



**FRASERS PROPERTY INDUSTRIAL  
CONSTRUCTIONS  
PTY LTD**

**CONSTRUCTION ENVIRONMENTAL  
MANAGEMENT PLAN**

**PROPOSED LOT 2 SPECULATIVE  
FACILITY**

**CORNER OF  
HORSLEY DRIVE & COWPASTURE  
ROAD, HORSLEY PARK NSW**

**1<sup>st</sup> of August 2016 Rev.2**

## **1. INTRODUCTION**

**1.1. Objective of the Construction Environmental Management Plan**

**1.2. Responsibility for Implementation**

**1.3. Site Contact Details**

## **2. DESCRIPTION OF CONSTRUCTION WORKS**

**2.1. Location and Type of Construction**

**2.2. Key Activities of the Construction Works**

**2.3. Staging of Construction Works**

**2.4. Responsibility**

**2.5. Extent of Works**

**2.6. Site Operation Times**

## **3. REGULATORY REQUIREMENTS**

## **4. ASSESSMENT OF ENVIRONMENTAL RISK**

**4.1. Potential of Environmental Impact**

**4.2. Evaluation of Environmental Risks**

## **5. ENVIRONMENTAL MANAGEMENT PROGRAM**

**5.1. Treatment methods and inspection schedules**

**5.2. Control Method Specifications**

**5.2.1. Diversion Drains / Banks**

**5.2.2. Recycle of Waste.**

**5.2.3. Table Drains**

**5.2.4. Dust Management & Sediment Control Barrier**

**5.2.5. Velocity Controls**

**5.2.6. Stockpiles**

**5.2.7. De-watering of Site**

**5.2.8. Noise / Vibration / Fumes**

**5.2.9. Storage of Fuels / Chemicals**

**5.2.10. Shaker Grids**

**5.2.11. Rubbish Bins**

**5.2.12. Asbestos Removal**

**5.2.13. Management of Ozone Depleting Substances**

**5.3. Training of Personnel**

**5.4. Contingency Plans**

**5.5. Reporting of Environmental Incidents and Emergencies**

**5.6. Maintenance, Audit and Inspection Program**

**5.7. Culture Heritage and Contaminated Soil**

**5.8. Landscaping**

**5.9. Community Consultation & Complaints Handling**

**Appendix 1 - Erosion & Sediment Control Plan**

## 1. INTRODUCTION

### 1.1 Objective of the Construction Environmental Management Plan

The objective of this Construction Environmental Management Plan is to minimize the adverse impact of construction activities on the environment.

This objective will be achieved by identifying possible environmental risks, setting up systems to reduce the risk, and managing and maintaining the systems throughout the project to ensure correct function of the Control Systems.

The Site location is on Lot 2 within the Horsley Drive Business Park, located at the corner of Horsley Drive & Cowpasture Road, Horsley Park NSW

| Position               | Name           | Signature | Date |
|------------------------|----------------|-----------|------|
| Project Manager        | Naiem Teghlobi |           |      |
| Contract Administrator | Jacob Aboutaka |           |      |
| Site Manager           | John Simmons   |           |      |
| Foreman                | N/A            |           |      |
| Foreman                | N/A            |           |      |
| Leading Hand           | Jack Lambert   |           |      |
| Leading Hand           | N/A            |           |      |
| Construction Worker    | N/A            |           |      |
| Safety Representative  | Mitchell Watts |           |      |

## **1.2 Responsibility for Implementation**

Frasers Property Industrial Constructions Pty Ltd as the builder will be responsible to implement the Control systems and procedures outlined in this Construction Environmental Management Plan.

All other subcontractors will be briefed on the plan and will be required to adhere to the systems and procedures outlined. If a section of work does not comply with this plan, rectification of that area will be made a priority until such time as it complies with systems and procedures of this plan.

## **1.3 Site Contact Details and responsibilities within CEMP**

Frasers Property Industrial Constructions as the builder are the principal contractor.

The Project Manager is Naiem Teghlobi & he can be contacted on 0417 665 167.

The Site Manager is John Simmons and he can be contacted on 0414 829 518.

We are currently awaiting confirmation of telecommunication line connection for our site amenities, phone and fax services. We will forward details to your department once arranged.

The procedure in an emergency is as follows:

For any emergencies requiring ambulance, fire or police please contact 000.

Other staff can be contacted after notifying the emergency services.

Other contacts include:

Frasers Property HSE Manager: Gary Windred - 0407 481 843

Frasers Property Construction Manager: Greg Donaghey - 0438 255 348

## **2. DESCRIPTION OF CONSTRUCTION WORKS**

### **2.1 Location and Type of Construction**

The Site location is on Lot 2 within the Horsley Drive Business Park, located at the corner of Horsley Drive & Cowpasture Road, Horsley Park NSW

The proposed development includes two (2) warehouses including a total of two (2) offices, loading docks and car parking. The specified approximate areas for the proposal are as follows:

- Warehouse 1 – 8,375sqm GFA;  
Office – 500sqm GFA;  
Ground Floor Entry – 50sqm;
- Warehouse 2 – 9,325sqm GFA;  
Office – 500sqm;  
Ground Floor Entry – 50sqm;  
Total Building Area = 18,800sqm.  
The majority of materials used in the construction of the building are prefabricated steel and concrete elements.

### **2.2 Key Activities of the Construction Works**

Following is a list of key activities undertaken in the construction of the proposed development.

- Initial site set-up.
- Site works / bulk earthworks
- Footings
- Underground services (drainage, fire service, sewer, water, electricity, telephone, data)
- Concrete hard stand
- Structural steel
- Roof and wall cladding
- Reinforced concrete ground slabs and external paving
- Mechanical, electrical and hydraulic services
- Finishes and fixtures to the office and warehouse
- Landscaping

## **2.3 Staging of Construction Works**

### **Stage 1 – 12 week duration**

- Foundations
- Structural Steel
- Precast
- Roofing
- Office Suspended Slab
- External Wall Cladding

### **Stage 2 – 12 week duration**

- Services Rough In
- PIR Walls & Ceilings
- Office Fit out

### **Stage 3 – 12 week duration**

- Office fit out
- External pavement & carpark prep
- Internal concrete slab
- Plantroom fit out
- Services
- Equipment installation such as dock levellers, solar, water heaters etc.

### **Stage 4 – 12 week duration**

- Office furniture & joinery
- External concrete works
- Carpark construction
- Landscaping
- Services fit out
- Services commissioning

### **Stage 5 – 8 week duration**

- Defects
- Handover

## **2.4 Responsibility**

All of the above works will be carried out under the supervision and instruction of Frasers Property Industrial Constructions Pty Ltd acting as Head Contractor. The works will be staged and generally in the order of the key activities as outlined above.

