter with urgency to a Hindmarsh Management representative who shall be responsible for recording this in the OnSite CAR Module.

Hazard information may be communicated via site induction, safe work method statement review, and \ or safety meetings (e.g. Pre Start and Toolbox) held on site.

Where a Corrective Action has been submitted reporting a hazard, Hindmarsh shall investigate and take necessary corrective action to address the issue raised to remove the hazard and \ or prevent a reoccurrence.

## 9. Emergency \ Incident Management

Please refer to the Projects <u>Emergency Management Plan (EMMP)</u> for information regarding emergency preparedness and response. The project-specific Emergency Management Plan (EMMP) ensures Hindmarsh controls, and assesses Emergency preparedness elements as required for the project.

#### 9.1 INCIDENT MANAGEMENT

Refer to the <u>Injury, Illness and Incident Management and Reporting</u> flow chart for detailed guidance regarding the management and reporting of injuries, illness and incidents.

Procedures and processes referenced within the above mentioned document address the following:

- Detailed definitions (SQE Definitions)
- Actions to be taken in the event of an injury, illness or incident (<u>Injury, Illness and</u> <u>Incident Response</u>)
- Additional reporting responsibilities and obligations associated with higher level injuries \ incidents (<u>Incident Actions \ External Notifications</u>)
- Incident Reporting responsibilities and expectations (<u>Incident Reporting Flowchart</u>)
- Site and or National investigation requirements
- Corrective and Preventive Action
- Analysis of data \ findings (including Objectives \ Targets status)
- Refer to SSDA incident notification process.

A <u>Crisis Management and Recovery Plan</u> supports the injury, illness and incident management process.

#### 9.1.1 Significant SQE Incident Alerts

Hindmarsh communicates lessons learnt information, from both internal and external events, via Significant SQE Incident Alerts. Refer to the <u>Safety Management and</u> Sustainability Process Map for a list of those available.

### 10. Communication \ Consultation

#### 10.1 INTRODUCTION

With many interested parties involved in the project it is critical that communication and consultation occurs efficiently and effectively between all.

With regards to environmental issues consultation and communication generally occurs when the following matters arise:

- An employer or employees identifies a hazards
- assessing any aspect \ impact (risk)
- deciding on measures to control risks
- implementing controls
- reviewing the effectiveness of controls
- reviewing and developing policies
- investigating incidents \ complaints
- · changing work practices and procedures
- introducing new substances to the workplace
- changes to current health and safety Acts, Regulations, Australian Standards, Codes of Practice and other relevant environmental requirements

#### 10.2 MEETINGS \ REPRESENTATIVE \ OTHER AGREED ARRANGEMENTS

In discussion with site workers (Hindmarsh employees and Subcontractors), the following arrangements have been made with regards to communication and consultation regarding environmental matters:

Determine (preferably by obtaining agreement from workers onsite to which of the above mentioned forums is most acceptable) communication and consultation arrangements. Arrangements may include one or more of the following:

- The formulation of an Environmental Meeting (Hindmarsh Internal \ Contractor)
- Inclusion of environmental issues in other meetings \ forums
- Other agreed arrangements, eg (detail what the specifics are)
  - Environmental Meeting
  - Daily Prestart Meetings
  - Toolbox Meetings
  - Site Induction
  - Weekly Subcontractor \ Supervisor meetings
  - Hazard Identification \ Reporting and Communication
  - SWMS Submission and Review

Once determined or agreed arrangements are to be summarized here and communicated to all workers on site. Supporting posters \ flow charts may be posted to assist with communication.

## 10.3 KEY STAKEHOLDER, COMMUNITY AND AUTHORITIES COMMUNICATIONS \ CONSULTATION

Hindmarsh seeks to ensure stakeholders, the local Community and authorities are satisfied by the manner in which construction activities and tasks are managed.

#### **10.3.1 AUTHORITIES**

Hindmarsh acknowledges at times it will be necessary to communicate, and or consult, with public authorities regarding emergency planning and other relevant environmental issues.

#### **10.4 COMMUNICATION SUMMARY**

Communication with internal and external stakeholders regarding environmental issues will be in accordance with the following table:

#### **Notifications**

Subject	Action	Recipient	Frequency
Environmental incident	Project Manager	TSA / SINSW Superintendent / SINSW	As per client requirements
Pollution \ Environmental non compliance	Project Manager	TSA / SINSW Superintendent / SINSW	As per client requirements
Public complaints	Project Manager	HCA Construction Manager \ TSA	48 hours and as per client requirements
Complaint response	Project Manager	HCA Construction Manager \ TSA	48 hours and as per client requirements
Extended working hours	Project Manager	TSA / SINSW Superintendent / SINSW	and as per client requirements
Discovery of threatened fauna	Project Manager	State Manager Construction	48 hours
Discovery of archaeological material incl heritage items	Project Manager	State Manager Construction \ TSA	48 hours and as per client requirements
Discovery of skeletal material	Project Manager	State Manager Construction \ TSA	24 hours and as per client requirements
Consultation Package 1	Project Manager	Via SINSW Communications Department	As Required \ as per programme
Consultation Package 2	Project Manager	Via SINSW Communications Department	As Required \ as per programme
High Noise \ Night Works (note these events are not planned to occur)	Project Manager	Via SINSW Communications Department	2 Days prior to works commencing

#### General

Subject	Action	Recipient	Frequency
EMP	Project Manager	Internal	Quarterly
Environmental CAR	Team	Project Manager	As stipulated within ARN

Audit	National SQE Manager	Project Manager	Notify 5 days prior
Environmental performance	National SQE	State Manager	As scheduled via
	Manager	Construction	Internal Audit

#### Meetings

Туре	Chair	Attendees	Frequency
Key Stakeholder Meeting	Project Manager	ТВА	Weekly to Fortnightly
Toolbox Meetings	Site Manager	As Required	Weekly
Daily Prestart Meetings	Subcontractor Reps	As Required	Daily

#### 10.5 COMMUNITY CONSULTATION AND COMPLAINTS HANDLING

Contact details for HCA can be found by the public on the "notice of building work" signage at the entry to the site, there will also be additional signage at regular intervals on the perimeter fencing providing contact details for HCA.

In the event of receiving a complaint HCA will review and issue to TSA and SINSW Communications Department. The SINSW Communications Department will then deal with the complaint with assistance from HCA.

SINSW Community Consultation Plan includes processes and notification periods for communication The below exert from the CCS details the process of investigation and handling of complaints and enqueries directed to the project team;

SINSW manages enquiries (called interactions in our Customer Relationship Management (CRM) software, Darzin), and complaints in a timely and responsive manner.

Prior to project delivery, a complaint could be related to lack of community consultation, design of the project, lack of project progress, etc.

During project delivery, a complaint is defined as in regards to construction impacts – such as – safety, dust, noise, traffic, congestion, loss of parking, contamination, loss of amenity, hours of work, property damage, property access, service disruption, conduct or behaviour of construction workers, other environmental impacts, unplanned or uncommunicated disruption to the school.

If a phone call, email or face-to-face complaint is received during construction, it will be acknowledged within 2 working days and logged in our CRM, actively managed, closed out and resolved by SINSW within 2 to 5 business days, where practicable. Where complaints are unable to be resolved within this timeframe the complainant will be provided with regular updates regarding the complaint resolution process.

A 24-hour contact number for the project site manager will be displayed at the site and can be shared with the community as necessary for any urgent issues that need to be addressed on site, outside of business hours.

As per our planning approval conditions, a complaints register is updated monthly, or as required by the planning authority, and is publicly available on the project's website page on the SINSW website.

If the complainant is not satisfied with SINSW response, and they approach SINSW for rectification, the process will involve a secondary review of their complaint as per the outlined process.

Complaints will be escalated when:

- An activity generates three complaints within a 24-hour period (separate complainants).
- Any construction site receives three different complaints within a 24-hour period.
- A single complainant reports three or more complaints within a three-day period.
- A complainant threatens to escalate their issue to the media or government representative.
- The complaint was avoidable.
- The complaint relates to a compliance matter.
- The complaint relates to a community safety matter.

The complaint relates to a property damage claim.

Complaints will be first escalated to the Senior Manager, Community and Engagement or Director of Communications for SINSW as the designated complaints handling management representatives for our projects. Further escalation will be made to the Executive Director, Office of the Chief Executive to mediate if required.

If a complaint still cannot be resolved by SINSW to the satisfaction of the complainant, we will advise them to contact the NSW Ombudsman - https://www.ombo.nsw.gov.au/complaints.

## 11. Induction and Visitor Management

Site Induction is undertaken by all workers (this includes Hindmarsh employees, all subcontractors and any employees working for subcontractors), prior to work commencing on site. Induction consists of the worker completing a <u>Site-Specific Induction</u> and by being made aware of the <u>Site Safety Rules</u>. The worker acknowledges acceptance and understanding of the induction process by signing the <u>Site-Specific Induction</u> form. During induction copies of all appropriate licensing, certification and qualification will be collected by Hindmarsh and retained with the worker's induction record. A nominated Hindmarsh employee\* will be responsible for maintaining these records.

It will be a condition of entry, of the project, that each individual worker has a valid White Card/Blue card as issued by a recognised safety training authority.

