

SOUTHPAC CONSTRUCTIONS PTY LTD

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Project: 26 to 34 Park Road, St Leonards

**Job Name: 26-50 Park Rd, 27-47 Berry Rd, 48-54 River Rd, St
Leonards NSW 2065 (Area 22 & 23)**

REVISION HISTORY				Frequency of Review	
				<input type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input checked="" type="checkbox"/> Annually	
Document	Revision	Change Description	By	Sign	Date
CEMP	1	Preliminary Issue for Desktop Audit	Jeremy Hung Project Manager		21/11/22

All Documents are controlled in accordance with the SOUTHPAC Constructions Integrated Management System
SCHEDULE 3 (Clause Ref 3.5)

Construction Environmental Management Plan

Who shall implement	Project Manager to prepare for implementation on site
When to implement	Each Project
How to use/implement	<p>The Project Manager shall prepare and authorise for use the Construction Environmental Management Plan CEMP. In preparing the CEMP, the Project Manager must:</p> <ul style="list-style-type: none"> • insert names of SOUTHPAC staff into the chart • detail consultation process • prepare environmental risk assessment and checklist • prepare incident response flowchart

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1. Introduction

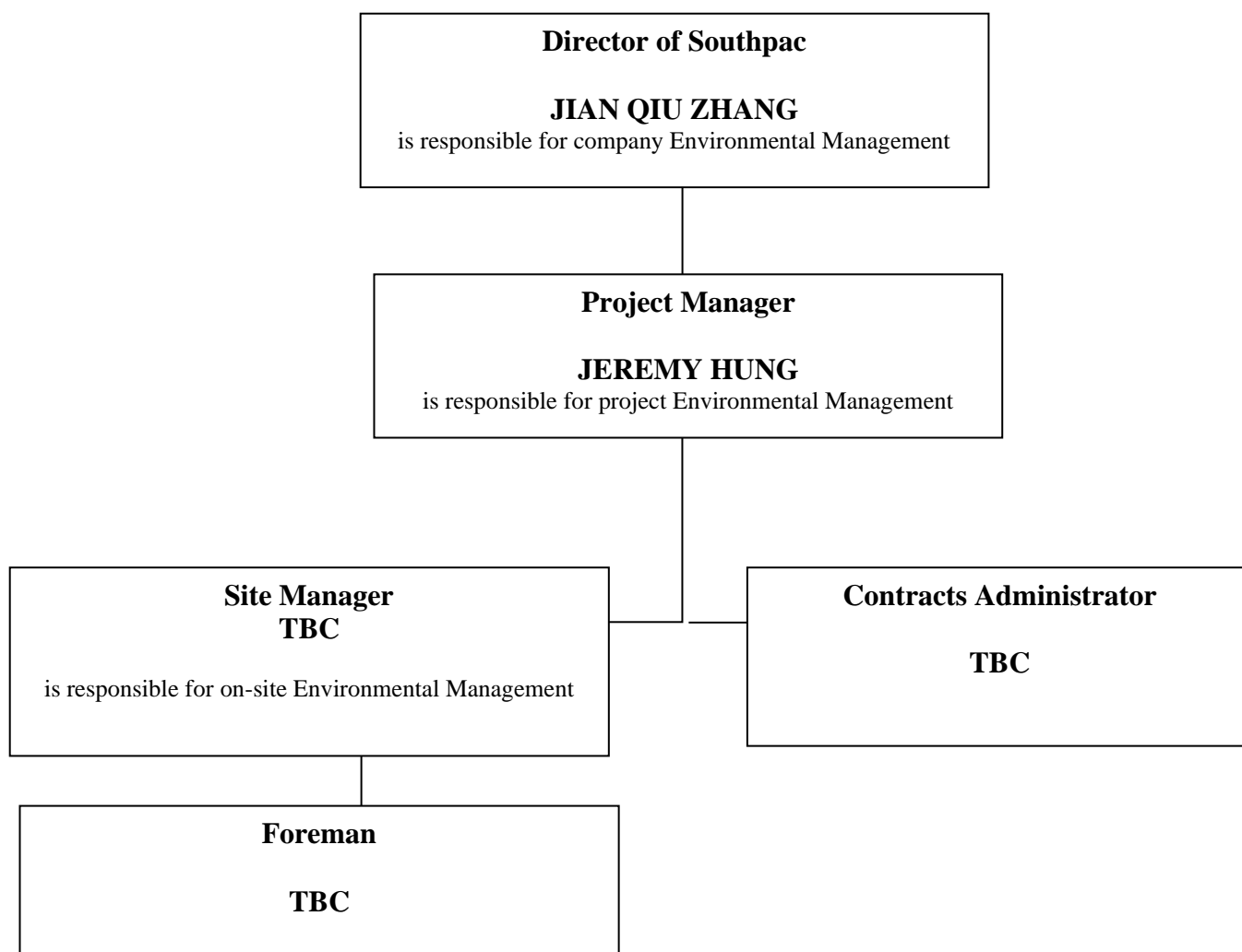
The SOUTHPAC Construction Environmental Management System has been developed for functionality and use at construction site level. The system is designed so that when implemented, will assist in achieving the objectives of the SOUTHPAC Environmental Management Policy.

The Construction Environmental Management Plan facilitates a systematic approach to site environmental management by applying the processes, checklists and forms of the SOUTHPAC EMS to achieve compliance with relevant Environmental Legislation. When implemented on site, the checklists and forms of the SOUTHPAC EMS become a record of project environmental management. We audit internally for compliance with the SOUTHPAC EMS and randomly select sites for third party surveillance auditing for compliance with ISO 14001.

The Construction Environmental Management Plan (CEMP) is developed to identify workplace environmental hazards, assess risks and implement control measures associated with activities, products and services over which SOUTHPAC have control or influence. This CEMP has also referenced the report prepared by WSP on 10 Jan 2018 - 'Contamination Assessment Report' which outlined the waste classification and acid sulphate condition to identify any localised area of contamination or suspected contamination that minimises risk to human health and the environment.