The Head Contractor will be responsible for the implementation and maintenance of all environmental management controls. Monitoring of individual tasks will be conducted by the Project Manager or the Site Manager as listed in the Risk Matrix. They can occur on a daily to monthly basis, depending on the item.

## **2.5 Extent of Works**

The site is approximately 34,538 m<sup>2</sup>.

Building and external paving will cover approximately 32,811 m<sup>2</sup>.

The works include stabilisation to all the batters as part of the landscaping.

## **2.6 Site Operation Times**

The site will operate through a six day week.

Operating times are as follows:

Monday to Friday: 7.00 am – 6.00 pm

Saturday: 8.00 am – 1.00 pm

Note that the site will open earlier and close later than dates listed above where required.

## **3. REGULATORY REQUIREMENTS**

Refer to Table 1, appended to this Construction Environmental Management Plan. Following is a list of the documents that apply to this Construction Environmental Management Plan:

- Protection of the Environment Operations Act 1997 (POEO Act)
- AS/NZS ISO 14001:2004
- AS/NZS ISO 14004:2004
- EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999
- State Environment Protection Act 1970 and Regulations
- NSW Environmental Management System Guidelines, 2009.

### **Ground Water**

- NSW Ground water quality protection policy

### **Ambient Air Quality**

- Protection of the Environment Operations Act 1997 (POEO Act)
- Protection of the environment operations (Clean Air) Regulation 2010

### **Noise**

- POEO (Noise Control) Regulation 2008

### **Vehicle Air and Noise Emissions**

- POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines

### **Impacts on the Ozone Layer**

- Ozone Protection Act 1989

### **National Pollutant Inventory**

- Protection of the environment operations (general) regulation 2009

### **Trade Waste (Discharge to Sewer)**

- NSW Liquid Trade waste regulations 2009



### **Occupational Health and Safety**

- National Work Health & Safety Act & Regulation 2011
- Storage & Handling of Dangerous goods, Industry Code of Practice
- Environmentally Hazardous Chemicals Act 1985
- Work Cover, Managing Risks of Hazardous Chemicals in the Workplace code of practice

### **Pesticides**

- Pesticides Act 1999

### **Threatened Species (in conjunction with commonwealth EPBC Act)**

- Threatened Species Conservation Act 1995

### **Indigenous Heritage**

- Heritage Act 1997

## **4. ASSESSMENT OF ENVIRONMENTAL RISK**

### **4.1 Potential of Environmental Impact**

The following is a list of activities that have the potential to impact upon the environment.

- Site works comprising of:
  - Site strip and stockpiling of topsoil
  - Cut to fill earthworks
  - Creation of batters within and adjacent to the site
- Installation of underground services including:
  - Storm water drainage
  - Sewerage system
- De-watering of the worksite
- Water runoff from disturbed ground
- Noise and vibration / fumes from machinery
- Creation of dust
- Storage of fuel, oil and other chemicals
- Mud and dirt on road
- Rubbish / litter
- Laying of concrete and concrete cutting

**Table 1 - Consequence Table**

| Consequence   | Environment                                            |
|---------------|--------------------------------------------------------|
| Catastrophic  | Irreversible or long term changes (recovery 5 years +) |
| Major         | Major impact (recovery 1-5 years)                      |
| Moderate      | Moderate impact (recovery up to one year)              |
| Minor         | Minor impact (no detectable change to communities)     |
| Insignificant | No detectable harm (within natural variability)        |

**Table 2 - Likelihood Table**

| Likelihood | Descriptor                   |
|------------|------------------------------|
| High       | Greater than 70% Probability |
| Medium     | 40-70% Probability           |
| Low        | 20-40% Probability           |
| Very Low   | Less than 20% Probability    |

**Table 3 - Ratings Matrix**

|                                                                                  |                            |                    |                       |                    |                           |
|----------------------------------------------------------------------------------|----------------------------|--------------------|-----------------------|--------------------|---------------------------|
| High<br>(grade 3)<br>(Greater than 70 %<br>probability)                          | M                          | S                  | H                     | H                  | H                         |
| Medium<br>(grade 2)<br>(40%-70% probability)                                     | M                          | M                  | S                     | H                  | H                         |
| Low<br>(grade 1)<br>(20%-40% probability)                                        | M                          | M                  | S                     | S                  | H                         |
| Very Low<br>(grade 0.5)<br>(less than 20%<br>probability)                        | L                          | M                  | M                     | S                  | S                         |
| (12 month)<br>Potential<br><br>Incidence<br>Rate <sup>1</sup><br><br>Consequence | Insignificant<br>(grade 1) | Minor<br>(grade 2) | Moderate<br>(grade 3) | Major<br>(grade 4) | Catastrophic<br>(grade 5) |

**Significance**

L = Low Significance = 5

M = Moderate Significance = 4

S = Significant Effect = 3

H = High Significance = 2

C = Critical Significance = 1

Refer to letters for Table 3 ratings Matrix

Refer to numbers for 4.2 Evaluation of Environmental Risks

Assessment based on experienced site staff judgement

## 4.2 Evaluation of Environmental Risks

| Activity            | Aspect                             | Impact                                         | Risk Level* | Objectives                                                                                             | Targets                                                              | Environmental Control (ref to procedures/ guidelines)                                                          | Applicable Legislation                                                                                                 |
|---------------------|------------------------------------|------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Initial site set-up | Dust Noise and Vibration Emissions | Noise and Vibration emissions released         | 5           | To minimise the impact of noise and Vibration                                                          | Use machinery within hours described in DA                           | Erect and maintain construction site signage                                                                   | Protection of the Environment Operations Act 1997 (POEO Act)                                                           |
|                     |                                    | Dust released to adjoining properties          | 5           | Have boundary fences clad with shade cloth or similar product to suppress dust from escaping the site. |                                                                      | Implementation of traffic management plan                                                                      | AS/NZS ISO 14001:2004<br>AS/NZS ISO 14004:2004                                                                         |
|                     |                                    | Lower air quality                              | 3           |                                                                                                        | Ensure all dust minimisation is in place before clearing takes place | Display construction site signage                                                                              | EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999                                                  |
|                     | Air Quality,                       |                                                |             |                                                                                                        |                                                                      | Maintain temporary fence                                                                                       | State Environment Protection Act 1970 and Regulations                                                                  |
|                     |                                    |                                                |             |                                                                                                        |                                                                      | All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.   | NSW Environmental Management System Guidelines, 2009.                                                                  |
|                     | Surface Water Discharge,           | Contaminants released to land, stormwater      | 5           | Instigate Dust suppression activities, eg Water carts                                                  | Install sediment containment prior to any works taking place         | Any machine producing excessive fumes will be required to be replaced or repaired.                             | <u>Noise</u><br>POEO (Noise Control) Regulation 2008                                                                   |
|                     | Fauna and Flora,                   |                                                |             | Install silt fencing and hay bales for containment of sediment                                         |                                                                      | Machinery that be used on site will be required to have log books detailing servicing intervals, hours of use. | <u>Vehicle Air and Noise Emissions</u><br>POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines |
|                     |                                    | Damaged to protected vegetation, and wildlife  | 3           |                                                                                                        | Only those tree and shrubs identified, are to be removed             |                                                                                                                | <u>Trade Waste (Discharge to Sewer)</u><br>NSW Liquid Trade waste regulations 2009                                     |
|                     | Waste Management                   |                                                |             | Ensure that vegetation to be removed is identified by suitable qualified person                        |                                                                      | Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.     | <u>Threatened Species (in conjunction with commonwealth EPBC Act)</u>                                                  |
|                     |                                    | Track the recyclability of all waste materials | 3           | Waste management                                                                                       | Ensure documented evidence of recycled                               | Immediate isolation of area of unidentified find                                                               | Threatened Species Conservation Act 1995                                                                               |