#### 11.1 VISITOR INDUCTION

A visitor's induction is undertaken by all visitors, prior to site access. Visitor induction consists of the visitor reading and understanding the project's <u>Safety Guidelines for Visitors</u> <u>Pamphlet, Site Safety Rules</u>, and <u>Emergency Management Plan (EMP) - Visitor</u> <u>Information</u>. Visitors to site are to acknowledge understanding of the Visitor Induction by the signing of the <u>Acknowledgement Register</u>.

Those who visit site for a one off short duration visit to carryout non-intrusive work such as – external auditors, delivery drivers may visit site without undertaking the Visitor Induction however these visitors must be accompanied at all times (if on site) and or must follow Hindmarsh representative's instructions.

#### 11.2 DRIVER CODE OF CONDUCT

All contractors and delivery drivers accessing the JHS site are expected to adhere to the site-specific rules which include strict conformance to the temporary traffic management plan and speed limits on site. Driving outside of the confines of the JHS site it is expected that all HCA contractors conduct themselves in a professional manner that ensures adherence to road rules.

(a) minimise the impacts of earthworks and construction on the local and regional road network;

The location of JHS project lends its self to little disruption to local traffic. Set in a newly released land with no construction either side. At the bottom of the block over the Jerrabomberra creek there is the local primary school. There is no access to the site by vehicle from another road than Environa dr and thus HCA does not expect any cueing of trucks on Environa Dr. The site contains sufficient haulage and parking for construction vehicles to park off Environa drive.

Haulage routes are further detailed in Appendix E CTPMSP.

(b) minimise conflicts with other road users;

The highest level of professionalism is expected from all contractors engaged by HCA.

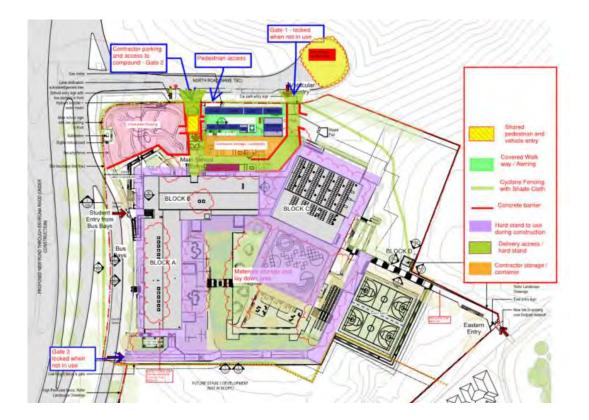
- (c) minimise road traffic noise; and
  - Covered during induction are driver mitigation strategies surrounding noise on public roads surrounding the project that may impact residents nearby. Air breaks, horns, unattended idling vehicles will be kept to a minimum.
- (d) ensure truck drivers use specified routes.

HCA does not anticipate that materials or contractor travel to the JHS site would cause any excess noise during transport that would be considered outside of normal levels. Contact details of the Site manager are posted on the Notice of Building Work sign on the perimeter fencing should a member of the public wish to contact someone to discuss a complaint.

#### 11.3 CONTRACTOR PARKING

Contractor parking will be provided on a flattened area in the top NW corner of the site as shown below in the internal traffic management plan.

No on street parking will be permitted on Environa Dr by contractors



## 12. Checking

#### 12.1 MONITORING AND MEASUREMENT

Monitoring requirements for the project will be identified within the project specific <u>Environment Risk and Opportunity Profile</u>). Where monitoring has been identified data collected may be analysed and may result in corrective and or preventive action. All Hindmarsh owned measuring equipment must be registered on the <u>Equipment Calibration Register</u> and all associated calibration records maintained. Hindmarsh may outsource environmental monitoring to external consultants as required. Calibration records for non-Hindmarsh owned equipment will be requested.

The following should be noted regarding possible noise \ vibration \ dust monitoring regimes:

- Monitoring may be undertaken in response to complaints where this is considered an appropriate response
- Monitoring that is to occur will be undertaken by personnel suitable qualified and experienced in undertaking acoustic measurements
- Monitoring may occur for plant and equipment which is perceived as 'excessively noisy' to determine the need for rectification or replacement
- If night works are required: Night works construction noise levels, if approved by EPA, may be monitored at the start of the activity, and at a location equivalent to the most affected noise sensitive land user to confirm operation in accordance with EPA requirements.

#### 12.2 NON-CONFORMITY, CORRECTIVE AND PREVENTIVE ACTION

Any environmental nonconformity observed will be rectified via the Corrective Action process. Where nonconformity creates a hazard this will result in either:

- a record being made within an "Uncontrolled Hazard Booklet",
- a Corrective Action Required form being raised and issued, or
- the completion of an Incident Report.

Where a hazard has not been created by the nonconformity a Corrective Action Required form will be issued if immediate action is not taken to rectify.

Where a Corrective Action Required form is issued and it is not addressed in a timely manner or there is a subsequent re-occurrence of the non-conformance the <u>Corrective</u> Action and Escalation Process will commence.

Please refer to the <u>Corrective Action</u> procedure and <u>Uncontrolled Hazard \ Hazard Reporting - Management flowchart for further information.</u>

During project delivery Hindmarsh anticipates and encourages continual improvement in all areas of business. Continual improvement opportunities may arise from inspections, testing, auditing, incidents and or observations. Hindmarsh promotes and support the issue of corrective actions, as required, to support continual improvement requirements. Please refer to the <u>Preventive Action</u> procedures for further information.

#### 12.3 AUDITING

Hindmarsh actively monitors performance and seeks potential improvement opportunities by completing internal audits. Please refer to <u>Audits Management</u> procedure for detailed information regarding the internal audit function and requirements, including:

- Audit Notification
- Internal Auditor Notes (audit opening \ closing meeting)
- Internal Auditor Notes (audit)
- Internal Audit Report

#### 12.4 INSPECTION (EVALUATION OF COMPLIANCE)

The Weekly <u>Environmental and Sustainability Check Sheet</u>, is completed by the project team to evaluate compliance. The weekly or daily check sheet is customised to reflect specific project requirements. Where applicable, the environmental controls listed within <u>Environmental Risk and Opportunity Profile</u> may also be included within the check sheet. It is preferred that only persons who have completed environmental awareness training or environmental management training complete the check sheet, however at times it is accepted it may be completed by a resource who has not completed such training but whom has environmental experience.

Hindmarsh management also inspect the site to ensure that the environmental impacts resulting from construction work are being adequately mitigated and environment controls have been implemented, are being met and maintained. Refer <u>Senior Manager's Visit</u> (SMV) and <u>Management</u>, <u>Project Inspections</u> documents.

#### 12.5 MONITORING REQUIREMENTS

Below items are monitoring requirements as stated in the EIS/ESD reports:

- Evaluate the School Transport Plan process to revise and improve the process to achieve outcomes.
- Pre-commissioning, commissioning, and tuning of building systems to ensure systems are operating as intended. This will be monitored through the building asset management systems.
- A project-specific Aboriginal Participation Plan has been developed to monitor and report on the minimum Aboriginal participation requirements.
- Energy efficiency programs to be developed as targets to aim for, reviewed annually.

## 13. Reporting

#### 13.1 WEEKLY REPORTING REQUIREMENTS

- Weekly SQE Report
- Weekly Environment & Sustainability Check Sheet or Daily Environmental & Sustainability Check Sheet
  - Results of the Environmental & Sustainability Weekly or Daily Check Sheet are to be reported to the Project Manager

#### 13.2 MONTHLY REPORTING REQUIREMENTS

- Monthly Internal Project Report
- OnSite Database (Intranet)
  - Earthworks
  - Structure
  - Facade
  - Mechanical
  - Concrete (insitu and or precast)

#### 13.3 CLIENT & EXTERNAL REPORTING REQUIREMENTS

Monthly Client Report

#### 13.4 REGULATORY REPORTING REQUIREMENTS – EPA

There is a duty to report pollution incidents under section 148 of the Protection of the Environment Operations Act 1997 (POEO Act).

Pollution incidents causing or threatening material harm to the environment must be notified. A 'pollution incident' includes a leak, spill or escape of a substance, or circumstances in which this is likely to occur. 'Pollution incident' is defined in the Dictionary to the Act as an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.

If you observe a major pollution incident that presents an immediate threat to human health or property, such as toxic fumes or a large chemical spill, call 000 to report it to emergency services. As first responders, Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are responsible for controlling and containing incidents.

In the event of a reportable environmental incident the Project Manager (PM) must refer to the <u>Injury, Illness and Incident Management and Reporting</u> flow chart for detailed guidance regarding the management and reporting of environmental incidents.

## 14. Document and Record Management

Environmental project records are controlled in accordance with the Project Management Plan Section :

Document and Record Management. The minimum records maintained include the following:

Category	Record	Responsible	Retention Timeframe
General Requirement	Environmental Management Plan (all versions), Including:  • Performance Targets and Measurements	Project Manager	Permanent
	Contact and Service Provider Information     Site Diary – Site Manager \ Foreman     Site Diary – SQE (where required)	Site Manager Project Manager Site Manager	Permanent Permanent Permanent
	<ul> <li>Inspection Records</li> <li>Training Records – Including         Qualifications held by individuals</li> <li>All formal correspondence with         stakeholders</li> <li>Meeting Minutes</li> <li>Complaint records</li> <li>Audit reports (including internal review reports)</li> <li>Weekly Environmental &amp; Sustainability         Checksheets</li> <li>Induction Records</li> </ul>	Site Manager Project Manager Project Manager Site Manager Site Manager SQE Supervisor Site Manager Site Manager	Permanent Permanent Permanent Permanent Permanent
Legislative \ Regulatory	Identified Legislative Regulatory Register	Project Manager	Permanent
Approvals, Permits and Licenses	Any Approvals, Permits and Licenses	Project Manager	Permanent
External Review Reports	Not Applicable		
Construction Waste management	Waste tracking dockets Waste disposal receipts	Site Manager Site Manager	Permanent Permanent
Land Contamination	Not Applicable		
Hazardous Substance	Copies of MSDS's	Site Manager	Permanent
Corrective Action Request	Copies of issued corrective action \ Action Required Notifications Log of corrective actions	Project Manager Project Manager Project Manager	Permanent Permanent Permanent
Incident reporting	Environmental incident reports Incident Investigation Reports	Project Manager Project Manager	Permanent Permanent
Performance Analysis \ Evaluation Reports	Where available	Project Manager	Permanent

Additional information regarding document and record control is available, refer: <u>Control of Documents</u> and <u>Control of Records</u>.