The SOUTHPAC project team is identified in the chart below. The project staff responsible for environmental management is assessed for competence, understanding and acceptance of the environmental responsibilities. Confirmation of this is provided – *refer Attachment 7*

Project Team Chart



2. Consultation and Communication

Site Induction

Before commencing work, all visitors must report to the site office for a site specific induction where employees and service providers are presented information contained in the Environmental Induction Booklet (*refer Attachment 3*). Consultation and communication processes established are communicated at the site induction. All workers are encouraged to express their views on environmental issues direct to the Site Manager.

Currency and Awareness of Environmental Information

SOUTHPAC Constructions seek Environmental advice and assistance and keep updated with changes to Environmental legislation, regulations and guidelines through the following (not limited to);

- Office of Environment and Heritage NSW
- Standards Australia Update emails etc

During toolbox talks, the Site Manager shall communicate relevant alerts, newsletters, bulletins, results of audits, corrective actions etc consistent with current activities on site. These shall be recorded using the SEF-0128-Record of Toolbox Meeting proforma.

3. Training and Competency

SOUTHPAC Staff

SOUTHPAC Constructions ensures ongoing Environmental Management and Awareness training for all employees based on skill gaps. This targets the needs of individual people and relates appropriately to their roles and responsibilities. Certificates of competency are maintained in staff personnel files and available to validate competency upon request.

Non SOUTHPAC Staff

The employer is responsible for providing their employees with the relevant training and supervision so they have the necessary competency and skills to undertake their responsibilities.

4. Hazard Identification and Risk Control

Risk Assessment

An Environmental Risk Assessment and Checklist is prepared by the Project Manager to identify environmental aspects associated with the activities to be undertaken (*refer Attachment 2*). The risk of those aspects occurring and causing environmental impact is rated, and control measures identified to reduce the risk.

The Site Manager is responsible for ensuring the control measures determined in the Environmental Risk Assessment and Checklist are implemented and remain effective. The aspects that have significant impact and assessed to be of higher risk must be given the highest order of priority.

5. Environmental Aspects

Noise

Sources can be, but not limited to, in the forms of plant/machinery, radios and various construction methods. The Site Manager will ensure noise and vibration levels meet acceptable standards and statutory requirements. Calibrated noise meters are available at SOUTHPAC to monitor noise levels.

Dust

Disturbance of ground conditions, vehicle movement, dry powdery soils and stockpiled soils have potential to generate dust throughout the site. The Project Manager will identify sources and apply appropriate controls while the Site Manager will ensure the controls are managed effectively. Special, high quality hoarding which meets environmental and infection control standards may be required in operational healthcare facilities.

Waste

The accumulation of waste resulting from demolition works, construction works, packaging, office tasks and amenities will be managed accordingly by SOUTHPAC and/or engaged subcontractors. The Site manager shall ensure facilities are provided to adequately dispose of all types of waste.

Chemicals

Various chemicals stored on site include but not limited to fuels, oil, paint and adhesives which may have an impact on the environment if not handled appropriately. The Site manager will ensure minimum quantities of chemicals are stored correctly on site and empty packaging is disposed of in accordance with state laws and regulations.

Land Contamination / Soil Contamination

Various activities may contribute to the contamination of land and soil including wash water, brick cutting and plaster. Effective controls shall be implemented to ensure contamination to soil is minimised.

Erosion and Sediment

Rain and/or water used on site over recently disturbed or bare areas of soils have potential to carry sediment off site and cause erosion impacting native vegetation and water courses. The Site Manager shall minimise the disturbance of vegetation to reduce the likelihood of sediment loss and erosion.

Flora / Fauna

Plant/machinery and various forms of construction work can impact negatively on surrounding flora and native vegetation. Protection of existing native vegetation from the impacts of construction work shall be implemented by the Site Manager.

When native fauna is encountered, it must not be disturbed. Notify the Site Manager if you see any fauna which is in the way of conducting work. Disturbing, injuring or killing native fauna without a permit may lead to prosecution.

Mud on Road

Vehicle movements after heavy rain events increase the risk of transferring mud and dirt onto public roads. The Site Manager shall put controls in place to ensure the risk of mud on roads is minimised.

Heritage Sites

Various forms of construction work including demolition can have an impact of the cultural heritage of an existing building or site. The heritage significance of the building shall be determined by the Project Manager and the Site Manager shall ensure agreed protection methods are implemented on site.

Air Pollution

Poor plant maintenance and exhaust emissions will impact the quality of the air. The Site Manager shall ensure that incoming plant is assessed and confirmed to be maintained in accordance with manufacturer's recommendations. Other sources of air contaminants shall be contained and managed appropriately.

Acid Sulphate

Any finding of soil with acid sulphate influence will have detailing procedures and management measures to be implemented in the event that contaminated materials is uncovered in any area not identified in the documents referred to the condition of the consent.

6. System Implementation and Responsibilities

Site staff have responsibility for implementation of the following site specific Environmental Management system procedures and related SOUTHPAC Integrated Management System procedures. Responsibilities listed below must be read in conjunction with the SOUTHPAC EMS responsibilities (refer Clause 3.1). The priority, order and timeframes in which the items below are implemented may differ as determined by the Project Manager to suit the project construction programme and the findings of the environmental risk assessment.

Project Specific Systems	Corporate Responsibility	Individual Responsibility
1. Include Environmental Management as a fixed agenda item of meetings	Southpac	SOUTHPAC PM, CM, CA
2. Develop the Environmental Management Plan CEMP and all attachments	Southpac	PM
3. Deliver Site Induction (including policy, controls, incident response)	Southpac	SM
4. Implement the environmental controls identified in the CEMP	SOUTHPAC and Subcontractors	SM, Subcontractor Supervisor
5. Implement Incident Response procedure (where incidents occur)	SOUTHPAC and Subcontractors	SM, Subcontractor Supervisor
6. Raise Non-conformance reports and initiate corrective and preventative action	SOUTHPAC and Subcontractors	SM, Subcontractor Supervisor
7. Communicate alerts, incidents etc via Toolbox	SOUTHPAC and	SM, Subcontractor

Meetings	Subcontractors	Supervisor
8. Update site noticeboard with material waste data sheets	Southpac	SM
9. Monitor and evaluate environmental controls (document weekly)	SOUTHPAC and Subcontractors	SM, Subcontractor Supervisor
10. Measure and evaluate the effectiveness of the CEMP	Southpac	PM

7. Incident notification, investigation and response

Incident notification

All site employees are responsible for notifying the Site Manager if they witness a pollution incident including leak, spill or escape of a substance or pollution incident causing or threatening public or property harm. In the event of an incident, the clean up process shall be managed under the direct supervision of the Site Manager.