| Activity    | Aspect                             | Impact                                        | Risk Level* | Objectives                                                                                             | Targets                                                              | Environmental Control (ref to procedures/ guidelines)                                                          | Applicable Legislation                                                                                                                                                                                       |
|-------------|------------------------------------|-----------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                    |                                               |             | contractor to supply a detailed report on all materials recycled                                       | materials is gathered monthly                                        |                                                                                                                |                                                                                                                                                                                                              |
| Civil works | Dust Noise and Vibration Emissions | Noise and Vibration emissions released        | 5           | To minimise the impact of noise and Vibration                                                          | Use machinery within hours described in DA                           | Erect and maintain construction site signage                                                                   | Protection of the Environment Operations Act 1997 (POEO Act)                                                                                                                                                 |
|             |                                    |                                               | 5           |                                                                                                        |                                                                      | Implementation of traffic management plan                                                                      | AS/NZS ISO 14001:2004                                                                                                                                                                                        |
|             |                                    | Dust released to adjoining properties         | 3           | Have boundary fences clad with shade cloth or similar product to suppress dust from escaping the site. |                                                                      | Display construction site signage                                                                              | AS/NZS ISO 14004:2004                                                                                                                                                                                        |
|             | Air Quality,                       |                                               | 5           |                                                                                                        | Ensure all dust minimisation is in place before clearing takes place | Maintain temporary fence                                                                                       | EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999                                                                                                                                        |
|             |                                    |                                               | 3           |                                                                                                        |                                                                      | All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.   | State Environment Protection Act 1970 and Regulations                                                                                                                                                        |
|             | Surface Water Discharge,           | Lower air quality                             |             | Instigate Dust suppression activities, eg Water carts                                                  |                                                                      | Any machine producing excessive fumes will be required to be replaced or repaired.                             | NSW Environmental Management System Guidelines, 2009.                                                                                                                                                        |
|             | Fauna and Flora,                   | Contaminant land, stormwater                  |             | Install silt fencing and hay bales for containment of sediment                                         | Install sediment containment prior to any works taking place         | Machinery that be used on site will be required to have log books detailing servicing intervals, hours of use. | <u>Noise</u><br>POEO (Noise Control) Regulation 2008                                                                                                                                                         |
|             | Waste Management                   | Damaged to protected vegetation, and wildlife |             | Ensure that vegetation to be removed is identified by suitable                                         | Only those tree and shrubs identified, are to be removed             | Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.     | <u>Vehicle Air and Noise Emissions</u><br>POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines<br><u>Trade Waste (Discharge to Sewer)</u><br>NSW Liquid Trade waste regulations 2009 |

| Activity | Aspect                             | Impact                                         | Risk Level* | Objectives                                                                                                | Targets                                                                                        | Environmental Control (ref to procedures/ guidelines)                                                                                                                                 | Applicable Legislation                                                                                                                                                                          |
|----------|------------------------------------|------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                    | Track the recyclability of all waste materials |             | qualified person<br><br>Waste management contractor to supply a detailed report on all materials recycled | Ensure documented evidence of recycled materials is gathered monthly                           | Immediate isolation of area of unidentified find                                                                                                                                      | <u>Threatened Species (in conjunction with commonwealth EPBC Act)</u><br><br>Threatened Species Conservation Act 1995                                                                           |
| Footings | Dust Noise and Vibration Emissions | Noise and Vibration emissions released         | 5<br>5      | To minimise the impact of noise and Vibration                                                             | Use machinery within hours described in DA                                                     | Erect and maintain construction site signage<br><br>Implementation of traffic management plan                                                                                         | Protection of the Environment Operations Act 1997 (POEO Act)<br><br>AS/NZS ISO 14001:2004<br><br>AS/NZS ISO 14004:2004                                                                          |
|          | Air Quality,                       | Dust released to adjoining properties          | 3<br>5      | Have boundary fences clad with shade cloth or similar product to suppress dust from escaping the site.    | Ensure all dust minimisation is in place before clearing takes place                           | Display construction site signage<br><br>Maintain temporary fence<br><br>All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements. | EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br><br>State Environment Protection Act 1970 and Regulations<br><br>NSW Environmental Management System Guidelines, 2009. |
|          |                                    | Lower air quality                              | 3           | Instigate Dust suppression activities, eg Water carts                                                     |                                                                                                | Any machine producing excessive fumes will be required to be replaced or repaired.                                                                                                    | <u>Noise</u><br>POEO (Noise Control) Regulation 2008                                                                                                                                            |
|          | Surface Water Discharge,           | Contaminants released to land, stormwater      |             | Install silt fencing and hay bales for containment of sediment                                            | Install sediment containment prior to any works taking place<br><br>Only those tree and shrubs | Machinery that be used on site will be required to have log books detailing servicing intervals, hours of use.                                                                        | <u>Vehicle Air and Noise Emissions</u><br>POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines<br><br><u>Trade Waste (Discharge to Sewer)</u>                           |