Each subcontractor is selected on the basis of their ability to meet all specified requirements including Quality, Environment and Health and Safety. The following are examples of environmental documents which may be required from subcontractors:

- Tool box talks and attendance registers
- Environmental Risk Assessment
- Project Risk Assessments
- Safe Work Method Statement (SWMS)
- Material Safety Data Sheets (MSDS)
- · SQE information such as logbook, tests records etc of all plant and equipment on site
- Competency Certificates and training records

Applicable subcontractors may also be required to submit a site specific Quality, Environmental and \ or Health and Safety Plan as determined by the contract requirements and / or risks.

#### 14.1 CUSTOMISED COMPASS TEMPLATES

During the life of the project a number of Compass templates will be customised, and in some cases continually revised to address project specific requirements: for example Risk Profile templates. In order to ensure these documents \ records are appropriately controlled this project will utilise, either or both, Aconex and or the Site Server Electronic Filing System. Where such documents are controlled via the Site Server Electronic Filing System, the <u>Compass to Project Controlled Document Register</u> shall be completed and maintained accordingly.

## 15. Subcontractor Management

All subcontractors are to ensure they make appropriate environmental inclusions in their SWMS \ JSEAs and abide by all statutory requirement mentioned in this EMP.

Hindmarsh\* is to ensure SWMS are reviewed as per <u>SWMS Review</u>, and to ensure legislative \ regulatory requirements are meet as per Legal Register. Risk Profiles completed are also to be used during the review of SWMS to ensure all known risks have been addressed and adequately controlled.

Monthly subcontractor spot audit may be undertaken to ensure each Subcontractor complies with all requirements (Contract, Statutory etc)

## 16. Project Environmental \ Sustainability Information & Particulars

#### 16.1 EXISTING ENVIRONMENTAL CONDITIONS OF SITE

Existing surrounding development generally includes low density residential developments and local sports facilities to the east, Jerrabomberra Public School to the northeast, and grazing land and natural grasslands to the north, south and west.

The site currently had no road frontage. The future Environa Drive (currently under construction) will border the site to the west. Additionally, there is an unnamed road currently under construction that borders the site to the north and will provide direct access into the school site.

The site is sloped from north to south, with approximately 14m level difference between highest and lowest points. At approximately +606 Australian Height Datum (AHD), the land at the northern site boundary is the highest point of the site, and the land across the north road continues to rise up, away from the site. The land falls away to the south, east and west. The site's lowest point is approximately +592m AHD and occurs at the southern boundary.

Jerrabomberra Creek is located approximately 150m to the southwest of the site, and adjoining land to the southeast is a small dam that forms part of a watercourse and broader wetland.

The site is identified bushfire prone land. The site contains primarily grassland with no remnant trees.

There were no existing services and easements on the site. Once construction is complete on Environa Drive and the north road, services tie-ins will be available for gas, electricity, communications, water supply, drainage and stormwater.

#### **16.2 DILAPIDATION REPORT**

Dilapidation report will be undertaken prior to site works commencement. This report will include roads and entryways of adjacent properties.

#### 16.3 HERITAGE \ CULTURAL CONSIDERATIONS

The site has no known (non-Aboriginal) heritage or archaeological significance. The site is not a listed heritage item, is not located in a heritage conservation area and is not located near a heritage item or conservation area.

As for cultural, overall, it has been found that the proposal will result in minor and acceptable impacts on Aboriginal cultural heritage, with no further investigation required, subject to ongoing consultation with Aboriginal stakeholders.

#### **16.4 GEOTECHNICAL REPORT**

Please refer to Aconex Mail number Hindmars-TRANSMIT-000110 for the Geotechnical Investigation Report for the Jerrabomberra High School site.

#### 16.5 CONTAMINATION \ REMEDIATION REPORT

Please refer to Aconex Mail number Hindmars-TRANSMIT-000848 for the Interim Soil Contamination Report. "Based on the findings of the assessment, potential for gross chemical contamination to be present within the site is considered to be low." (Page 22 - findings / conclusion of Douglas Partners 'DETAILED SITE INVESTIGATION (CONTAMINATION)' report March 2022.

Any suspected contamination discovered during civil works on the site will be dealt with as highlighted below in 16.6.

#### 16.6 UNEXPECTED FINDS PROTOCOL (KNOWN HEALTH HAZARD)

Refer to section 17 in the Emergency Management Plan for Jerrabomberra High School;

#### **ALL WORKERS**

- Must notify HCA representative immediately. Contact CEW: Nick Valois on 0421286395 or any other HCA Representative
- May immediately call 000 if you believe it necessary
- May activate audible alarm device / system if you believe it necessary

#### **ACTION**

#### **HCA**

- CEW / EW to assess the emergency
- · Cease work in the area, and adjacent work areas and establish a 10m exclusion and containment zone;
- Fence the zone off for additional protection for workers and general public
- Immediately engage the services of an licenced asbestos assessor in NSW or Suitably qualified environmental scientist or sample contamination and provide expert advise.
- Communicate the unexpected find as soon as practical including control measures to potentially affected workers and the regulator (for Asbestos Only) and engage Occupational Hygienist.
- If required commence evacuation of site by activating the site siren through nurse call system of air horn
- The same day Both TSA and SINSW will be notified of a find, potential contamination of person and environment.

#### **ALL WORKERS**

#### **EVACUATE / COMMUNICATE**

- Evacuation will be in the form of an air horn '3 blasts' or emergency siren through the nurse call system
- In the event of an evacuation HCA management will direct all workers on site to the muster point

16.7 UNEXPECTED FINDS PROTOCOL (ASBESTOS, CONTAMINATION OR ARCHAEOLOGICAL FINDS, ABORIGINAL HERITAGE OR NON-ABORIGINAL HERITAGE FINDS)

#### **ALL WORKERS**

- Must notify HCA representative immediately. Contact CEW: Nick Valois on 0421286395 or any other HCA Representative
- May activate audible alarm device / system if you believe it necessary

#### **ACTION**

#### HCA

- · Cease work in the area, and adjacent work areas and establish a 10m exclusion and containment zone;
- Fence the zone off for additional protection for workers and general public
- HCA to notify TSA and SINSW as soon as practical
- Communicate the unexpected find as soon as practical including control measures to potentially affected workers and the regulator (for Asbestos Only) and engage Occupational Hygienist.
- The same day both TSA and SINSW will be notified of a find, potential contamination of person and environment

#### **ALL WORKERS**

#### **EVACUATE / COMMUNICATION**

- · Evacuation will be in the form of an air horn '3 blasts' or emergency siren through the nurse call system
- . In the event of an evacuation HCA management will direct all workers on site to the muster point

#### 16.8 NOISE, DUST & VIBRATION MANAGEMENT

HCA's Construction Noise and Vibration Management Plan will have a simple yet effective structure.

- Gather information
- Formulate actions
- · Agree and communicate recommendations
- Implement everything.
- Review and communicate.

As the Jerrabomberra High school site is green field, the HCA believes the noise and vibration elements to be of a low risk and thus will monitor with no specific actions. Dust management / suppression will be managed with the use of water trucks on a regular schedule.

If required Data loggers / noise and vibration will record in strategic locations around the site, firstly to establish benchmark data for the site prior to the commencement of construction activity and secondly to monitor noise and vibration periodically during construction. Excessive noise and vibration will be easily identified by the monitors allowing HCA to assess the cause and implement management strategies to remove the risk.

HCA believe the most effective means of dust control is through water suppression. HCA temporary hydraulic scope of services includes provision for hose taps at the primary and secondary entrances. In addition, HCA will utilise water carts in difficult to access areas.

HCA will use cattle grids at the entry of the site & regular street sweepers to ensure that the surrounding roadways are kept clean and free from foreign material.

HCA does not envisage any impact for noise, vibration or dust to the adjoining properties located on Palm Court in Jerrabomberra.

#### **16.10 LIGHT POLUTION**

External lighting used for safe access and egress as well as security will conform with AS4282-2019.

#### **16.11 WASTE MANAGEMENT**

In recent years the waste management industry has responded positively to industry pressure and government legislation. As a result, HCA is able to ensure accurate reporting is available and efficient management of waste separation for recycling is assured. HCA through its waste subcontractor tracks the waste removal from site and provided with statistics at the end of each month with recycling vs landfill.

Through separating onsite waste into different categories HCA further assist with the view to achieve the highest level of recyclability of construction waste. See appendix I

- (a) the recording of quantities, classification (for materials to be removed) and validation (for materials to remain) of each type of waste generated during construction and proposed use for materials to remain:
- (b) information regarding the recycling and disposal locations; and
- (c) confirmation of the contamination status of the development areas of the site based on the validation results.