In the event of encountering unexpected finds of contamination (i.e. the observation of offensive odours, soil discoloration, buried waste or potential asbestos containing materials) during construction, work in the area would cease until an appropriate qualified environmental consultant can advise on the need for further assessment, remediation or other action as deemed appropriate.

The Site Manager is responsible for reporting notifiable incidents to the relevant environmental authority in accordance with Attachment 4 Incident Response Flowchart.

Investigation and action taken

Procedural and/or legislative Non-conformances are identified, investigated, corrected and prevented by raising an Improvement Notice (refer Attachment 5). When raised, SOUTHPAC Site Management documents the non-conformance and recommendation on how to correct the non-conformance. The Improvement Notice recipient is required to document the action taken to rescind the notice. SOUTHPAC Site Management determines if the rectification is complete and adequate to prevent recurrence.

If the incident is of a large magnitude and poses high risk, the Site Manager shall contact and allow emergency services to manage the clean up process. Such incidents shall be investigated using SOUTHPAC OHSMS Schedule M/2 - Incident Investigation to determine how the incident occurred, how to prevent recurrence and how procedures may require revision to improve preparedness and response. The findings of an investigation are reviewed by the Construction Director, Senior Project Manager and Construction Supervisor with a view to disseminating the lessons learnt to all projects.

However in going forward to meet the authorities requirement, Geotech contamination report will be presented to the Site Auditor for review. Where necessary, the report will include a recommendation for the development of a Remediation Action Plan (RAP).

7.1 Remediation Action Plan (RAP)

A Remediation Action Plan (RAP) would be developed to establish the remediation objectives and details the strategy for sites identified as requiring remediation to make them suitable for their intended construction and future land use. The RAP will demonstrate how the risks of contamination will be reduced to within acceptable levels and prevent migration within the site as well as off-site.

Where required, RAPs for the Project will:

- Set remediation goals that ensure the remediated site will be suitable for the proposed land use and will pose no unacceptable risk to human health or to the environment;
- Document requirements to be implemented to reduce risks to workers during remediation; and
- Outline sampling requirements to validate that the remediation strategy has been successful.

RAPs will be prepared and submitted to the Site Auditor for review prior to commencement of remediation works.

7.2 Remediation Validation Report (RVR)

A remediation validation report is required to confirm that the remediation goals specified under the RAP have been achieved. The report will detail:

- Description of remedial action undertaken
- The validation results of the remediation action undertaken on the site.
- Confirmation that all regulatory requirements, where applicable, have been met.

- Identification of any residual contamination with discussion of any associated risks and an outline of control measures required.

RVRs will be submitted to the Site Auditor for review and approval.

7.3 Site Audit Report (SAR) and Site Audit Statement (SA)

The SAS cannot be prepared without completion of the SAR report which involves the review and consideration of all the steps and associated documents. A final Site Audit Statement(s) must be prepared by an accredited Site Auditor, certifying that the contaminated disturbed areas have been remediated to a standard consistent with the intended land use. The final Site Audit Statement must be submitted to the PCA and Council prior to operation of the site.

8. Attachments

Attachment	Document Title	Document Number	Revision
1	Schedule of Acts, Regulations, Standards and Codes of Practice	Attachment 1	R1
2	Risk Assessment and Checklist	Attachment 2	R1
3	Environmental Induction	Attachment 3	R1
4	Incident Response Flowchart	Attachment 4	R1
5	Improvement Notice	Attachment 5	R1
6	Confirmation of Responsibilities	Attachment 6	R1

The below table identifies the documents associated with this CEMP, however are integrated with and presented in the SOUTHPAC Occupational Health and Safety Management System.

Document Title	Document Description	Document Number	SOUTHPAC OHS / IMS Reference
Skills Register	Register of training /competency	HR-F-007	WHS HR (Register)
Post Tender Interview	Contract document detailing environmental management obligations of all subcontractors engaged	NA	
Incident Investigation	Form completed for the purposes of investigating incidents	SE-F-007	WHS SE (Forms)
Site Induction Record	Form completed by all inductees detailing personal and employment details	SE-F-025	WHS SE (Forms)
Record of Consultation	Form used to record consultation / communication	SE-F-012	WHS SE (Forms)

Attachment 1

Schedule of Acts, Regulations, Standards and Codes of Practice

ATTACHMENT 1

Schedule of Acts, Regulations, Standards and Codes of Practice

Who shall implement	Construction Director/Secretary All Project Staff	- Maintain currency of documentation - Ensure availability of publications for the use on site
When to implement	Bi Annually As required	- Maintain Currency - Provide documentation
How to use/implement	The list of publications is available to confirming legal obligations / best practice controls / guidance material for works on site. All <i>Commonwealth</i> legislation applies across Australia. All other legislation is relevant to the state of NSW.	