| Activity                                                                                  | Aspect                                                                                                                                                                 | Impact                                                                                                                               | Risk Level*                   | Objectives                                                                                                                                                                                                                                                           | Targets                                                                                                                                                                                                 | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                                                                                                                | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                           | Waste Management                                                                                                                                                       | Damaged to protected vegetation, and wildlife<br><br>Track the recyclability of all waste materials                                  |                               | Ensure that vegetation to be removed is identified by suitable qualified person<br><br>Waste management contractor to supply a detailed report on all materials recycled                                                                                             | identified, are to be removed<br><br>Ensure documented evidence of recycled materials is gathered monthly                                                                                               | Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.<br><br>Immediate isolation of area of unidentified find                                                                                                                                                                                                                   | NSW Liquid Trade waste regulations 2009<br><br><u>Threatened Species (in conjunction with commonwealth EPBC Act)</u><br><br>Threatened Species Conservation Act 1995                                                                                                                                                                                                                                                                        |
| Underground services (drainage, fire service, sewer, water, electricity, telephone, data) | Dust Noise and Vibration Emissions<br><br><br><br><br><br><br><br><br><br>Air Quality,<br><br><br><br><br><br><br>Surface Water Discharge,<br><br><br>Fauna and Flora, | Noise and Vibration emissions released<br><br><br>Dust released to adjoining properties<br><br><br><br><br><br><br>Lower air quality | 5<br>5<br><br>3<br>5<br><br>3 | To minimise the impact of noise and Vibration<br><br><br>Have boundary fences clad with shade cloth or similar product to suppress dust from escaping the site.<br><br><br>Instigate Dust suppression activities, eg Water carts<br><br><br>Install silt fencing and | Use machinery within hours described in DA<br><br><br><br><br><br>Ensure all dust minimisation is in place before clearing takes place<br><br><br><br><br><br>Install sediment containment prior to any | Erect and maintain construction site signage<br><br>Implementation of traffic management plan<br><br>Display construction site signage<br><br>Maintain temporary fence<br><br>All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.<br><br>Any machine producing excessive fumes will be required to be replaced or repaired. | Protection of the Environment Operations Act 1997 (POEO Act)<br><br>AS/NZS ISO 14001:2004<br><br>AS/NZS ISO 14004:2004<br><br>EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br><br>State Environment Protection Act 1970 and Regulations<br><br>NSW Environmental Management System Guidelines, 2009.<br><br><u>Noise</u><br><br>POEO (Noise Control) Regulation 2008<br><br><u>Vehicle Air and Noise Emissions</u> |

| Activity         | Aspect                                                                                               | Impact                                                                                                                                               | Risk Level*      | Objectives                                                                                                                                                                                                            | Targets                                                                                                                                                                                                  | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                                           | Applicable Legislation                                                                                                                                                                                                                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Waste Management                                                                                     | Contaminants released to land, stormwater<br><br>Damaged to protected vegetation, and wildlife<br><br>Track the recyclability of all waste materials |                  | hay bales for containment of sediment<br><br>Ensure that vegetation to be removed is identified by suitable qualified person<br><br>Waste management contractor to supply a detailed report on all materials recycled | works taking place<br><br>Only those tree and shrubs identified, are to be removed<br><br>Ensure documented evidence of recycled materials is gathered monthly                                           | Machinery that be used on site will be required to have log books detailing servicing intervals, hours of use.<br><br>Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.<br><br>Immediate isolation of area of unidentified find                        | POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines<br><br><u>Trade Waste (Discharge to Sewer)</u><br><br>NSW Liquid Trade waste regulations 2009<br><br><u>Threatened Species (in conjunction with commonwealth EPBC Act)</u><br><br>Threatened Species Conservation Act 1995                                           |
| Structural steel | Dust Noise and Vibration, Emissions<br><br><br><br><br><br><br>Paint and special finish applications | Noise and Vibration emissions released<br><br><br>Track the recyclability of all waste materials<br><br><br><br>Sewer or storm water                 | 5<br>5<br>3<br>5 | To minimise the environmental impact of all the structural steel instillation works of the site.<br><br><br>Wash out of utensils and work product                                                                     | Use machinery within hours described in DA<br><br>Ensure documented evidence of recycled materials is gathered monthly<br><br>Ensure all paint and special finishers are disposed of as per the material | Erect and maintain construction site signage<br><br>Implementation of traffic management plan<br><br>Display construction site signage<br><br>All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.<br><br>Any machine producing excessive fumes will be | Protection of the Environment Operations Act 1997 (POEO Act)<br><br>AS/NZS ISO 14001:2004<br><br>AS/NZS ISO 14004:2004<br><br>EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br><br>State Environment Protection Act 1970 and Regulations<br><br>NSW Environmental Management System Guidelines, 2009.<br><br><u>Noise</u> |

| Activity               | Aspect                                | Impact                                         | Risk Level* | Objectives                                                                     | Targets                                                                                | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                     | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------|------------------------------------------------|-------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |                                       | system contamination                           |             | in separate catchment bin and dispose of sediment in approved waste container. | safety data sheet for the substance used.                                              | <p>required to be replaced or repaired.</p> <p>Machinery that is to be used on site will be required to have log books detailing servicing intervals, hours of use.</p> <p>Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.</p> | <p>POEO (Noise Control) Regulation 2008</p> <p><u>Vehicle Air and Noise Emissions</u></p> <p>POEO (Noise Control) Regulation 2008 &amp; Interim Construction Noise Guidelines</p> <p><u>Trade Waste (Discharge to Sewer)</u></p> <p>NSW Liquid Trade waste regulations 2009</p> <p><u>Threatened Species (in conjunction with commonwealth EPBC Act)</u></p> <p>Threatened Species Conservation Act 1995</p> |
| Roof and wall cladding | Dust Noise and Vibration, Emissions   | Noise and Vibration emissions released         | 5           | To minimise the environmental impact of all the structural steel               | Use machinery within hours described in DA                                             | Erect and maintain construction site signage                                                                                                                                                                                                                                              | Protection of the Environment Operations Act 1997 (POEO Act)                                                                                                                                                                                                                                                                                                                                                 |
|                        |                                       |                                                | 5           | instillation works of the site.                                                | Ensure documented evidence of recycled materials is gathered monthly                   | Implementation of traffic management plan                                                                                                                                                                                                                                                 | AS/NZS ISO 14001:2004                                                                                                                                                                                                                                                                                                                                                                                        |
|                        |                                       | Track the recyclability of all waste materials | 3           |                                                                                |                                                                                        | Display construction site signage                                                                                                                                                                                                                                                         | AS/NZS ISO 14004:2004                                                                                                                                                                                                                                                                                                                                                                                        |
|                        | Paint and special finish applications |                                                | 5           |                                                                                | Ensure all paint and special finishers are disposed of as per the material safety data | All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.                                                                                                                                                                              | EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999                                                                                                                                                                                                                                                                                                                                        |
|                        |                                       | Sewer or storm water system                    |             | Wash out of utensils and work product in separate                              |                                                                                        | Any machine producing excessive fumes will be                                                                                                                                                                                                                                             | State Environment Protection Act 1970 and Regulations                                                                                                                                                                                                                                                                                                                                                        |
|                        |                                       |                                                |             |                                                                                |                                                                                        |                                                                                                                                                                                                                                                                                           | NSW Environmental Management System Guidelines, 2009.                                                                                                                                                                                                                                                                                                                                                        |
|                        |                                       |                                                |             |                                                                                |                                                                                        |                                                                                                                                                                                                                                                                                           | <u>Noise</u>                                                                                                                                                                                                                                                                                                                                                                                                 |