The above items are all documented and reported on monthly as a part of HCA monthly reporting. The location of of the waste disposal will be determined by which waste contractor HCA engages during the procurement process.

Below is an example of the waste reporting HCA receive from a waste contractor.

September-October 2021 % of Waste Location of Bin Number Bin Size Total Weight Waste Type Method Disposal Recycled Tiger Waste 101182 15 2.03 Tonnes Mixed Demo Screen & Grappled Transfer Station Tiger Waste 101383 15 4.19 Mixed Demo Screen & Grappled Transfer Station Tiger Waste 101740 1.69 Tonnes Mixed Demo Screen & Grappled Transfer Station Tiger Waste Mixed Demo 102154 1.49 15 Tonnes Screen & Grappled 80 Transfer Station Tiger Waste 102241 15 3.46 Mixed Demo Screen & Grappled 80 Tonnes Transfer Station Tiger Waste 102504 4.10 Mixed Demo 15 Tonnes Screen & Grappled 90 Transfer Station Tiger Waste 102761 15 1.40 Tonnes Mixed Demo Screen & Grappled 80 Transfer Station Totals 105 18 36 % Reycled Items 84 952.16 Percentage Waste Recycled to date = 1115.6

All waste collected by **Tiger Waste** (HCA's preferred waste contractor) is delivered to our ACT Government licenced waste sorting facility in Fyshwick. The waste is sorted by mechanical grabs before it is screened and processed through our hand picking station. The recyclable materials are delivered to local and regional licenced recyclers, whilst the landfill waste is transported daily to the Veolia operated Woodlawn Bioreactor

#### 16.12 ADDITIONAL REPORTS

Refer to section 2.3.1 for list of documents and reports referenced.

#### 16.13 PROJECT SPECIFIC SUSTAINABILITY INITIATIVES

Refer to section 4.4 for full list of project specific sustainability initiatives.

#### 16.14 ENVIRONMENTAL MANAGEMENT SUB-PLANS

This section of the plan is to identify whether there are any sub-plans applicable to this document. This will include (the emergency management plan must be referenced here):

- Archaeological Assessment
- Ecological Assessment
- Contamination assessment
- Heritage assessment
- Bushfire Analysis
- Flood Management

#### 16.15 CONSTRUCTION TRAFFIC AND PEDESTRIAN MANAGEMENT SUB-PAN

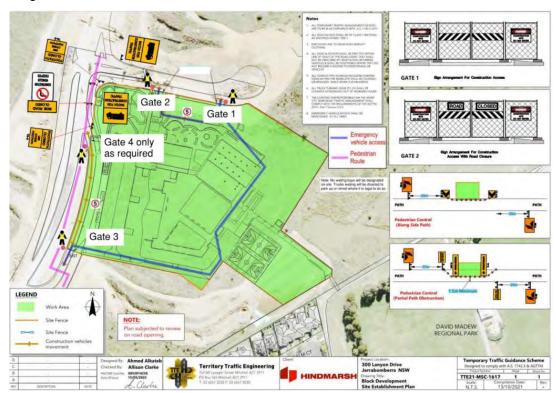
See appendix E for detail access plans. Main entry into the site will be via Gate 1 and Gate 3 for deliveries. Gate 2 will be used to access the contractors internal parking as shown below, from this location vehicles are met with steel sliding gates that will be closed at all times and manned by a CW as documented in the TTMP. There is temporary gravel roads from Enivona dr into the contractor parking and on the haul road around the site for truck and crane access.

Full traffic and pedestrian management plan can be found in the *Temporary traffic management plan for Jerrabomberra* 

Stage 1 (site establishment staging described in 16.16)



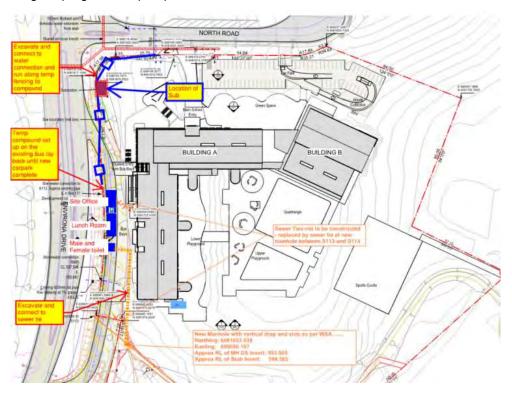
#### Stage 2



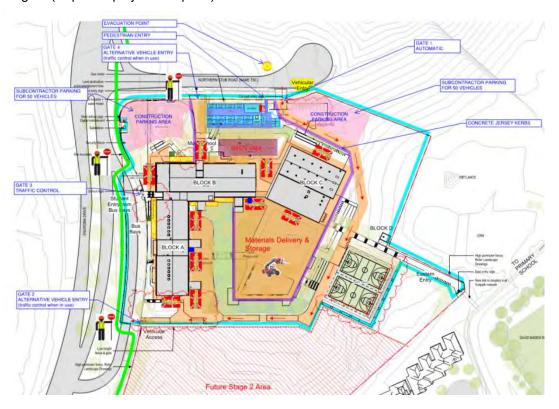
#### 16.16 SITE SETUP - ACCOMMODATION AND AMENITIES MANAGEMENT

A site Layout Plan for stage 1 and 2 has been provided including site amenities.

Stage 1 (Aug 22 - Sep 22)



Stage 2 (Sep 22 – project complete)



## APPENDIX A – ENVIRONMENTAL AND SUSTAINABLITY POLICY



### **Environment and Sustainability Policy**

Hindmarsh operates with full approciation and awareness that environmental protection and sustainability are principle to our ongoing success. Operations in terms of both construction and completion are compassionate to the environment, the local community and aim to support the origing sustainability of the environment.

Hindmarsh seeks to meet its own environmental needs and the needs and expectations of clients, stakeholders, amployees and the community by

- Setting and continually reviewing measureable environmental objectives and targets. Backed by ongoing monitoring, reporting and analysis supporting continual improvement. Complimented by ongoing feedback at all levels.
- Prevent pollution and unnecessary resource consumption by setting targets and maintaining systems and processes which facilitate the more efficient use of energy and material resources and improved waste management, waste avoidance, re-use and recycling.
- Seek to minimise construction related aspects and impacts including noise, vibration, groundwater, air quality, land contamination, amenity and heritage
- Promote a shared sense of ownership and responsibility for optimal environmental performance from board through to employees and contractors whilst developing a culture of environmental respect and appreciation.
- Encourage and support environmental awareness through ongoing training and development of competencies particular to specific environmental impacts related to individual activities.
- Comply with all regal requirements including environmental Legislation, Regulations, Codes of Practice, Applicable Australian and other standards specific to Hindmarsh.
- Implement and maintain the Hindmarsh Management System and its Environmental elements to ensure all
  potential aspects and impacts are identified, evaluated and suitably eliminated or controlled.
- Foster and support continuous improvement at all levels including the identification of key environmental initiatives.

Compliance with this policy will be monitored, sudded and continually reviewed so as to remain effective and aligned with all of our operations.

Rowan Hindmarsh

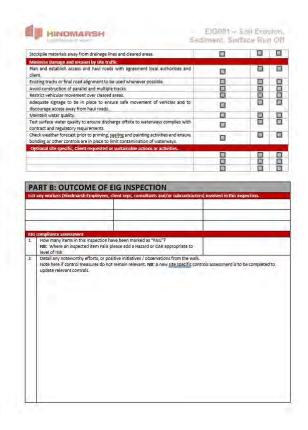
Chief Executive Officer

# APPENDIX B – ENVIRONMENTAL FETAURES AND SOIL AND WATER MANAGEMENT

Document attached - Appendix B - 2022-07-10 Jerrabomberra SWMP M+G response, in conjunction with the below HCA systems.

HCA procedure and guide for Soil Erosion, Sediment, Surface Run Off is designated EIG001 and is available on Compass





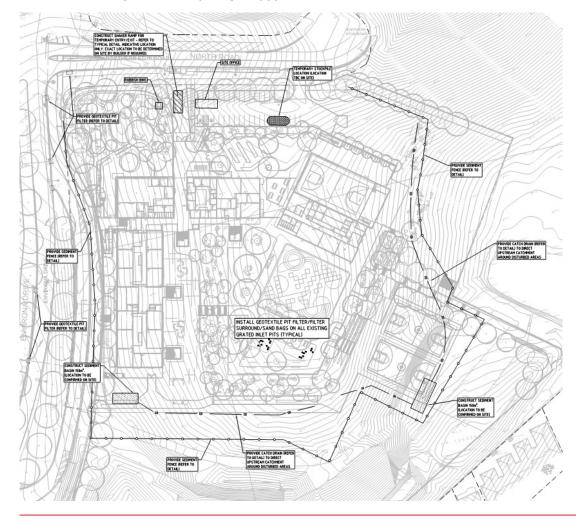


#### ElG001 - Soil Erosion Sediment, Surface Run Off

	GREEN	BLUE	ORANGE	RED	
	Nil issues	Some minor issues that were able to be rectified immediately	Some issues that require rectifying in the next 5 days	Some major issues identified that have been elevated to the Project Manager immediately	
	CA Inspection comple nother team member	ted by site team member (i ):	Cadets only to complet	e concurrently with	
	NAME (PRINT)	SIGNATURE	POSITION.	DATE	
10	CA Inspection accepte	d by (Project Manager):			

THIS INSPECTION FORM MUST BE UPLOADED AND ATTACHED TO AN SQE ACTIVITY (TYPE: ENVIRONMENTAL CHECK) FOR TODAY IN YOUR SITE DIARY

#### Soil and Erosion Control Plan JHS-CE-2005



- HCA intend to treat water in sediment ponds with Floculant and pup into stormwater on a as required basis.
- For 1:50 and 1:100 rain events the over flow of water from sediment ponds will be filtered through silt fencing located on the low side of stage 1 and shown on the above JHS-CE-2005.