Publication	Source
Acts <u>Environment Protection</u> Protection of the Environment Administration Act 1991 National Environment Protection Council (NSW) Act 1995 Protection of the Environment Operations Act 1997 Smoke Free Environment Act 2000 Contaminated Land Management Act 1997 <u>Planning and Environmental Impact Assessment</u> Waste Avoidance and Resource Recovery Act 2001 Commonwealth Environment Protection (Impact of Proposals) Act 1974 Environment Protection and Biodiversity Conservation Act 1999 (<i>Commonwealth</i>) <u>Heritage and Other Land Protection Legislation</u> National Parks and Wildlife Act 1974 <u>Other Acts with Potential to Affect Construction Activities</u> Health Administration Act 1982 Road and Rail Transport (Dangerous Goods) Act 1997 Water Act 2007 (<i>Commonwealth</i>)	NSW Legislation and Parliamentary Document Website http://www.legislation.nsw.gov.au/ Search using title OR Commonwealth Legislation Website http://www.comlaw.gov.au/Home Search using title

Publication	Source
<p>Regulations</p> <p>Protection of the Environment Administration Regulation 2007</p> <p>Protection of the Environment Operations (Clean Air) Regulation 2010</p> <p>Protection of the Environment Operations (General) Regulation 2009</p> <p>Protection of the Environment Operations (Noise Control) Regulation 2008</p> <p>Protection of the Environment Operations (Waste) Regulation 2005</p> <p>Smoke-Free Environment Regulations 2007</p>	<p>NSW Legislation and Parliamentary Document Website</p> <p>http://www.legislation.nsw.gov.au/</p> <p>Search using title</p>
<p>Office of Environment and Heritage Publications and Guidelines</p> <p>Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW</p> <p>Managing Urban Stormwater</p> <ul style="list-style-type: none"> - Harvesting and Re-Use - Soil and Construction <p>Environmental Management on the Urban Fringe</p> <ul style="list-style-type: none"> - Economic incentives for environmental management - Property management plan - Environmental assessment <p>Storing and Handling Liquids: Environmental Protection - Participants Manual</p> <p>Interim Construction Noise Guideline</p> <p><i>Review of alternatives to 'beeper alarms' for construction equipment</i></p> <p>Assessing Vibration: A Technical Guideline</p> <p>Land Contamination: What are my Responsibilities? (Website only)</p>	<p>NSW Government – Office of Environment and Heritage Website</p> <p>http://www.environment.nsw.gov.au/</p> <p>Search using title</p> <p>http://www.environment.nsw.gov.au/clm/index.htm</p>
<p>Other Standards and Guidelines</p> <p>Biodiversity</p> <p>The National Strategy for the Conservation of Australia's Biological Diversity 1996</p> <p>The NSW Biodiversity DRAFT Strategy</p>	<p>http://www.environment.gov.au/biodiversity/publications/strategy/index.html</p> <p>http://www.environment.nsw.gov.au/biodiversity/nswbiostrategy.htm</p>

Attachment 2

Risk Assessment and Checklist

ATTACHMENT 2 - ENVIRONMENTAL RISK ASSESSMENT and CHECKLIST				ASSESS RISK RATING IN ACCORDANCE WITH THE BELOW RISK CLASSIFICATION TABLE Determine the RATING for each aspect (including any site specific) after consideration of the standard risk controls.					
Job No. 26 Park Rd		Job Title: 28 to 34 Park Road, St Leonards		After implementation of the standard risk controls, is there: • Potential for pollution resulting in long term damage • Potential for pollution that cannot be mitigated immediately • A specific contract requirement • A specific permit requirement • A specific authority requirement			H - HIGH	Additional risk controls required. Frequency of monitoring to be based on level of risk	
Prepared By : Jeremy Hung		Position : Project Manager							
Date of Review		Risk Review undertaken by (list names / company); Jeremy in consultation with Harry Wan		• Minimal potential for public or other complaint • Minimal potential for pollution (mitigated with minor damage)			M - MEDIUM	Monitor weekly to ensure controls are effective (may require increased monitoring based on inspections)	
Review Number 1				• No potential for public or other complaints • No potential for a legal breach • No specific contract requirement • No specific permit requirement • No specific authority requirement			L - LOW	No additional risk controls. Monitor weekly	
No	ASPECTS	SOURCE	STANDARD RISK CONTROLS	Residual Risk Rating (H, M, L)	Additional Risk Controls Required (where risk rating is H)	No. of Compliant Controls Observed	No. of Non-Compliant Controls Observed	Minor Actions Required [Improvement Notice (Attachment 5) to be raised where significant Non-compliance is observed]	Initial and Date when action Completed
1	Noise – esp. adjacent to the Childcare centre	Plant / Machinery Construction Methods Radios	<ul style="list-style-type: none"> Plant / machinery maintained in accordance with manufacturer recommendations Silencers placed on large compressors / generators Comply with council work hours Limit volume of radios Utilise prefabricated materials Provide barriers on capping beam to minimise the effect of noise 	H					
2	Dust – esp. adjacent to the Childcare centre	Ground disturbance Vehicle Movement Dry powdery soils	<ul style="list-style-type: none"> Protect areas of vegetation and minimise clearing / disturbance Cover exposed ground with mulch or other suitable material Restrict vehicle movements Dampen surfaces with water carts and provide water sprinkler along the adjacent fence Install road base and fully compact the ground to avoid minimise flow of dust Cover soil stockpiles Install hoarding which meets infection control standards installed for operational healthcare facilities 	H					
3	Waste	Demolition Construction Works Packaging Office Amenities	<ul style="list-style-type: none"> Utilise separate recycle bins for paper, steel etc (space permitting on site) Use bin contractors who sort and recycle construction waste Utilise existing client facilities for domestic recyclables (paper, cans etc) Recycle demolished materials wherever possible Place lids on domestic waste bins for odour and vermin control 	L					
4	Chemicals	Fuel Oil Paint Adhesives	<ul style="list-style-type: none"> No bulk storage of fuel / oil on site (fuel tankers to visit site as required) Paints, adhesives stored on site at minimum quantities in vented containers/rooms All storage of chemicals shall comply with the Material Safety Data Sheet Major servicing of plant e.g. where large quantities of oil requires changing shall be undertaken off site 	L					
5	Contamination (from slurry / wash water) & Soil Contamination	Paint Plaster Concrete Brick / Paver cutting	<ul style="list-style-type: none"> Use paint wash trough. Settled solids should be removed by an appropriate waste disposal company Designate a washing up and brick cutting area away from stormwater drains. Build an earth bund to contain wash water from concrete, plaster, brick cutting Designate a washing up and brick cutting area away from stormwater drains. Build an earth bund to contain wash water from concrete, plaster, brick cutting Documented evidence of contaminated soil removed from site is accepted by landfill facility 	L					
6	Erosion and Sediment	Disturbed / cleared soils Rain events	<ul style="list-style-type: none"> Protect and maintain natural vegetation and minimise clearing / disturbance Connect downpipes to stormwater drainage as soon as possible or pipe roof water onto grassed areas Install sediment fences close to the site boundary and drains where surface water may carry sediment off site Place gravel sausages across pit openings 	L					
7	Flora / Fauna	Plant / Machinery Construction Works	<ul style="list-style-type: none"> Trees, shrubs etc is protected by flagging, roped off i.e. "No Go Zone" Vehicles parked outside of tree root zone to avoid damage No entry to fenced off areas, no pets on sites, stick to access roads, and notify Site Manager of any fauna 	L					
8	Mud on Road	Muddy site Vehicle Movements Significant Rain Event	<ul style="list-style-type: none"> Crushed rock placed in areas of vehicle movement Restrict vehicle movements on un-vegetated/exposed ground Cover exposed trafficked ground with mulch or other suitable material Protect areas of vegetation and minimise clearing / disturbance Remove water from site by connecting downpipes to stormwater drainage Install rumble strips at site exit to promote cleaning mud off vehicle tyres 	L					
9	Air Pollution	Plant / Machinery	<ul style="list-style-type: none"> Plant / machinery maintained in accordance with manufacturer recommendations Plant / machinery exhaust emissions monitored for smoke (should not observe continuous smoke for longer than 10 seconds) Regular maintenance of the trucks and machinery use 	M					
10	Unexpected Finds	Undisturbed spoil/fill	<ul style="list-style-type: none"> Cease work, isolate from workers and public with barriers and star pickets with appropriate coverings. Contact environmental consultant for further advise 	L					
Total Compliant and Non-compliant Observed								This Week	
								Since Project Started	