| Activity                                             | Aspect                                               | Impact                                                            | Risk Level*       | Objectives                                                                                                      | Targets                                                                                                                                     | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                     | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      |                                                      | contamination                                                     |                   | catchment bin and dispose of sediment in approved waste container.                                              | sheet for the substance used.                                                                                                               | <p>required to be replaced or repaired.</p> <p>Machinery that is to be used on site will be required to have log books detailing servicing intervals, hours of use.</p> <p>Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.</p> | <p>POEO (Noise Control) Regulation 2008</p> <p><u>Trade Waste (Discharge to Sewer)</u></p> <p>NSW Liquid Trade waste regulations 2009</p>                                                                                                                                                                                                                                                                                                              |
| Reinforced concrete ground slabs and external paving | Dust Noise and Vibration, Emissions Slurry discharge | <p>Stormwater , sewer contamination</p> <p>Soil contamination</p> | <p>3</p> <p>3</p> | Designated area for washing of concrete trucks and capture of slurry. Soiled material removed off site in bins. | Ensure all Concrete and slurry from washing of concrete tools and equipment / trucks is contained, dried out and disposed in bins provided. | <ul style="list-style-type: none"> <li>Designated area for washing of concrete trucks and capture of slurry. Soiled material to be placed in location to dry out then removed off site in bins.</li> </ul>                                                                                | <p>Protection of the Environment Operations Act 1997 (POEO Act)</p> <p>AS/NZS ISO 14001:2004</p> <p>AS/NZS ISO 14004:2004</p> <p>EPBC Act 1999 Environment Protection Biodiversity &amp; Conservation 1999</p> <p>State Environment Protection Act 1970 and Regulations</p> <p>NSW Environmental Management System Guidelines, 2009.</p> <p><u>Noise</u></p> <p>POEO (Noise Control) Regulation 2008</p> <p><u>Vehicle Air and Noise Emissions</u></p> |

| Activity                                                 | Aspect                                                                           | Impact                                                                                                                                        | Risk Level*          | Objectives                                                                                                                                                                                                                   | Targets                                                                                                                                                                                                                                            | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          |                                                                                  |                                                                                                                                               |                      |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | POEO (Noise Control) Regulation 2008 & Interim Construction Noise Guidelines                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sprinkler, mechanical, electrical and hydraulic services | Dust Noise and Vibration, Emissions<br><br>Paint and special finish applications | Noise and Vibration emissions released<br><br>Track the recyclability of all waste materials<br><br>Sewer or storm water system contamination | 5<br>5<br>3<br><br>5 | To minimise the environmental impact of all the structural steel instillation works of the site.<br><br>Wash out of utensils and work product in separate catchment bin and dispose of sediment in approved waste container. | Use machinery within hours described in DA<br><br>Ensure documented evidence of recycled materials is gathered monthly<br><br>Ensure all paint and special finishers are disposed of as per the material safety data sheet for the substance used. | Erect and maintain construction site signage<br><br>Implementation of traffic management plan<br><br>Display construction site signage<br><br>All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements.<br><br>Any machine producing excessive fumes will be required to be replaced or repaired.<br><br>Machinery that is to be used on site will be required to have log books detailing servicing intervals, hours of use.<br><br>Any machine that has not been serviced and maintained correctly will not be permitted to work on the site. | Protection of the Environment Operations Act 1997 (POEO Act)<br><br>AS/NZS ISO 14001:2004<br><br>AS/NZS ISO 14004:2004<br><br>EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br><br>State Environment Protection Act 1970 and Regulations<br><br>NSW Environmental Management System Guidelines, 2009.<br><br><u>Noise</u><br><br>POEO (Noise Control) Regulation 2008<br><br><u>Trade Waste (Discharge to Sewer)</u><br><br>NSW Liquid Trade waste regulations 2009 |
| Finishes and fixtures to                                 | Paint and special finish applications                                            | Sewer or storm water system                                                                                                                   | 5                    | Wash out of utensils and work product                                                                                                                                                                                        | Ensure all paint and special finishers are                                                                                                                                                                                                         | Wash out of utensils and work product in separate catchment bin and dispose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Protection of the Environment Operations Act 1997 (POEO Act)                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Activity                  | Aspect                                                                                 | Impact                                                                                  | Risk Level*           | Objectives                                                                                                                                                  | Targets                                                                                                                        | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                      | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| the offices and warehouse |                                                                                        | contamination                                                                           |                       | in separate catchment bin and dispose of sediment in approved waste container.                                                                              | disposed of as per the material safety data sheet for the substance used.                                                      | of sediment in approved waste container. All waste to be placed in bins provided.                                                                                                                                                                                                          | AS/NZS ISO 14001:2004<br>AS/NZS ISO 14004:2004<br>EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br>State Environment Protection Act 1970 and Regulations<br>NSW Environmental Management System Guidelines, 2009.<br><u>Noise</u><br>POEO (Noise Control) Regulation 2008<br><u>Trade Waste (Discharge to Sewer)</u><br>NSW Liquid Trade waste regulations 2009 |
| Landscaping               | Dust Noise and Vibration Emissions<br><br><br><br><br><br><br><br><br><br>Air Quality, | Noise and Vibration emissions released<br><br><br>Dust released to adjoining properties | 5<br>5<br>3<br>5<br>3 | To minimise the impact of noise and Vibration<br><br>Have boundary fences clad with shade cloth or similar product to suppress dust from escaping the site. | Use machinery within hours described in DA<br><br><br><br>Ensure all dust minimisation is in place before clearing takes place | Erect and maintain construction site signage<br><br>Implementation of traffic management plan<br><br>Display construction site signage<br><br>Maintain temporary fence<br><br>All machinery will be required to be serviced and maintained in accordance with manufacturer's requirements. | Protection of the Environment Operations Act 1997 (POEO Act)<br>AS/NZS ISO 14001:2004<br>AS/NZS ISO 14004:2004<br>EPBC Act 1999 Environment Protection Biodiversity & Conservation 1999<br>State Environment Protection Act 1970 and Regulations<br>NSW Environmental Management System Guidelines, 2009.                                                                               |