Condition		Condition Requirement	Document / Sub-Plan Reference
B17	The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following:		-
	(a)	be prepared by a suitably qualified expert, in consultation with Council;	Section A Page 1
	(b)	measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;	Section B Page 2
	(c)	describe all erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';	Section C Page 2
	(d)	should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);	Section D Page 2
	(e)	provide a plan of how all construction works will be managed in a wet-weather events (i.e. storage of equipment, stabilisation of the Site);	Section E Page 2
	(f)	detail all off-site flows from the site; and	Section F Page 2
	(g)	describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.	Section G Page 2



M & G Consulting Engineers Pty Ltd (ABN 65 094 064 990) Level 3, 50 Berry Street, North Sydney NSW 2060 PO Box 1656, North Sydney NSW 2059

T: (02) 8666 7888 Internet: www.mg.com.au

20th July 2022

Hindmarsh

Attention: Mr Nick Valois

By email:

< nick.valois@hindmarsh.com.au >

Dear Sir,

Re. New High School Jerrabomberra SSD Conditions - Construction Soil and Water Management

Our Ref. 5555

#### Introduction

As the site area of the proposed school site is greater than 2,500m<sup>2</sup>, a conceptual Soil and Water Management Plan (SWMP), in accordance with NSW Landcom publication "Soils and Construction 4th Edition" ("Blue Book") has been prepared by M+G Consulting Engineers (M+G).

This conceptual plan is detailed on M+G our drawings: JHS-CE-2005 & JHS-CE-2006, attached.

In conjunction with Hindmarsh & M+G, the earthworks contactor will undertake and provide a Detailed SWMP, including detailed engineering drawings of the soil and water control measures in accordance with the "Blue Book".

#### **Detailed Responses**

#### Condition B17.

(a) Be prepared by a suitably qualified expert, in consultation with Council;

The conceptual SWMP, as detailed on the above drawings, has been prepared by Simon Matthews, CPEng (Civil & Structural), NER, of M+G Consulting.

Principals:











(b) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;

It is proposed that cattle grids will be installed at exit points of the site; these grids will be inspected and maintained as required on a daily basis.

(c) describe all erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';

The conceptual SWMP detailed on the attached drawings provides conceptual details of the soil and water control measures in accordance with the "Blue Book". Detailed engineering drawings of the specific control measures including the locations of these control measures will be provided in the Detailed SWMP.

These control measures will include, but not be limited to, sediment fences, filters around stormwater pits, catch drains, check dams, level spreaders, protection to temporary earth stockpiles & sediment basins (if required).

(d) should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);

If any earth piles are required to remain with the site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile and the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021, will be complied with.

(e) provide a plan of how all construction works will be managed in a wet-weather events (i.e., storage of equipment, stabilisation of the Site);

This will include, prior to major rainfall events, a requirement that all potentially highrisk areas of soil erosion such as soil stockpiles, steep disturbed slopes etc. are covered with geotechnical material to reduce potential soil erosion. Sediment traps and check dams etc. will be inspected and maintained if required prior to the storm events.



Zlatko Gashi, BE, CPEng, NER, RPEQ, BPBVic, BPTas











All erosion and sediment control measures will be required to be regularly inspected, particularly after wet weather events, and should be repaired and/or maintained to ensure their required functionality. Site works will not recommence until all required erosion and sediment control measures have been inspected and maintained after wet-weather events.

#### (f) detail all off-site flows from the site.

The present pre-construction off-site flows are via overland flow. During the initial construction stages the off-site flows will also entirely be by overland flow.

Prior to overlands flows flowing off-site they will pass through sediment control devices to ensure that the sediments contained in these flows is trapped and retained by these devices and the discharged waters are free of suspended sediment. These sediment control devices include, check dams, sediment fences and sediment basins. The Detailed SWMP will include the detailed design of these devices, in accordance with the relevant sections of the "Blue Book".

As the stormwater drainage system is progressively installed some of the off-site flows will be via this stormwater drainage system. Prior to these overland flows entering the stormwater drainage pits, sediments will be removed and trapped by geotextile filters or the like around the drainage pits

All these control devices will be required to be maintained and inspected, including the removal of sediment, especially after large rainfall events as part of a monitoring/maintenance programme that will be included in the Detailed SWMP to ensure that the treated discharge water does not contain more than 50 mg/L of suspended solids ("Blue Book" chapter 6.3.3 (d)) and the downstream catchment is not adversely affected by the construction stage of the development.

(g) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.

The sediment control devices will be sized to accommodate the design water flows from small (1 in 5-year ARI) and large sized events (1 in 100-year ARI) in accordance with the "Blue Book" Chapter 5. These measures will include, but not be limited to, check dams in drainage channels, stabilized banks to channels and energy dissipators and will be detailed in the Detailed SWMP.

In particular the detailed design including the sizing of the sediment basins takes into account the soil properties of the site and expected weather conditions. These basins are designed to operate in a manner that producers near-clear water discharge (i.e.











total suspended concentrations nor exceeding 50mg/L), especially following period of light rainfall.

These basins are designed in accordance with Chapter 6 of the "Blue Book" as specified in the Detailed SWMP. Chemical flocculation maybe required to achieve the water quality objectives (50 mg/L suspended solids). If the site soil types are clayey or dispersive soils they may require flocculation to achieve this water quality requirement.

We trust this assist and please do not hesitate to contact myself if any further advice or clarification is required.

Yours faithfully M+G Consulting

**Simon Matthews** 

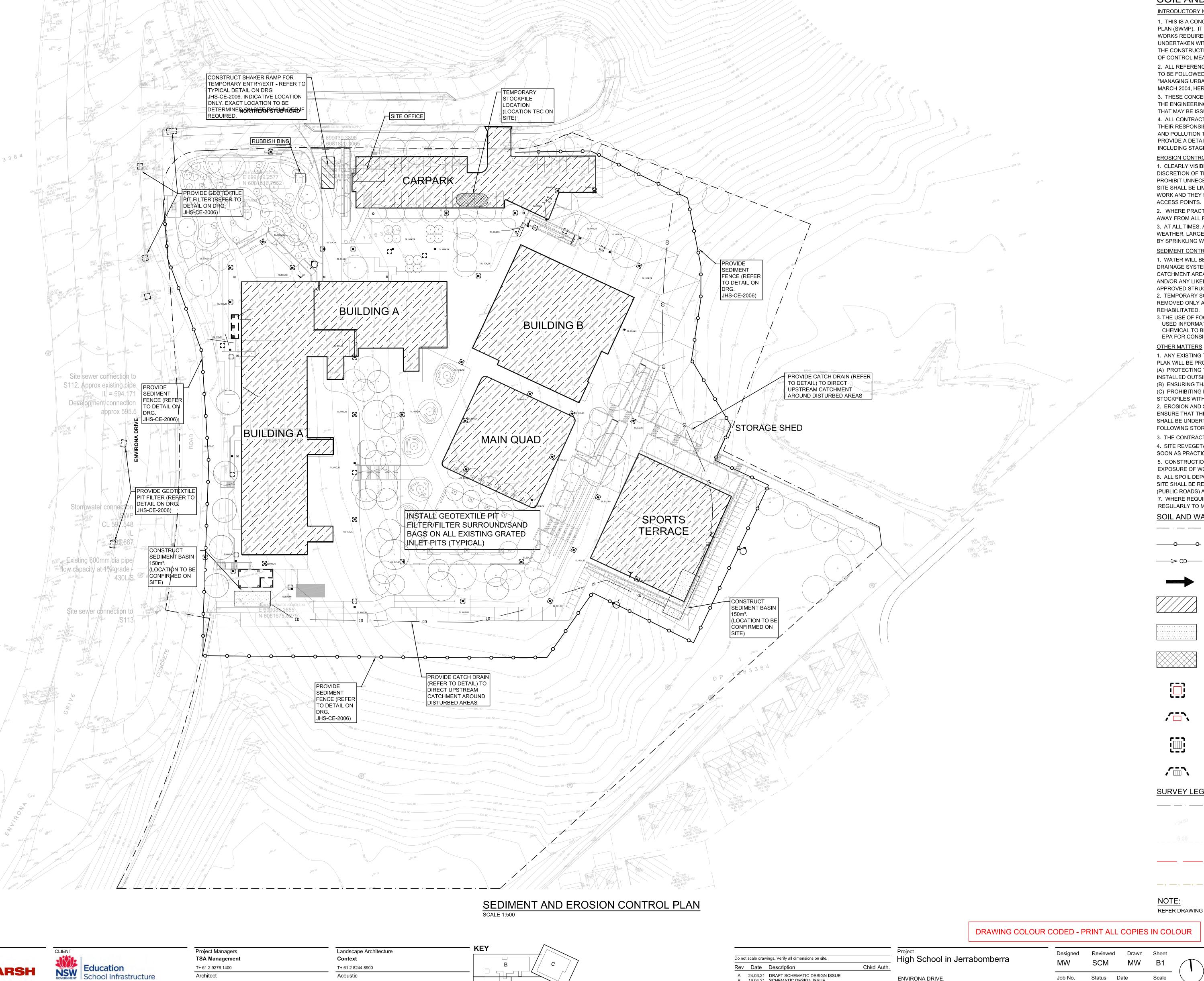
Attached - M+G drawings JHS-CE-2005 & 2006





