Attachment 3

Environmental Induction





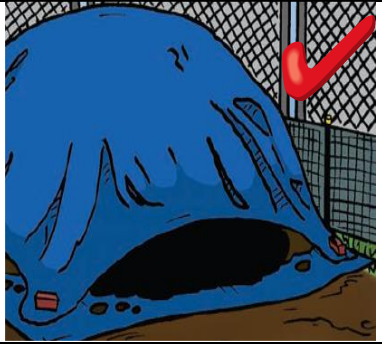
ATTACHMENT 3

Environmental Induction Booklet



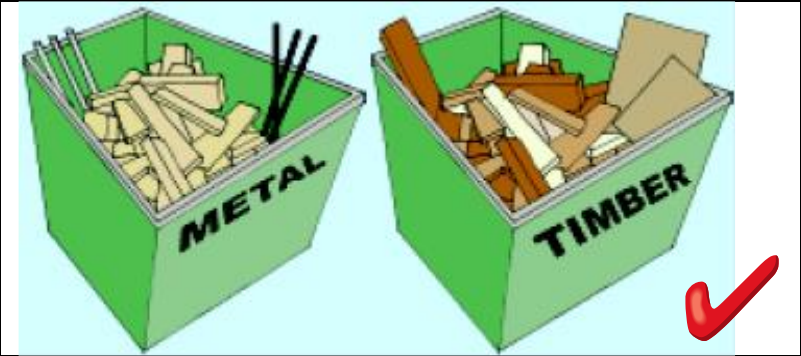
Environment Policy	All personnel (SOUTHPAC Constructions and Subcontractors) must be committed to achieving the objectives of Southpac's Environment Policy. The policy is posted on the noticeboard or induction room for all inductees to read
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Incident Response	All site Employees are responsible for notifying the Site Manager if they witness a pollution incident including leak, spill escape of a substance or pollution incident causing or threatening public or property harm
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Waste Data Sheets	The Site Noticeboard is updated as required with Material Waste Data Sheets (good practice environmental control information) for all to read
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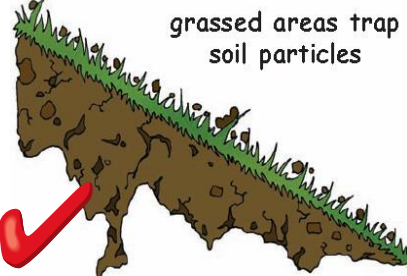

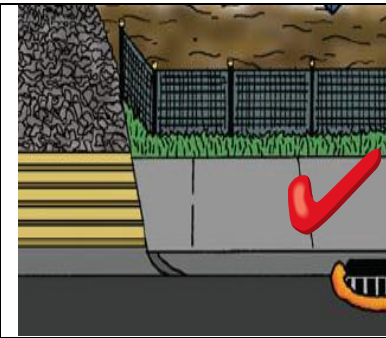
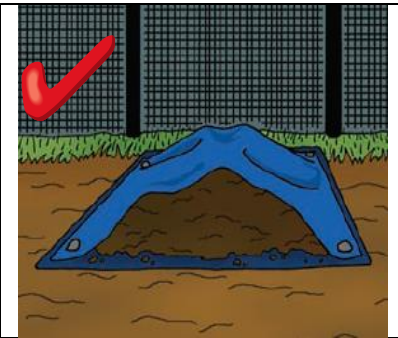
NOISE	Source <ul style="list-style-type: none"> Plant / Machinery Construction Methods Radios Unnecessary use of tools
	Risk Controls <ul style="list-style-type: none"> Plant /machinery maintained in accordance with manufacturer recommendations Silencers placed on large compressors / generators Comply with council work hours Limit volume of radios Utilise prefabricated materials Install barriers on capping beam and work in section away from the childcare center during the respite hours
DUST	Source <ul style="list-style-type: none"> Ground disturbance Vehicle Movement Dry powdery soils Cutting Infection Control
	Risk Controls <ul style="list-style-type: none"> Protect areas of vegetation and minimise clearing / disturbance Cover exposed ground with mulch or other suitable material Restrict vehicle movements Dampen surfaces with water carts and provide water sprinkler along the adjacent fence Install road base and fully compact the ground to avoid minimise flow of dust Cover soil stockpiles Install hoarding which meets infection control standards installed for operational healthcare facilities
	 