| Activity | Aspect                                                                   | Impact                                                                                                                                                                        | Risk Level* | Objectives                                                                                                                                                                                                                                                                                                  | Targets                                                                                                                                                                                                  | Environmental Control (ref to procedures/ guidelines)                                                                                                                                                                                                                                                                                                                              | Applicable Legislation                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Surface Water Discharge,<br><br>Fauna and Flora,<br><br>Waste Management | Lower air quality<br><br>Contaminants released to land, stormwater<br><br>Damaged to protected vegetation, and wildlife<br><br>Track the recyclability of all waste materials |             | Instigate Dust suppression activities, eg Water carts<br><br>Install silt fencing and hay bales for containment of sediment<br><br>Ensure that vegetation to be removed is identified by suitable qualified person<br><br>Waste management contractor to supply a detailed report on all materials recycled | Install sediment containment prior to any works taking place<br><br>Only those tree and shrubs identified, are to be removed<br><br>Ensure documented evidence of recycled materials is gathered monthly | Any machine producing excessive fumes will be required to be replaced or repaired.<br><br>Machinery that be used on site will be required to have log books detailing servicing intervals, hours of use.<br><br>Any machine that has not been serviced and maintained correctly will not be permitted to work on the site.<br><br>Immediate isolation of area of unidentified find | <u>Noise</u><br>POEO (Noise Control) Regulation 2008<br><u>Trade Waste (Discharge to Sewer)</u><br>NSW Liquid Trade waste regulations 2009<br><u>Ambient Air Quality</u><br>Protection of the Environment Operations Act 1997 (POEO Act)<br>Protection of the environment operations (Clean Air) Regulation 2010<br><u>Threatened Species (in conjunction with commonwealth EPBC Act)</u><br>Threatened Species Conservation Act 1995 |

## **5. ENVIRONMENTAL MANAGEMENT PROGRAM**

### **5.1 Treatment methods and inspection schedules**

#### **5.1.1 Method and Frequency of Inspections**

Visual inspections will be undertaken by the personnel referenced in Environment Management Plan Inspection Report at the following frequencies:

All Items: Daily

In wet weather: Protection at drainage pits three times per day. On day start up after overnight rain.

In windy weather: Continual monitoring for dust and air-borne materials.

#### **5.1.2 Records**

All initial records which define both the location and types of Environmental Management methods in place, as well as data on initial establishment and inspection dates are contained in the Environment Management Plan Inspection Report Section.

### **5.2 Control Method Specifications**

#### **5.2.1 Diversion Drains / Banks**

Earth diversion banks will be used to intercept and divert water away from the sites to stable locations.

Earth diversion banks will be constructed by pushing soil downhill into a long mound or by pushing soil uphill.

To avoid diversion bank channels becoming eroded, gradients will be constructed no steeper than 5%.

To prevent soil slippage, the diversion banks and channels will be constructed with stable side gradients, typically no steeper than 1:1 (horizontal: vertical).

Surface vegetation and at least 50mm of topsoil will be stripped from below diversion bank areas, exposed soil furrowed and the bank compacted in thin layers.

#### **5.2.2 Recycle of Waste.**

Frasers Property will contract to Hello Bin Hire Pty Ltd for all recycle and waste management processes from site produce waste.

Their recycle depot, which is fundamentally, a manual operation, operating in an enclosed facility, which provides for an efficiency and unrestricted capability for recycling purposes.

Their recycle depot sorts, consolidates stores and transport a variety of waste, namely:

- Bricks & Pavers
- Building Timber
- Concrete & Concrete products
- Plaster
- Soil
- Paper, Cardboard & Plastics
- Ferrous & Non Ferrous Metals

A minimum of 80% of construction waste will be reused or recycled during the project. A monthly report will be provided that will include the percentage of total construction waste that has been reused/recycled.

### **5.2.3 Table Drains**

Table drains will be used to collect water at the base of batters and divert the water away from the sites to a stable location.

The drain will be formed in a spoon drain style and at a grade. Table drains will be dressed. Methods of best practice will be used to protect the storm water drains.

### **5.2.4 Dust Management & Sediment Control Barriers**

Dust generation from construction activities will be mitigated by regularly using water carts along the earth in order to reduce the amount of dust generated from construction activity and wind driven dust, this will be specifically implemented daily during hot & dry periods. All public & private road ways will be street swept as required in order to remove dust from the road ways and mitigate any risk of dust entering the storm water systems. In addition dust cloth will be added to the site boundary in order to capture and reduce the impact of dust on the surrounding roadways. A street sweeper will be present on site at all times.

All construction access road ways within the site will be proof rolled and compacted in order to reduce the amount of dust generated from construction site vehicles coming in and out of the site regularly.

Sediment Control Barriers will be constructed using straw bales staked to the ground in the invert and batters of drains forming a dam. Water will slowly filter through the straw bale, which will remove a reasonable amount of suspended contaminants. GEO fabric may be used over the face of the bales to help the filtration.

Bales will be replaced after heavy rains or when contaminated.

An inspection to be conducted by the site foreman after heavy rains to ensure pooling of water does not occur.

### **5.2.5 Velocity Controls**

Velocity of water will be controlled by:

- i) In drains a straw bale or large rock will be placed in the base of the drain to slow the water to prevent erosion of the drain.
- ii) On batters, furrows will be placed across the batter to slow the water velocity or prevent erosion of the batter.

### **5.2.6 Stockpiles**

Spoil on the site will be temporarily stockpiled in three distinct piles, topsoil, clay, spoil and rock.

(Temporary stockpiling refers to a short amount of period during construction).

All stockpiles are to be removed from site prior to project completion.

The quantity of spoil to be stockpiled will be minimal as all subcontractors will be required to remove all spoil from the site.

The stockpiles will be located on a flat section of land adjacent to the site.

The stockpile will be constructed with a slope no greater than 1:1 (horizontal: vertical).

The stockpiles are temporary and will be 'dressed' as smooth as possible to minimise dust and erosion. The stockpiles will be watered with non-potable water if dusting occurs.

If required and practicable, a sediment control barrier will be constructed around the base and stockpiles will be covered.

If excess spoil is required, the origin of soil certificates for all soil brought onto the Martin Brower site will be approved prior to the soil arriving.

### **5.2.7 De-watering of Site**

To remove water from the work area, the pump intake will be kept as close to the surface of pool as possible. Care will be taken to avoid pumping from the bottom of pools and constant supervision will be provided during pumping operations to ensure this does not happen.

Contaminated water taken off the land and disposed of at an EPA licensed facility. .

### **5.2.8 Noise / Vibration / Fumes**

All machinery that enters the site will conform to Occupational Health and Safety requirements.

These regulations require all machinery to have a log book outlining service intervals, hours of use and maintenance carried out.

All machines will be checked regularly to conform with all manufacturers requirements.

If any machine is to be found to be producing excessive noise / vibration / fumes, it will be serviced immediately to resolve the problem.

