



OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN (OEMP)

65-73 Dunheved Circuit, St Marys NSW 2760

Lot 1 DP 117580

Revision History

Revision	Date	Reason for Issue
A	25/07/2015	Issued for Development Application



[Builders Licence 237451C/Restricted Demolition Licence 207180]
21/ 201 New South Head Road, Edgecliff NSW 2027
Tel/Fax 02 9358 2263 Email info@silverwolfprojects.com.au
Web www.silverwolfprojects.com.au



Contents

1.	Introduction.....	3
1.1.	Background	3
1.2.	Project Description.....	4
	Location.....	4
	Operational Activities	5
	Hours of Operation	5
1.3.	OEMP Context.....	5
	Applicable Legislation	5
1.4.	OEMP Objectives	7
2.	Environmental Management Program.....	7
2.1.	Components of the OEMP	7
2.2.	Operational Phase Environmental Issues	7
2.3.	Roles and Responsibility	8
2.1.	Complaints Response Procedure	9
2.2.	Non Conformance Register	9
2.3.	Regular Document Review	9
3.	Implementation	10
3.1.	Risk Assessment	10
3.1.	OEMP Environmental Impacts and Control Measures	11
	Air quality Control Measures.....	11
	Noise Management Control Measures.....	12
	Transport and Traffic Management and Site Access Control Measures.....	13
	Waste Management Control Measures.....	14
4.	Closure	16





1. Introduction

1.1. Background

The Operation Environmental Management Plan (OEMP) has been prepared in assisting the Development Application (DA) for the establishment of a landscape supplies production facility at Lot 1, 65-73 Dunheved Circuit, St Marys NSW 2760.

This OEMP aims to provide clear direction on the selection and implementation of appropriate environmental control and monitoring techniques for the facility's operations.

In order to ensure that the facility operates with the least environmental impact, this OEMP addresses the following relevant environmental issues:

- Air quality – Dust Management
- Noise Management
- Transport and Traffic Management and Site Access
- Waste Management



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1.2. Project Description

Location

The proposed landscape supplies production facility is located on Lot 1, 65-73 Dunheved Circuit, St Marys NSW 2760 as shown on the locality in **Figure 1**.

The site is located within Precinct 1 of the Dunheved/ St Marys Industrial Area and is zoned General Industrial IN1.

Current surrounding area contains a mix of industrial, manufacturing, storage and transport type industries.



Figure 1- Site Locality Proposed of Landscape Supplies Production Facility



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Operational Activities

The proposed facility receives and processes Virgin Excavated Natural Materials (VENM), predominantly sandstone into certified civil landscape materials.

The proposed facility utilises heavy plant equipment including trucks, excavator and a 50 tonne J1175 mobile crusher as part of its operations in processing the VEMN.

The proposed facility anticipates a transportation total of 1000 tonnes of material per day equating to approximately 40 truck movements per day.

Hours of Operation

The proposed facility's normal hours of operation is between 6.00am to 7.00pm, 6 days, Monday – Saturday.

During peak operations, site activity may extend to 24 hours, however traffic movement is not anticipated outside the normal hours of operations.

At no time on Sundays or public holidays would the facility operate.

1.3. OEMP Context

Applicable Legislation

Table 1 defines the relevant legislation that applies to the operation of the proposed facility. In the event of any inconsistency arising between the implementation of the OEMP, and state or local government regulations, the regulatory requirements take priority.



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Table 1 - Applicable Legislations

Legislations	Intent	Regulatory authority
Environmental Planning and Assessment Act 1979	To assess the impact of the development proposal on the environment.	NSW Department of Planning and Infrastructure.
Protection of Environment Operations Act 1997	To regulate activities so as to prevent pollution of the environment.	NSW Environment Protection Authority.
Protection of the Environment Operations (Clean Air) Regulations 2010	Details the requirements a business is required to adhere to with the aim of ensuring the long-term quality of natural air.	New South Wales Environment Protection Authority.
Protection of the Environment Operations (Noise Control)	Details the requirements that a business is required to adhere to with the aim of minimising and controlling	New South Wales Environment Protection Authority.
– <i>Protection of the Environment Operations (Waste) Regulation 2005</i> Environmental Management Program	Gives specific details as to how businesses should manage any waste or by-products generated during business activities.	New South Wales Environment Protection Authority.