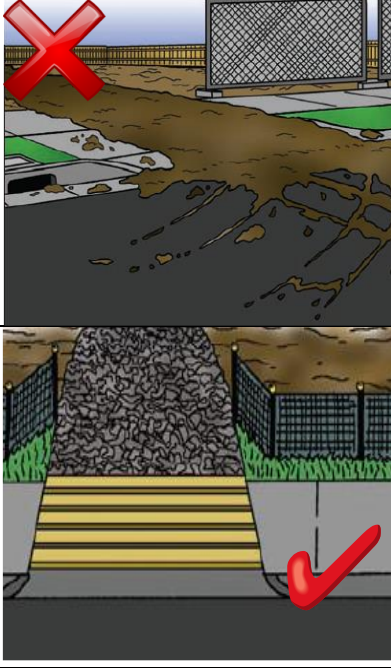
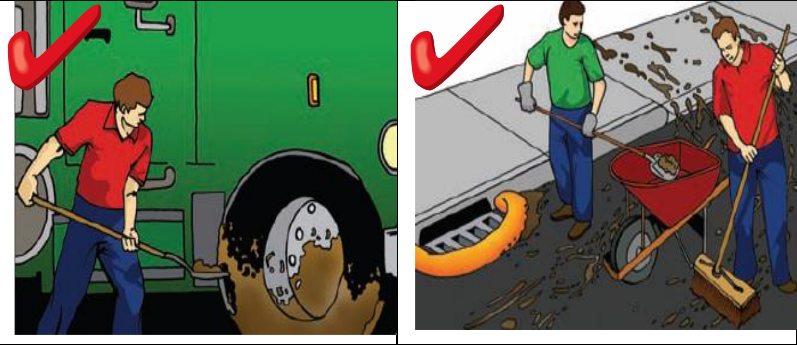


	Source
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<p>WASTE</p>	<ul style="list-style-type: none"> • Demolition • Construction Works • Packaging • Office • Amenities
	<p>Risk Controls</p> <ul style="list-style-type: none"> • Utilise separate recycle bins for paper, steel etc (space permitting on site) • Use bin contractors who sort and recycle construction waste • Utilise existing client facilities for domestic recyclables (paper, cans etc) • Recycle demolished materials wherever possible • Place lids on domestic waste bins for odour and vermin control
	

<p>CHEMICALS</p>	<p>Source</p> <ul style="list-style-type: none"> • Fuel • Oil • Paint • Adhesives
	<p>Risk Controls</p> <ul style="list-style-type: none"> • No bulk storage of fuel / oil on site (fuel tankers to visit site as required) • Paints, adhesives stored on site at minimum quantities in vented containers/rooms • All storage of chemicals shall comply with the Material Safety Data Sheet • Major servicing of plant e.g. where large quantities of oil requires changing shall be undertaken off site
	

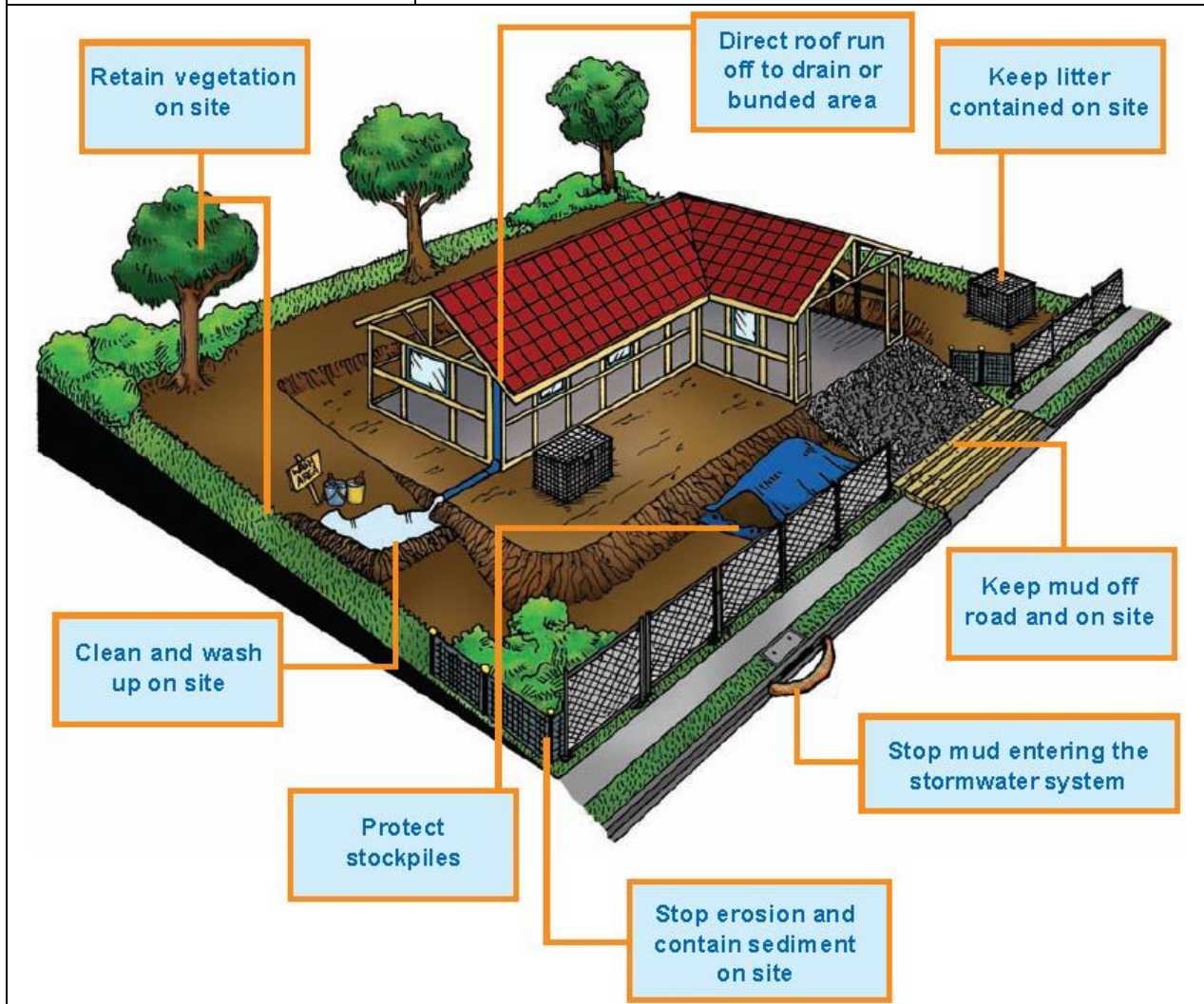
CONTAMINATION (FROM SLURRY/ WASHWATER)	Source <ul style="list-style-type: none"> • Paint • Plaster • Concrete • Brick / Tile / Paver cutting
 	Risk Controls <ul style="list-style-type: none"> • Use paint wash trough. Settled solids should be removed by an appropriate waste disposal company • Designate a washing up and brick cutting area away from stormwater drains. Build an earth bund to contain wash water from concrete, plaster, brick cutting • Designate a washing up and brick cutting area away from stormwater drains. Build an earth bund to contain wash water from concrete, plaster, brick cutting • Documented evidence of contaminated soil removed from site is accepted by landfill facility <div data-bbox="624 629 1011 943">  </div> <div data-bbox="1027 629 1426 943">  </div>