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NSW Department of Education | School Infrastructure NSW

T+ 02 9561 8287

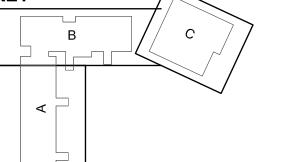
**TKD Architects** T+ 61 2 9281 4399

Mechanical, Electrical, Hydraulic, ESD

Norman Disney & Young

T+ 61 2 9928 6800

**Acoustic Logic** T+ 61 2 8339 8000



B 16.04.21 SCHEMATIC DESIGN ISSUE 07.05.21 SCHEMATIC DESIGN ISSUE 12.05.21 SCHEMATIC DESIGN ISSUE 15.10.21 PRELIMINARY FOR DD 12.11.21 ISSUED FOR DD G 24.03.22 ISSUED FOR RESPONSE TO SUBMISSIONS

H 01.07.22 ISSUED FOR CROWN CERTIFICATION

ENVIRONA DRIVE, JERRABOMBERRA NSW 2619 Drawing Title SEDIMENT & EROSION

CONTROL PLAN

Status Date Drawing No.

Scale DD OCT '21 1:500 JHS-CE-2005

SOIL AND WATER MANAGEMENT NOTES

1. THIS IS A CONCEPTUAL SOIL AND WATER MANAGEMENT PLAN (SWMP). IT IS INTENDED TO INDCIATE THAT THE CIVIL

WORKS REQUIRED FOR THE DEVELOPMENT OF THE SITE CAN BE UNDERTAKEN WITHOUT POLLUTION TO RECEIVING WATERS DURING THE CONSTRUCTION PHASE. THE LOCATIONS, SIZES AND TYPES OF CONTROL MEASURES SHOWN ARE SUGGESTED OPTIONS ONLY. 2. ALL REFERENCES OF DETAILS, TESTING AND PROCEDURES ARE TO BE FOLLOWED AS SPECIFIED IN THE DEPARTMENT OF HOUSING

"MANAGING URBAN STORMWATER SOILS CONSTRUCTION" MANUAL

3. THESE CONCEPT PLANS ARE TO BE READ IN CONJUNCTION WITH

4. ALL CONTRACTORS SHALL FULLY RESEARCH AND UNDERSTAND

1. CLEARLY VISIBLE BARRIER FENCING SHALL BE INSTALLED AT THE

WORK AND THEY SHALL ENTER SITE ONLY THROUGH THE STABILISED

2. WHERE PRACTICAL, FOOT AND VEHICULAR TRAFFIC WILL BE KEPT

3. AT ALL TIMES, AND IN PARTICULAR DURING WINDY AND DRY

BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

1. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT

AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN

DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE (I.E. THE

CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED/STABLISED

2. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE

APPROVED STRUCTURE). PROVIDE FLOCULANT TO EARTH BASIN AS REQ'D.

REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED/

3. THE USE OF FOCCULANTS SHALL BE MINIMISED. SHOULD FOCCULANTS BE

1. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING

(A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS

(C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF

2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE

3. THE CONTRACTOR SHALL PROVIDE ALL MONITORING CONTROLS & TESTING.

6. ALL SPOIL DEPOSITED DURING CARTAGE OF MATERIALS FROM OR TO THE SITE SHALL BE REMOVED IMMEDIATELY TO THE SATISFACTION OF COUNCIL

SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY

4. SITE REVEGETATION AND REHABILIATION SHALL BE UNDERTAKEN AS SOON AS PRACTICABLE THROUGHOUT CONSTRUCTION OPERATIONS. 5. CONSTRUCTION SHALL BE PROGRAMMED SO THAT THE TIME OF

7. WHERE REQUIRED GUTTERS AND ROADWORKS SHALL BE SWEPT

PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

USED INFORMATION ON THE PRODUCT AND DETAILS ON THE PROPOSED CHEMICAL TO BE USED AND POTENTIAL IMPACTS TO BE PROVIDED TO THE

AWAY FROM ALL RECENTLY STABLISED AREAS.

EPA FOR CONSIDERATION AND ASSESMENT.

(B) ENSURING THAT NOTHING IS NAILED TO THEM.

EXPOSURE OF WORKING SURFACES IS MINIMISED.

(PUBLIC ROADS) AND THE OWNER (PRIVATE ROADS).

SITE BOUNDARY

SEDIMENT FENCE

——→ CD—— CATCH DRAIN

REGULARLY TO MAINTAIN THEM FREE FROM SEDIMENT.

SOIL AND WATER MANAGEMENT LEGEND

OVERLAND FLOW

SEDIMENT BASIN (LOCATION TBC

GEOTEXTILE PIT FILTER

GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON NEW PIT SANDBAGS

/ FILTER SURROUND

INSTALLED ON

**EXISTING PIT** 

INSTALLED ON **NEW PIT** 

EX SURFACE

**EX SURFACE** CONTOUR **EXISTING** STORMWATER DRAINAGE LINE

**EXISTING** SEWER LINE

REFER DRAWING JHS-CE-2006 FOR SEDIMENT CONTROL DETAILS.

LEVEL

SANDBAGS **INSTALLED ON EXISTING PIT** 

**SURVEY LEGEND** 

—— — SITE BOUNDARY

ON-SITE)

**TEMPORARY** STOCKPILE (LOCATION TBC ON-SITE)

TEMPORARY SHAKER RAMP FOR ENTRY/EXIT

INSTALLED OUTSIDE THE DRIP LINE.

STOCKPILES WITHIN THE DRIP LINE.

FOLLOWING STORM EVENTS.

AND POLLUTION TO DOWNSTREAM LANDS AND WATERWAYS. PROVIDE A DETAILED SWMP IN ACCORDANCE WITH "BLUE BOOK"

THE ENGINEERING PLANS AND OTHER PLANS OR WRITTEN INSTRUCTIONS

THAT MAY BE ISSUED AND RELATING TO THE DEVELOPMENT OF THE SITE.

THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION

DISCRETION OF THE SUPERINTENDENT TO ENSURE TRAFFIC CONTROL AND

PROHIBIT UNNECESSARY SITE DISTURBANCE. VEHICULAR ACCESS TO THE SITE SHALL BE LIMITED TO ONLY THOSE ESSENTIAL FOR CONSTRUCTION

WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET)

MARCH 2004, HERE IN REFERRED TO AS THE "BLUE BOOK".

**INTRODUCTORY NOTES** 

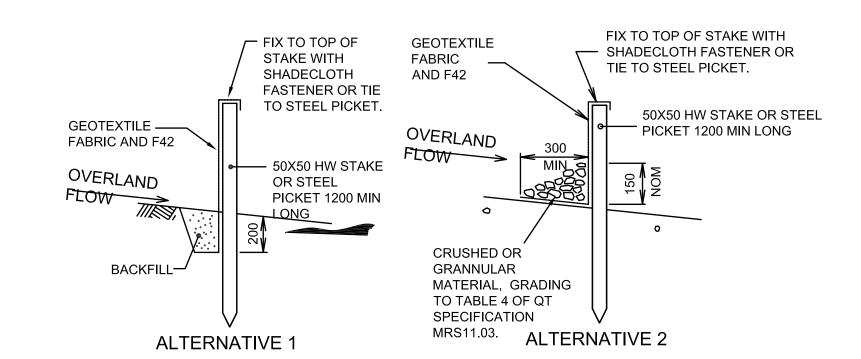
INCLUDING STAGING OF WORKS.

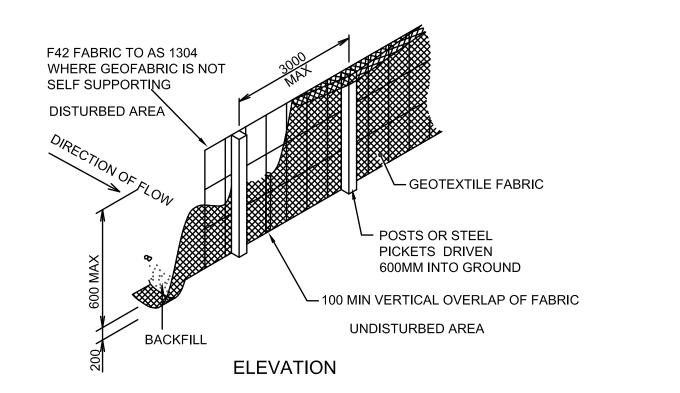
**EROSION CONTROL** 

ACCESS POINTS.

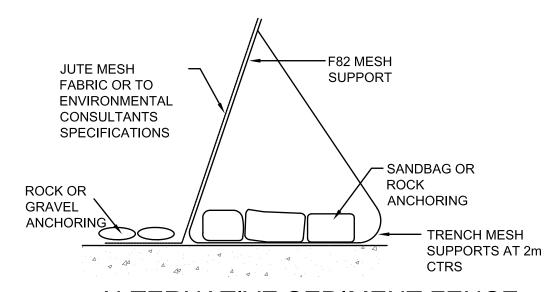
SEDIMENT CONTROL

REHABILITATED.