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1.4. OEMP Objectives

The objectives of the OEMP are to:

- Manage site activities effectively;
- Identify all appropriate environmental safeguards and demonstrate how they will be implemented on-site;
- Enable adverse impacts on the environment to be minimised;
- Meet all requirements of relevant legislations
- Monitor and manage environmental impacts.

2. Environmental Management Program

2.1. Components of the OEMP

Environmental issues identified in this OEMP are specific to the operational phase of the proposed facility. The OEMP has been prepared in an issues-based format that nominate for each environmental issue or impacting activity, the tasks that are required to be addressed during the operational phases of the proposed facility covering:

- Environmental issue.
- Environmental objectives.
- Control measures.
- Responsibility.
- Monitoring.
- Reporting.
- Performance Indicators.
- Corrective Action.

2.2. Operational Phase Environmental Issues

Environmental issues identified in this OEMP are included for the operation phase of the proposed facility. The operation phase OEMP issues are detailed in Table 2. Table 2 provides each environmental aspect.



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Table 2 - Operational Phase Environmental Issues

Activities	Environmental aspect(s)	Potential Environmental Impact(s)
Truck movement	Noise Management	Generation of dust impacting nearby occupants
	Air Quality	Generation of dust impacting nearby occupants
Loading/Unloading Trucks	Noise Management	Noise nuisance to surrounding occupants
	Air Quality	Generation of dust impacting nearby occupants
	Traffic Management	<ul style="list-style-type: none"> • Congestion causes operational delays. • Congestion becomes a human health hazard (air quality) • Congestion causes injury or loss of life
Crushing Raw Materials	Noise Management	Noise nuisance to surrounding occupants
	Air Quality	Generation of dust impacting nearby occupants
Staff and Contractors Waste Disposal	Waste Management	<ul style="list-style-type: none"> • Litter entering surrounding environment • Recyclable not being recycled • On-site build-up of litter resulting in a health, fire or safety hazard

2.3. Roles and Responsibility

All relevant staff employed and contractors appointed by the proposed facility shall be formally advised of their obligations under the OEMP and informed of the significance of the OEMP.

It is the responsibility of the Site Supervisor to ensure all staff and contractors adhere to their environmental obligations.

It is the responsibility of the Site Supervisor to ensure all performance indicators are within the acceptable limits in accordance with the relevant legislations.



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2.1. Complaints Response Procedure

All complaints and enquiries will be recorded in a Complaints Register. The information recorded in this register will include:

- date and time of the contact or complaint;
- means by which the contact or complaint was made (telephone, mail or email);
- any personal details of the individual who provided the information or complaint, or if no details were provided, a note to that effect;
- the nature of the comment or complaint;
- record of operational and meteorological condition contributing to the comment or complaint;
- any action(s) taken by the proposed facility in relation to the comment or complaint; including any follow-up contact with the individual who provided the information or complaint;
- if no action was taken by the proposed facility in relation to the comment or complaint, the reason(s) why no action was taken.

The General Manager and Site Supervisor will be responsible the Complaints Register is kept up to date.

2.2. Non Conformance Register

A Non-Conformance Register will be maintained which contains all corrective action notices.

2.3. Regular Document Review

The currency of all copies of the OEMP shall be reviewed annually to ensure that current versions of the OEMP are available to staff and contractors and obsolete versions are removed to avoid errors and confusion.



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3. Implementation

3.1. Risk Assessment

A risk assessment has been undertaken of the potential environmental impacts from the facility's operational activities to ensure that the appropriate environmental assessment, conditions of approval, and any other site investigations are effectively translated into operation at the proposed facility.

The risk assessment process is based on the Australian Standard, (AS/NZS 4360:2004) Risk Management and (ISO14001), which provides qualitative measures in estimating the consequence or impact of an event, against the likelihood of occurrence. Each risk was assessed as being low (L), medium (M) or high (H) in terms of both consequence and likelihood. The Risk Analysis Matrix shown in Table 3 was applied to assess the priority of the various hazards identified.