#### **5.2.9 Storage of Fuels, Oils and Chemicals**

Storage of fuels, oils and chemicals on the site will be kept to a minimum.

Any fuel, oils or chemicals that will be kept on site will be stored in the onsite container which is locked at all times and stored in accordance with regulatory requirements where applicable.

Any bulk fuel required to refill machinery will be by mini-tankers within a designated and bounded area

A spill response kit will be located at this facility. The kit will consist of large quantities of absorbing materials such as saw dust, recycled shredder paper, cement dust and were applicable to a particular chemical, if required on site, an absorption product recommended by that particular supplier.

Should a major spill of a large quantity of product occur, then a machine would be used to create a holding basin in the affected immediate area. An appropriate qualified contractor will be employed to remove the spillage to an approved disposal location.

Should a spill over 5L occur site management will be notified immediately and the spill will be contained using the mobile spill kit. If Site Management is not able to contain the spill with the mobile spill kit and the spill is unable to be controlled the site manager shall declare an environmental emergency. In the case of an environmental emergency 000 will be notified immediately. Site evacuation procedure is to be implemented and all site personal are to assemble at the designated safe assembly points and await direction from site management.

Spills in excess of 5L will be immediately reported to.

Frasers Property will submit a report of the incident within 48hrs of the occurrence.

#### **5.2.10 Shaker Grids**

A shaker grid will be installed at the entry / exit point of the site prior to the commencement of earthworks.

Excessive amounts of mud will be removed first, after which the vehicle will drive over the shaker grid.

In the event the road does become dirty, a road sweeper will be employed to clean the road to the satisfaction of Council.



#### **5.2.11 Rubbish Bins and Waste Skips**

Ample rubbish bins and waste skips will be provided around the site and the amenities. Appropriate lids or covers will be placed on rubbish bins and waste skips, all of which will be closed at all times.

Bins will not be allowed to be overfilled to prevent rubbish in a bin being blown away.

A regular site inspection will be made and any loose rubbish will be picked up immediately.

As part of the induction process, all workers will be required to clean up their own rubbish as they progress.

#### **5.2.12 Asbestos Removal**

If Asbestos is found on site it will be determined by an Environmental Report to be supplied.

However in the case that asbestos is found, the appropriate and licensed contractor will be employed to remove any contaminated areas.

#### **5.2.13 Management of Ozone Depleting Substances**

Minimal ozone depleting substances will be produced during construction. Control measures include quantifying the amount of substance produced, eliminating the source and providing alternative means for the action in question.

### **5.3 Training of Personnel**

All personnel on site are required to be inducted. As part of this induction, reference will be made to this document and an explanation of the environmental issues will be provided. Once inducted, personnel are required to sign a form stating they understand all issues discussed and will comply with all requirements before they start work on the site.

Further, all personnel, management and workers on site will be provided with a copy of this report, and the associated reference material. Frasers Property staff is trained on spill response prior to commencement of the project.

### **5.4 Contingency Plans**

In the unlikely occurrence of a failure of any of the control measures, a contingency plan will be devised, approved and implemented promptly. Remedial action will be undertaken immediately to make the existing control measures operate until the contingency plan is able to be implemented fully.

The contingency plan will be devised through consultation with Frasers Property Industrial Constructions Pty Ltd.

## **5.5 Reporting of Environmental Incidents and Emergencies**

Environmental incidents are to be reported by our site manager to the relevant authority including the Department of Planning.

See spill procedure in section 5.2.10.

## **5.6 Maintenance, Audit and Inspection Program**

Refer to Evaluation of Environmental Risks and individual site inspection reports for information on inspection program and maintenance.

A copy of all reports will be kept on site and available for review at any time.

Any non-conforming results during our site monitoring will be reported by our Project Manager within 24hrs of the inspection.

## **5.7 Cultural Heritage and Contaminated Soil**

Where artefacts of cultural significance or contaminated soil are found on the site, works will be ceased and the Site Manager will immediately contact Frasers Property management.

## **5.8 Landscaping**

Due to the undeveloped nature of the property, there are no significant trees or shrubs indicated to be retained.

The finalised landscaping plan will be issued to local council for approval and will be designed to meet the council Planting Guidelines.

All imported new top soil will be classified under the appropriate Australian standard as clean fill suitable for its intended use.

Garden top soil will only contain approved fertilizer.

## **5.9 Community Consultation & Complaints Handling**

Frasers Property Australia have consulted with affected businesses within the community and local authorities, refer below;

- Top Tyres – 133 – 139 Cowpasture Rd, Wetherill park NSW 2164
- Austral Wright Metals – 133 – 139 Cowpasture Rd, Wetherill park NSW 2164
- AWJ Civil on behalf of Frasers Property Australia have contacted all emergency services, Police, Fire, Ambulance & SES, whom have all responded with no objections.

All evidence of community consultation is evident in the site specific construction traffic management plan Version 1.4

All complaints handling will directed to Frasers Property Australia, specifically by the specific project team and all complaints will be dealt with on an as required basis and all reasonable measures will be undertaken to address the specifics of the complaint.

All complaints will be formally expressed by the community via post to Frasers Property Australia Head Office or Site Office and a formal response by Frasers Property Australia will be issued outlining measures undertaken to address the specifics of the complaint.

|                                                                                   |                                                               |  |                                                |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|--|------------------------------------------------|
|  | <h2 style="margin: 0;">Site Managers Weekly Review</h2>       |  | Form: MABP 405<br>3 <sup>rd</sup> October 2012 |
|                                                                                   | <b>Site Managers Name:</b><br><b>Site Managers Signature:</b> |  | <b>Date:</b>                                   |