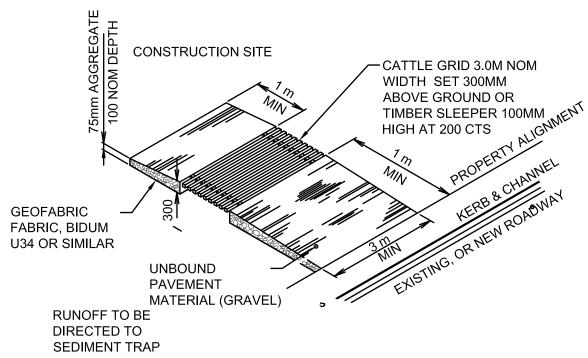
SEDIMENT FENCE NOT TO SCALE



## ALTERNATIVE SEDIMENT FENCE NOT TO SCALE

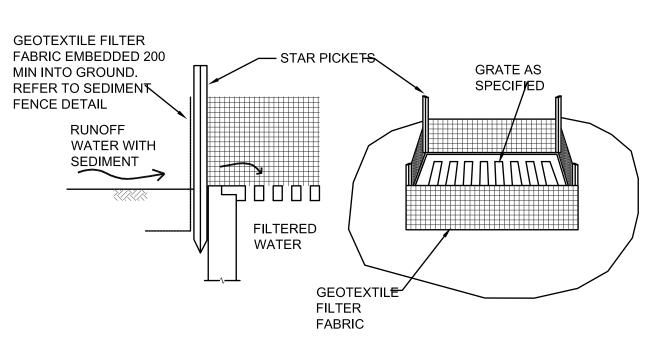
ALTERNATIVE SEDIMENT FENCE NOTES

- 1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
- 2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING
- UV-RESISTANT CABLE TIES. 3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

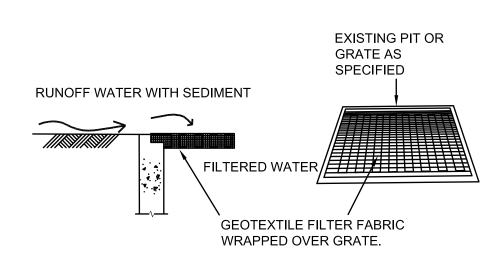


# TEMPORARY CONSTRUCTION VEHICLE **ENTRY/EXIT SEDIMENT TRAP**

NOT TO SCALE

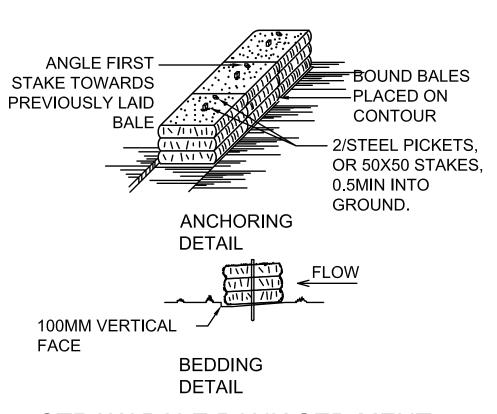


GEOTEXTILE PIT FILTER 1 NOT TO SCALE

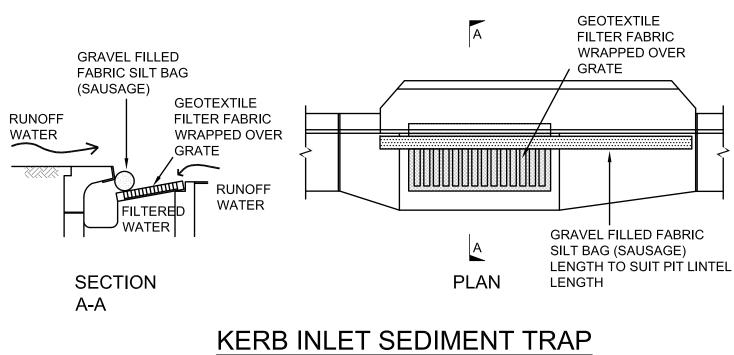


GEOTEXTILE PIT FILTER 2

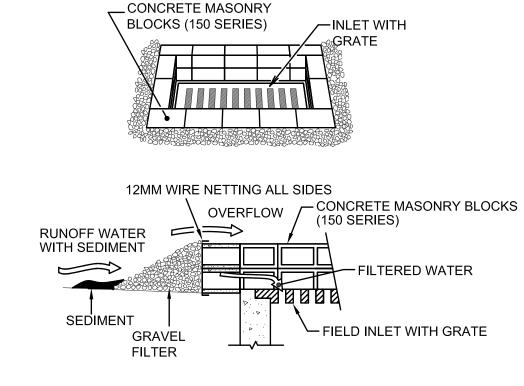
NOT TO SCALE



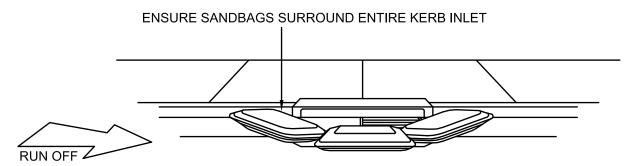
STRAW BALE BANK SEDIMENT CONTROL



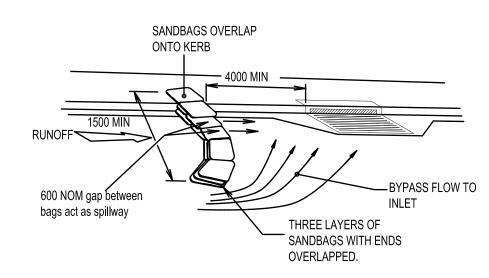




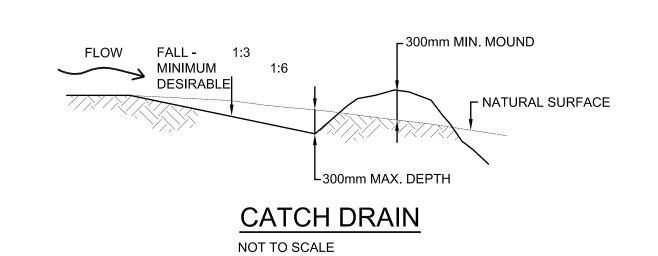
FIELD INLET SEDIMENT TRAP NOT TO SCALE



SANDBAG KERB INLET SEDIMENT TRAP NOT TO SCALE



ON GRADE KERB INLET SEDIMENT TRAP NOT TO SCALE



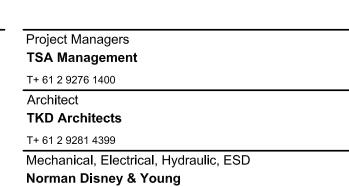


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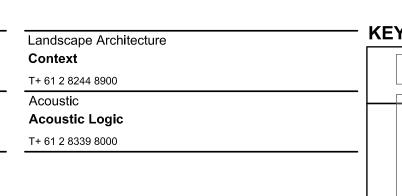
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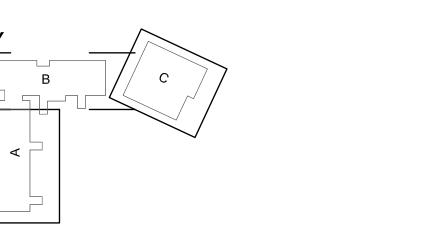


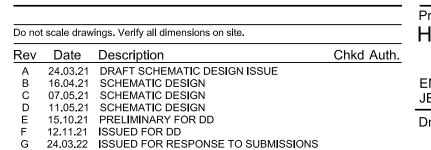


T+ 61 2 9928 6800

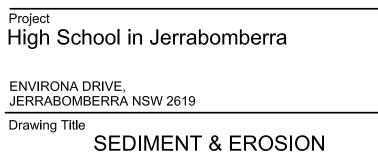


NOT TO SCALE

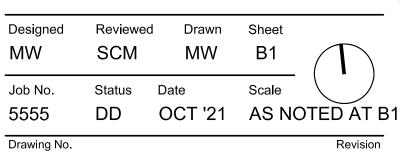




H 01.07.22 ISSUED FOR CROWN CERTIFICATION



CONTROL DETAILS



JHS-CE-2006

North Sydney NSW 2060 (PO Box 1656, NSW 2059)

FOR CONSTRUCTION

Consultation Report								
SSD-24461956 - B17: Construction Soil and Water Management Sub-Plan								
	The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP)							
	and the plan must address, but not be limited to the following:							
	(a) be prepared by a suitably qualified expert, in consultation with Council;							
Date	Description	Content	Action					
2/08/2022	Online meeting held with QPRC, TSA,	Soil and Water Management Sub-Plan	Hindmarsh to provide statement on use of					
	Hindmarsh, M+G, TKD	was discussed	flocculants to QPRC					
3/08/2022	Email outgoing (Hindmarsh to QPRC)	Statement on use of flocculants						
8/08/2022	Email incoming (QPRC to Hindmarsh)	Comments from QPRC soil team	Comments to be reviewed by civil engineer					
			and incorporated into SWMSP					
18/08/2022	Email outgoing (Hindmarsh to QPRC)	Response letter from Civil Engineer to						
		received comments						

#### **Emily Morrow**

**Subject:** New High School in Jerrabomberra: QPRC Consultation required to satisfy SSD

**Conditions of Consent** 

**Location:** Microsoft Teams Meeting

 Start:
 Tue 2/08/2022 1:00 PM

 End:
 Tue 2/08/2022 1:30 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Robert McKnight

Hi Derek,

As part of the SSD process and issue of the Crown Certificate for the New High School in Jerrabomberra, there are a number of Plans and Design items we need to meet with council to discuss.