Table 3 - Risk Management

	Consequences				
Likelihood	Insignificant	Minor	Moderate	Major	Catastrophic
Almost Certain	L	M	H	H	H
Likely	L	M	H	H	H
Moderate	L	M	H	H	H
Unlikely	L	L	L	M	H
Rare	L	L	L	M	M





3.1. OEMP Environmental Impacts and Control Measures

Air quality Control Measures

Air Quality - Dust Management			
Potential Impact	Generation of dust impacting nearby occupants	Risk Rating	L
Operational Objective	Minimise impacts on air quality To ensure compliance with the following legislation: <ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997 • Protection of the Environment Operations (Clean Air) Regulations 2010 		
Management Strategies	The following practices and procedures will be adopted to ensure that dust levels are adequately controlled: <ul style="list-style-type: none"> • Installation of automatic water spray dust control system along the boundary of the site. • Minimising traffic movements on exposed areas; • Dampening of stockpiles; • Removing mud from vehicles on rumble grid before leaving the site • Providing awareness training in the importance of minimising dust generation at its source. 		
Monitoring	<ul style="list-style-type: none"> • Dust monitoring will be conducted visually throughout the day by a Site Supervisor in charge on the day. • The Site Supervisor will have access to dust gauges which will be used in assisting management of dust on the site. 		
Reporting	<ul style="list-style-type: none"> • All incidents of pollution will be reported to the Site Supervisor. 		
Performance Indicators	<ul style="list-style-type: none"> • No valid air quality/ dust complaints received in relation to operation of the facility 		
Corrective Action	<ul style="list-style-type: none"> • In the event the above management strategies are inadequate, additional dust suppressant measures will be implemented such as additional water spraying activity. 		





	<ul style="list-style-type: none"> • Non-conformance with this plan shall be documented and a corrective action request (CAR) issued. All CARs shall be included in the non-conformance register.
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Noise Management Control Measures

Noise Management			
Potential Impact	Noise nuisance to surrounding occupants	Risk Rating	L
Operational Objective	Minimise operational noise impact on nearby sensitive receptors. To ensure compliance with the following legislation: <ul style="list-style-type: none"> • Protection of the Environment Operations Act 1997 • The Protection of the Environment Operations (Noise Control) Regulation 2008 • NSW Industrial Noise Policy (1999) 		
Control Measures	The following practices and procedures will be adopted to ensure that noise levels are adequately controlled: <ul style="list-style-type: none"> • Establish a soft landscape buffer area along the northern boundary • Minimising traffic movements • Limit truck air breaks • Perform facility operations during normal hours of operation The following practices and procedures will be adopted to ensure that noise levels are adequately controlled: <ul style="list-style-type: none"> • Regular inspections of noise levels will be conducted in the early stages of the facility operation to confirm the quantity of noise pollution 		
Monitoring	<ul style="list-style-type: none"> • Site supervisors is to ensure noise levels are with the noise level limits using sound measuring equipment in accordance with Australian Standard 1259 Acoustics - Sound Level Meters as a Type 1. • Measurement should be done in accordance with the procedures of Australian Standard 1055 –<i>Acoustics-Description and Measurement of Environmental Noise</i>. 		
Reporting	<ul style="list-style-type: none"> • All incidents of pollution will be reported to the Site supervisor. 		
Performance Indicators	<ul style="list-style-type: none"> • No valid noise complaints received in relation to operation of the facility. 		





Operational Environmental Management Plan (OEMP)

SWP Ref: 1505626

Date: 25 July 2016

	<ul style="list-style-type: none"> No exceedance of the noise limits of 70 dB specified by state and local legislations for industrial areas.
Corrective Action	<ul style="list-style-type: none"> Non-conformance with this plan shall be documented and a corrective action request (CAR) issued. All CARs shall be included in the non-conformance register.

Transport and Traffic Management and Site Access Control Measures

Transport and Traffic Management and Site Access			
Potential Impact	a) Congestion causes operational delays. b) Congestion becomes a human health hazard (air quality) c) Congestion causes injury or loss of life	Risk Rating	L L H
Operational Objective	<ul style="list-style-type: none"> Ensure safe and efficient access of general traffic to and from the proposed facility 		
Control Measures	The following practices and procedures will be adopted to ensure that traffic are adequately controlled: <ul style="list-style-type: none"> Provide a six (6) space carpark for staff and contractors. The loading and unloading activities will take place in the facility only. Truck drivers will be given specific instructions for loading/unloading activities on site. Ensure that all truck drivers are aware of the access requirements Ensure that all truck drivers are aware of procedures once on site Ensure that the necessary permits and licenses are obtained if equipment deliveries using oversized vehicles are required. 		
Monitoring	<ul style="list-style-type: none"> The Site Supervisor is to monitor compliance and effectiveness of the control measured implemented for traffic and undertake appropriate mitigation procedures to address any deviations. 		
Reporting	<ul style="list-style-type: none"> All incidents will be reported to the Site supervisor. 		
Performance Indicators	<ul style="list-style-type: none"> No valid traffic complaints 		