EROSION AND SEDIMENT	Source <ul style="list-style-type: none"> • Disturbed / cleared soils • Rain events
 <p>grassed areas trap soil particles</p>  <p>ROOF WATER connected to storm water or piped onto grassed area</p>	Risk Controls <ul style="list-style-type: none"> • Protect and maintain natural vegetation and minimise clearing / disturbance • Connect downpipes to stormwater drainage as soon as possible or pipe roof water onto grassed areas • Install sediment fences close to the site boundary and drains where surface water may carry sediment off site • Place gravel sausages across pit openings <div data-bbox="624 1480 1011 1816">  </div> <div data-bbox="1027 1480 1426 1816">  </div>

<p>MUD ON ROAD</p>	<p>Source</p> <ul style="list-style-type: none"> • Muddy site • Vehicle Movements • Significant Rain Event
	<p>Risk Controls</p> <ul style="list-style-type: none"> • Crushed rock placed in areas of vehicle movement • Restrict vehicle movements on un-vegetated/exposed ground • Cover exposed trafficked ground with mulch or other suitable material • Protect areas of vegetation and minimise clearing / disturbance • Remove water from site by connecting downpipes to stormwater drainage • Install rumble strips at site exit to promote cleaning mud off vehicle tyres 
<p>FLORA / FAUNA</p>	<p>Source</p> <ul style="list-style-type: none"> • Plant / Machinery • Construction Works
	<p>Risk Controls</p> <ul style="list-style-type: none"> • Trees, shrubs etc is protected by flagging, roped off i.e. "No Go Zone" • Vehicles parked outside of tree root zone to avoid damage • No entry to fenced off areas, no pets on sites, stick to access roads, and notify Site Manager of any fauna
<p>AIR POLLUTION</p>	<p>Source</p> <ul style="list-style-type: none"> • Plant / Machinery
	<p>Risk Controls</p> <ul style="list-style-type: none"> • Plant / machinery maintained in accordance with manufacturer recommendations • Plant / machinery exhaust emissions monitored for smoke (should not observe continuous smoke for longer than 10 seconds)

SUMMARY

Risk Controls



Attachment 4

Incident Response Flowchart

ATTACHMENT 4

Incident Response

Organisations operating under the Office of Environment and Heritage (OEH) issued environmental licences are required to notify pollution incidents by calling the OEH Pollution Watch Line.

Pollution incident means 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.

- Protection of the Environment Operations Act 1997 (links are to the [NSW legislation](#) website):
 - Section 116: It is an offence to willfully or negligently cause any substance to leak, spill in a manner that harms or is likely to harm the environment.
 - Section 120: It is illegal to pollute or cause or permit pollution of waters.
 - Section 124-126 Businesses must maintain and operate equipment and deal with materials in a proper and efficient manner to prevent air pollution at all times.
 - Section 139 and 140: It is an offence to allow noise from your premises to be generated as a result of the failure to maintain or operate machinery.
 - Section 142: It is an offence to pollute land
 - section 147: Meaning of material harm to the environment
 - section 148: Pollution incidents causing or threatening material harm to the environment
 - section 149: Manner and form of notification
 - section 150: Relevant information to be given
 - section 151: Incidents not required to be reported
 - section 152: Offence for breaching duty to notify pollution incidents
 - section 153: Incriminating information

The OEH relies on everyone in the community to report pollution. The community is encouraged to call the OEH Pollution Watch Line when the following is noticed:

- Smoke or odours from an industry or business
- Spills or slicks in waterways
- Illegal dumping of wastes
- Noise from a factory or industrial complex
- Littering
- Smokey Vehicles

OEH POLLUTION WATCH LINE

Metropolitan – 131 555 (24 hours)