We can forward relevant documentation through prior to the arranged meeting if required.

- B17 Construction Soil and Water Management Sub-Plan consultation required
- B26 Stormwater connection design approval required
- B27 Public Domain Works consultation required to confirm the design meets the requirements of Council

If this time / date does not fit within your calendar please can you provide an alternate time when you are available to discuss.

Cheers

Robert

## Microsoft Teams meeting

### Join on your computer or mobile app

Click here to join the meeting

Meeting ID: 430 525 498 793

Passcode: FXbz6A

Download Teams | Join on the web

#### Or call in (audio only)

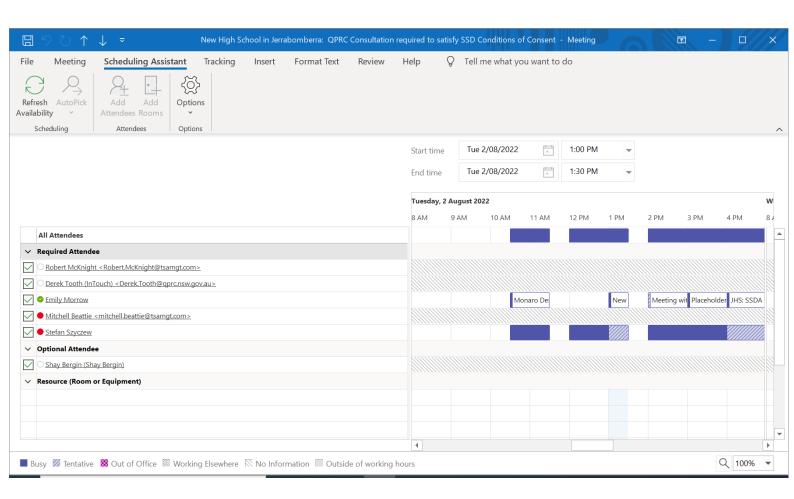
<u>+61 2 8318 0088,,35587394#</u> Australia, Sydney

Phone Conference ID: 355 873 94#
Find a local number | Reset PIN

### 02/08/2022 - Evidence of Online Meeting



### <u>Learn More</u> | <u>Meeting options</u>



#### **Emily Morrow**

From: Emily Morrow

Sent: Thursday, 18 August 2022 12:43 PM

To: 'Derek Tooth'

Cc: Stefan Szyczew (Stefan.Szyczew@hindmarsh.com.au); Nick Valois

**Subject:** RE: JHS: SSD Condition B17 - CSWMSP

**Attachments:** 2022-08-18 Jerra School- Council SWMP comments.pdf

Hi Derek,

Please see attached letter from our civil engineer in response to below comments received from the soil team.

Thanks, Emily



#### **Emily Morrow**

Design Manager M 0436 911 399

F 02 6247 8898 Level 27, 100 Miller St, North Sydney NSW 2060 Australia emily.morrow@hindmarsh.com.au www.hindmarsh.com.au



From: Derek Tooth < Derek. Tooth@qprc.nsw.gov.au >

Sent: Monday, 8 August 2022 3:02 PM

To: Emily Morrow < <a href="mailto:Emily.Morrow@hindmarsh.com.au">Emily.Morrow@hindmarsh.com.au</a>>

Subject: Fwd: JHS: SSD Condition B17 - CSWMSP

Hi Emily

Comments from our soil team.

Sent from my iPhone

#### Derek Tooth (he/him)

Service Manager - Contracts and Projects

Queanbeyan-Palerang Regional Council Tel: (02) 6285 6117 Mob: 0408 430 739

Web: www.qprc.nsw.gov.au

Mail: PO Box 90 Queanbeyan NSW 2620



#### Begin forwarded message:

From: Natasha Abbott < Natasha. Abbott@qprc.nsw.gov.au >

Date: 8 August 2022 at 10:13:10 am AEST

To: Derek Tooth < Derek.Tooth@qprc.nsw.gov.au >

Cc: Andrew Palmer <andrew.palmer@qprc.nsw.gov.au>, Eli Ramsland

<Eli.Ramsland@gprc.nsw.gov.au>

Subject: RE: JHS: SSD Condition B17 - CSWMSP

Morning All,

Our Comments on High School CSWM

- 1. The sed fences on the boundary run downhill, so should have returns on them to collect sediment, or it will all collect in the bottom corner and overflow onto Environa Drive.
- 2. This is a concept plan so need to see the detailed SWMP before we can comment much further.
- 3. However, we need to ensure the sediment basins are properly constructed. We recently had another sediment basin collapse just up the road from this site, because it had no emergency spillway.
- 4. The EPA will be the ARA for this site, as it is a NSW Govt job.

From: Derek Tooth <

From: Emily Morrow < Emily. Morrow@hindmarsh.com.au>

Sent: Wednesday, 3 August 2022 4:58 PM

To: Derek Tooth < Derek. Tooth@qprc.nsw.gov.au>

Cc: Stefan Szyczew < <a href="mailto:Stefan.Szyczew@hindmarsh.com.au">Stefan.Szyczew@hindmarsh.com.au</a>; Mitchell Beattie

<mitchell.beattie@tsamgt.com>; Robert McKnight <Robert.McKnight@tsamgt.com>

Subject: JHS: SSD Condition B17 - CSWMSP

**[EXTERNAL] This email originated from outside of the organisation.** Please do not click links or open attachments unless you recognise the sender and know that the content is safe.

Hi Derek,

Further to our meeting yesterday and pursuant to the following SSD Condition:

#### B17: Construction Soil and Water Management Sub-Plan (CSWMSP):

The Applicant must prepare a Construction Soil and Water Management Sub-Plan (CSWMSP) and the plan must address, but not be limited to the following:

- (a) be prepared by a suitably qualified expert, in consultation with Council;
- (b) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;
- (c) describe all erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';

- (d) should stockpile remain within the proposed school site, an intrusive investigation should be undertaken to delineate the extent and quality of the stockpile (the recommendations of the Report on Limited Contamination Assessment, prepared by Douglas Partners and dated 16 September 2021 must be complied with);
- (e) provide a plan of how all construction works will be managed in a wet-weather events (i.e. storage of equipment, stabilisation of the Site);
- (f) detail all off-site flows from the site; and
- (g) describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 5-year ARI and 1 in 100-year ARI.

Please see attached the CSWMSP as discussed yesterday and subsequent statement on use flocculants.

Please provide confirmation of consultation undertaken at your soonest convenience.

Thanks, Emily



#### **Emily Morrow**

Design Manager M 0436 911 399

F 02 6247 8898 Level 27, 100 Miller St, North Sydney NSW 2060 Australia emily.morrow@hindmarsh.com.au www.hindmarsh.com.au





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3rd August 2022

Hindmarsh

By email:

< emily.morrow@hindmarsh.com.au >

Attention: Ms Emily Morrow

Dear Madame.

#### New High School Jerrabomberra – Temporary sediment basins use of flocculants Re. Our Ref. 5555

To ensure that the discharging waters from the site meet the requirements Water Quality requirements in terms of suspended solids, temporary sediment basins will be sized and detail documented in the Detailed Soil & Water Management Plan (SWMP).

These sediment basins will be sized so that the use of flocculants will not be require or use of flocculants is minimised.

The use of flocculants will be in accordance with "Landcom's Soils & Construction-Managing Urban Stormwater", the "Blue Book" Section 6 and "Best Practice Erosion & Sediment Control, Book 2 – Appendix B" IECA Australasia.

Should flocculants be used to treat the water captured onsite, information on the product and details on the proposed chemicals to be used and potential impacts will be provided to the EPA for consideration and assessment.

We trust this meets your requirements and please do not hesitate to contact ourselves if you require any further advice or clarification.

Yours faithfully

M+G Consulting

Simon Matthews











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18th August 2022

Hindmarsh

By email:

< <u>nick.valois@hindmarsh.com.au</u> >

Attention: Mr Nick Valois

Dear Sir,

#### New High School Jerrabomberra – Construction Soil and Water Management Re. Our Ref. 5555

In reply to Council's comments:

1. The sed fences on the boundary run downhill, so should have returns on them to collect sediment, or it will all collect in the bottom corner and overflow onto Environa Drive.

We have amended the extent of the sediment fence adjoining Environa Drive, as above. Amended drawing JHS-CE-2005 rev J, attached.

2. This is a concept plan so need to see the detailed SWMP before we can comment much further. (note only)

Noted.

- 3. However, we need to ensure the sediment basins are properly constructed. We recently had another sediment basin collapse just up the road from this site, because it had no emergency spillway. The sediment basin(s) will be fully designed and detailed in the detailed SWMP in accordance with the "Blue Book" and will include an emergency spillway for each basin.
- 4. The EPA will be the ARA for this site, as it is an NSW Govt job. Noted.

We trust this meets your requirements and please do not hesitate to contact ourselves if you require further clarification.

Yours faithfully M+G Consulting

Simon Matthews CPEng, NER No. 836676

Attached - Drawing JHS-CE-2005 rev J

Principals:

Simon Matthews, BE, MEngSc, CPEng, NER, Zlatko Gashi, BE, CPEng, NER, RPEQ, BPBVic, BPTas