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	<ul style="list-style-type: none"> No traffic accidents on or relevant to the site.
Corrective Action	<ul style="list-style-type: none"> Non-conformance with this plan shall be documented and a corrective action request (CAR) issued. All CARs shall be included in the non-conformance register.

Waste Management Control Measures

Waste Management			
Potential Impact	<ul style="list-style-type: none"> Litter entering surrounding environment Recyclable not being recycled. On-site build-up of litter resulting in a health, fire or safety hazard. 	Risk Rating	L L L
Operational Objective	<ul style="list-style-type: none"> To minimise waste generated at the site and reduce to volume of waste requiring disposal to landfill. To prevent disposal of waste from site to receiving environments. To maintain the site in a neat and tidy state without build-up of litter. To ensure compliance with the following legislation: <ul style="list-style-type: none"> – <i>Protection of the Environment Operations Act 1997 (POEO Act)</i> – <i>Protection of the Environment Operations (Waste) Regulation 2005</i> 		
Management Strategies	<p>The following practices and procedures will be adopted to reduce the amount of waste being disposed of at landfill:</p> <ul style="list-style-type: none"> The site will include two (2) 240L separate collection bins designated for general waste and recycling of recycling of paper/cardboard, glass, PET plastic and aluminium cans. The bins will be collected and emptied every two (2) weeks. Consideration will be given to the waste management hierarchy outlined in the Waste Avoidance and Resource Recovery Act 2001: <ul style="list-style-type: none"> – Avoidance. – Resource recovery – Disposal. Ensure that a dedicated storage area for the separation, collection and recycling of waste with good access by all staff and contractors and for collection by recycling companies is provided and maintained. Between collection periods, all waste / recyclable materials generated upon the site shall be kept in enclosed bins with 		



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	securely fitting lids so that the contents are not able to leak or overflow.
Monitoring	<ul style="list-style-type: none"> • Monitor quantities (volume and/or weight) of waste recovery during early stages of operation to determine whether collection frequencies are adequate. • Regular inspection of the surrounding areas shall be undertaken to ensure no waste has escaped from the proposed facility.
Reporting	<ul style="list-style-type: none"> • All accidental waste discharged into the surrounding areas of the proposed facility will be reported to the Site Supervisor. • Failure of any aspect of the waste management system shall result in a review of the reasons for the failure and the implementation of corrective actions.
Performance Indicators	<ul style="list-style-type: none"> • Visual inspection of on-site storage and permanent drains shall be used to assess compliance with waste management plan. The following shall indicate a failure and the need for corrective action: <ul style="list-style-type: none"> - presence of litter on the property; - presence of litter in adjacent environments; and - presence of pests or nuisance species. • Compliance with the Work Health and Safety Act 2011, regulations for waste management and public health and the guidelines for relevant statutory authorities.
Corrective Action	<ul style="list-style-type: none"> • Should extensive littering occur, a review of the waste management systems will be undertaken and appropriate measures (e.g. bin placement, education) shall be implemented, such as provision of additional waste containers (either general or specific purpose) or an increase in the frequency of waste collection.



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4. Closure

We trust this OEMP provides a clear direction on the selection and implementation of appropriate environmental control and monitoring techniques for the operation of proposed facility with the least environmental impact and in accordance with relevant environmental legislations.

Should you require further information or clarification on the matter, please do not hesitate to contact the undersigned.

Yours Faithfully,

Silver Wolf Projects Pty Ltd

Prepared by:

Jimmy Tran
Structural/Civil Engineer
B.Eng (Civil) B.Bus (Finance) Grade IE Aust.

Reviewed, Issued & Approved by:

Deniz Bekir
Principal Engineer/Building Consultant
B.E. (Civil)(Hons) Certificate IV Building Studies
MIE Aust. CPEng NER RPEQ EC (VIC BPB)
Unrestricted Demolition Supervisors Certificate
NSW Building Contractors Lic No. 161767C



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