| No | Safety Items                                             | <input checked="" type="checkbox"/><br>N/A | Specify exact location & item. | Action<br>(Date) |
|----|----------------------------------------------------------|--------------------------------------------|--------------------------------|------------------|
| 1  | Have all employees been site inducted?                   |                                            |                                |                  |
| 2  | Have employees been inducted into their SWMS?            |                                            |                                |                  |
| 3  | Have SWMS been reviewed?                                 |                                            |                                |                  |
| 4  | Have SWMS Observations been conducted?                   |                                            |                                |                  |
| 5  | Have items of plant been site inducted?                  |                                            |                                |                  |
| 6  | Are the site boundaries fenced & secure?                 |                                            |                                |                  |
| 7  | Is PPE & Construction Signage in place?                  |                                            |                                |                  |
| 8  | Are all Excavations barricaded or protected?             |                                            |                                |                  |
| 9  | Has the Site Services Plan been up dated?                |                                            |                                |                  |
| 10 | Are the Site Amenities clean & compliant?                |                                            |                                |                  |
| 11 | Are tested & tagged Fire Extinguishers in place?         |                                            |                                |                  |
| 12 | Is there a Haz Subs container on site?                   |                                            |                                |                  |
| 13 | Has the Emergency Assembly Point been defined?           |                                            |                                |                  |
| 14 | Has the Emergency Evacuation siren been tested?          |                                            |                                |                  |
| 15 | Is the First Aid Kit fully stocked?                      |                                            |                                |                  |
| 16 | Is the Defib unit operational?                           |                                            |                                |                  |
| 17 | Are First Aid Injuries being recorded & reported?        |                                            |                                |                  |
| 18 | Is the First Aiders Certificate current & displayed?     |                                            |                                |                  |
| 19 | Has Electrical equipment been tested & tagged?           |                                            |                                |                  |
| 20 | Have the site sheds been tested & tagged?                |                                            |                                |                  |
| 21 | Are electric leads off the ground?                       |                                            |                                |                  |
| 22 | Have Scaffold Inspections been completed?                |                                            |                                |                  |
| 23 | Are Mobile Scaffolds assembled correctly?                |                                            |                                |                  |
| 24 | Are Access Ladders tied off & secure.                    |                                            |                                |                  |
| 25 | Are Platform ladders being used in a safe manner?        |                                            |                                |                  |
| 26 | Have any Stepladder Task approvals been granted?         |                                            |                                |                  |
| 27 | Is suitable handrail in place & is it in good condition? |                                            |                                |                  |
| 28 | Are appropriate warning signs in place?                  |                                            |                                |                  |
| 29 | Are all penetrations covered to prevent falls?           |                                            |                                |                  |
| 30 | Is adequate Access & Egress in place?                    |                                            |                                |                  |
| 31 | Is adequate task & access lighting in place?             |                                            |                                |                  |
| 32 | Is site housekeeping of a high standard?                 |                                            |                                |                  |

|    |                                                    |  |  |  |
|----|----------------------------------------------------|--|--|--|
| 33 | Are materials stacked safely & securely?           |  |  |  |
| 34 | Is Personal Protective Equipment in use?           |  |  |  |
| 35 | Have Plant Log Books been completed.               |  |  |  |
| 36 | Is mobile plant being used correctly?              |  |  |  |
| 37 | Has the Precast Panel Checklist been completed?    |  |  |  |
| 38 | Has the Structural Steel Checklist been completed? |  |  |  |
| 39 | Has the Roof Permit been completed?                |  |  |  |
| 40 | Have Permits to Dig been completed?                |  |  |  |

|  |                                                                                                                | <h2 style="margin: 0;">Site Managers Weekly Review</h2> |                                | Form: MABP 405<br>3 <sup>rd</sup> October 2012 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------|------------------------------------------------|
| No                                                                                | Environment Items                                                                                              | <input checked="" type="checkbox"/><br>N/A              | Specify exact location & item. | Action (Date)                                  |
| 1                                                                                 | Is the EMP current & on site?                                                                                  |                                                         |                                |                                                |
| 2                                                                                 | Are silt fences in place & in good condition?                                                                  |                                                         |                                |                                                |
| 3                                                                                 | Are storm water drains clean & protected?                                                                      |                                                         |                                |                                                |
| 4                                                                                 | Are sedimentation basins constructed correctly?                                                                |                                                         |                                |                                                |
| 5                                                                                 | Is all water draining into the sedimentation basins?                                                           |                                                         |                                |                                                |
| 6                                                                                 | Is the water in the basin being regularly monitored?                                                           |                                                         |                                |                                                |
| 7                                                                                 | Have silt fences been installed?                                                                               |                                                         |                                |                                                |
| 8                                                                                 | Are silt fences being maintained?                                                                              |                                                         |                                |                                                |
| 9                                                                                 | Is dewatering being carried out in accordance with regulatory requirements?                                    |                                                         |                                |                                                |
| 10                                                                                | Does the site contain contaminates?                                                                            |                                                         |                                |                                                |
| 11                                                                                | Are contaminates being controlled?                                                                             |                                                         |                                |                                                |
| 12                                                                                | Are waste disposal containers are place?                                                                       |                                                         |                                |                                                |
| 13                                                                                | Have separate food waste bins been provided?                                                                   |                                                         |                                |                                                |
| 14                                                                                | Are there lids or covers on all bins?                                                                          |                                                         |                                |                                                |
| 15                                                                                | Is there a paint wash-out system in place?                                                                     |                                                         |                                |                                                |
| 16                                                                                | Has a concrete wash out area been established?                                                                 |                                                         |                                |                                                |
| 17                                                                                | Has a refuelling area been established?                                                                        |                                                         |                                |                                                |
| 18                                                                                | Refuelling area is not near drains or gutters?                                                                 |                                                         |                                |                                                |
| 19                                                                                | Have spill kits been established & maintained?                                                                 |                                                         |                                |                                                |
| 20                                                                                | Are Haz Subs being stored correctly?                                                                           |                                                         |                                |                                                |
| 21                                                                                | Are MSDS available for all substances on site?                                                                 |                                                         |                                |                                                |
| 22                                                                                | Is dust suppression in place (e.g. water cart)?                                                                |                                                         |                                |                                                |
| 23                                                                                | Is mobile plant fitted with appropriate noise control?                                                         |                                                         |                                |                                                |
| 24                                                                                | Is work being conducted in authorised hours?                                                                   |                                                         |                                |                                                |
| 25                                                                                | Are site contact details displayed?                                                                            |                                                         |                                |                                                |
| 26                                                                                | Are Emergency Contact details displayed?                                                                       |                                                         |                                |                                                |
| 27                                                                                | Has a traffic management plan been developed?                                                                  |                                                         |                                |                                                |
| 28                                                                                | Is the traffic management plan on site?                                                                        |                                                         |                                |                                                |
| 29                                                                                | Are traffic control measures in place?                                                                         |                                                         |                                |                                                |
| 30                                                                                | Are rumble grids in place?                                                                                     |                                                         |                                |                                                |
| 31                                                                                | Is ballast rock in place on site access roads?                                                                 |                                                         |                                |                                                |
| 32                                                                                | Are adjacent public roads clean?                                                                               |                                                         |                                |                                                |
| 34                                                                                | Are spoil stockpiles sorted according to type i.e. <ul style="list-style-type: none"> <li>• Topsoil</li> </ul> |                                                         |                                |                                                |

|    |                                                                                                                                                  |  |  |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|    | <ul style="list-style-type: none"> <li>• Clay</li> <li>• Rock</li> </ul>                                                                         |  |  |  |
| 35 | <p>Are spoil stockpiles being controlled to minimise:</p> <ul style="list-style-type: none"> <li>• Dust generation</li> <li>• Erosion</li> </ul> |  |  |  |

**Appendix 1 – Erosion & Sediment Control Plan**