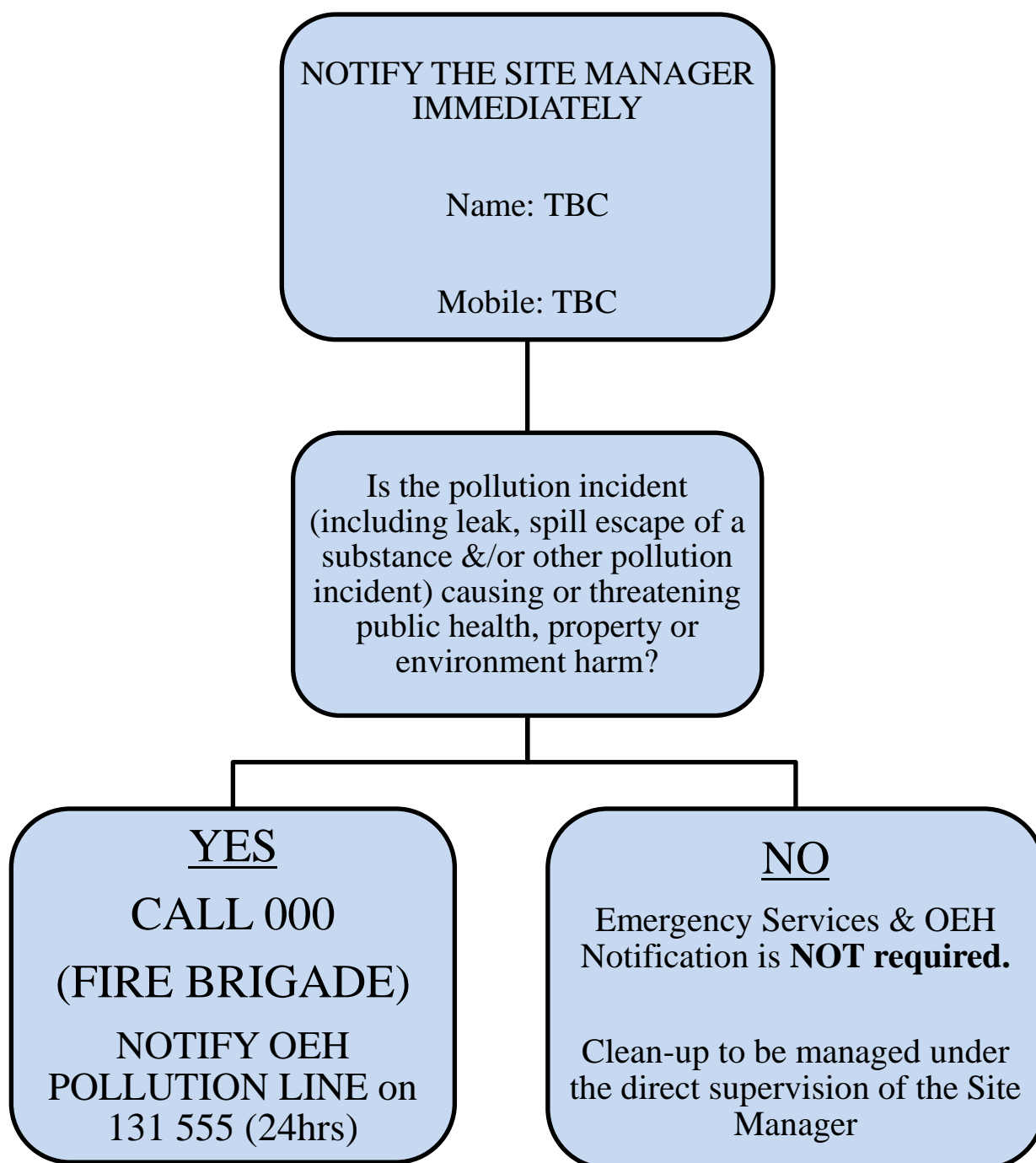
All site Employees are responsible for notifying the Site Manager if they witness a pollution incident including leak, spill escape of a substance or pollution incident causing or threatening public or property harm. When notified, the Site Manager shall implement the attached Incident Response Flowchart.

ATTACHMENT 4

Incident Response

In the event of an ENVIRONMENTAL INCIDENT

(all types of incidents) notify the Site Manager



Attachment 5

Improvement Notice

ATTACHMENT 5

Improvement Notice

This notice is issued as a consequence of your failure to maintain adequate environmental controls during the performance of your contract works

PROJECT 26 Park Road, St Leonards	PROJECT NO. 26 Park Rd
SITE MANAGER	DATE

TO: FROM:
Company Name Company Name

<input type="checkbox"/> Noise	<input type="checkbox"/> Dust
<input type="checkbox"/> Waste	<input type="checkbox"/> Chemicals
<input type="checkbox"/> Contamination (slurry, washwater, oil)	<input type="checkbox"/> Erosion and Sediment
<input type="checkbox"/> Flora / Fauna	<input type="checkbox"/> Mud on road
<input type="checkbox"/> Heritage	<input type="checkbox"/> Air Pollution
<input type="checkbox"/> Other	

Where this Improvement Notice is issued as a result of an environmental incident,
IDENTIFY ACTION TAKEN TO CLEAN UP

ACTION TAKEN TO ELIMINATE THE CAUSE (i.e re-induction, improved control measure etc)

VERIFICATION OF ACTION TAKEN (SOUTHPAC Site Management use only)

☐ Action verified as completed ☐ Action inadequate (describe why inadequate)

.....
.....

Signed: Date:
SOUTHPAC Representative

In the event the company issued this notice fails to action, all costs incurred to undertake these works will be back-charged.

☐ Labour to Rectify

men x

hours =

Total Hours

Distribution:

- ☐ Site File
☐ Project Manager
☐ Subcontractor

Attachment 6

Confirmation of Responsibilities

ATTACHMENT 6

Confirmation of Responsibilities

The project staff responsible for management of environmental management is assessed for competence, understanding and acceptance of their environmental responsibilities. Confirmation of this is provided below.

Each individual shall complete the table to verify the items listed below. Write either Yes or No (alongside the item in your column only) sign and date.

Item 1 I understand my responsibilities identified in the SOUTHPAC IMS (revision R1)

Item 2 I understand my responsibilities identified in the Construction Environmental Management Plan (revision 1)

Item 3 I was consulted and given opportunity for input in the development of this CEMP

Item 4 I am competent to carry out my responsibilities identified in the SOUTHPAC IMS and this CEMP

Item 5 I will carry out my responsibilities identified in the SOUTHPAC IMS and this CEMP

	Project Manager	Contracts Administrator	Site Manager	Foreman	Safety Officer	Other
Name	Jeremy Hung	TBC	TBC	TBC	TBC	
Item 1 (yes/ no)						
Item 2 (yes/ no)						
Item 3 (yes/ no)						
Item 4 (yes/ no)						
Item 5 (yes/ no)						
Sign						
Date						

ATTACHMENT 7

Layout Plan