



Site Environmental Management Plan (SEMP)

Thredboland and Freeriders Beginner Zone

Thredbo Alpine Resort
Kosciuszko National Park, NSW

June 2022

Thredboland and Freeriders Beginner Zone Project

Site Environmental Management Plan (SEMP)

Kosciuszko Thredbo Pty Ltd

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1 Introduction

This Site Environmental Management Plan (SEMP) has been prepared for implementation by Kosciuszko Thredbo Pty Ltd (KT) (and its contractors) for the Thredboland and Freeriders Beginner Zone (the Project).

The Project is situated in Thredbo Alpine Resort (Thredbo), approximately 35 kilometres (km) south-west of Jindabyne, New South Wales.

1.1 Purpose

This SEMP has been developed to outline how construction processes for the Project are to be managed in order to maintain and protect the environmental values of the Project site and surrounds.

1.2 Objective

The objectives of this SEMP are to:

- provide mitigation measures to minimise the potential for environmental harm and/or environmental nuisance;
- provide guidance for the development of detailed construction environmental management plans;
- ensure all Project personnel understand individual roles and responsibilities;
- provide corrective actions to be implemented in the event of environmental harm and/or environmental nuisance; and
- ensure Project personnel understand incident and emergency response procedures.

1.3 KT Environmental and Social Sustainability Policy

All activities undertaken by KT will be in accordance with the Company's *Environmental and Social Sustainability Policy* 2021 (KT083).

1.4 Applicable Legislation

The Project will be carried out in accordance with the applicable legislative requirements outlined in the following Acts and subordinate legislation:

- *Environment Protection and Biodiversity Conservation Act 1999 (Cwlth)*;
- *Biodiversity Conservation Act 2016*;
- *Environmental Planning and Assessment Act 1979*;
- *Environmentally Hazardous Chemicals Act 1985*;
- *Heritage Act 1977*;
- *National Parks and Wildlife Act 1974*;
- *Protection of the Environment Operations Act 1997*;
- *Soil Conservation Act 1938*;
- *Waste Avoidance and Resource Recovery Act 2001*;
- *Water Management Act 2000*; and
- *Work Health and Safety Act 2011*.

2 Project Description

The Development will provide a dedicated snowrunner and teaching terrain to be utilised by Snowsports for kids lessons and programs (i.e. Thredboland and Freeriders ski and snowboard programs).

The Development will comprise the following:

- installation of snowrunner, gallery roofing and two (2) operators hut, including minor earthworks;
- construction of Snowsports operations building;
- trenching for electricity and communications cable to service the new snowrunner and Snowsports operations building;
- construction of stairway adjacent to the Mountain access road; and
- extension of an existing gabion retaining wall with a rock retaining wall.

2.1 Project Location

The Project is located within Friday Flat, adjacent to Gunbarrel Bottom Station. The works are located within 40 m of Merritts Creek as shown on **Figure 1**.

2.2 Site Description

The Project site is located within a highly disturbed environment, comprising existing snowmaking infrastructure (i.e. underground pipes and aboveground hydrants and guns). The surrounding environment comprises ski runs, ski lifts, and associated infrastructure and buildings.



Scale: 1:1,555

105 0 10 20 30 40
Meters

Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 2020
Grid: GDA 2020 MGA Zone 55



WATERFRONT LAND AND RIPARIAN CORRIDORS

Project: Thredboland and Freeriders
Beginner Zone

Revision: D

Date: 22/06/2022

Produced By: KO

2.3 Construction Detail and Activities

A summary of the construction program and activities is provided in **Table 1**.

Table 1: Construction Detail and Activities

| Aspect | Details |
|---|---|
| Site Access | The Project site is accessible via Friday Drive and Mountain summer access road. |
| Construction Program and Activities | <p>Pre-construction activities involve site preparation works, which will include:</p> <ul style="list-style-type: none"> • establishment of site boundary/fencing; • erection of site signage and pedestrian/traffic controls; and • installation of erosion and sediment controls. <p>The proposed construction program will comprise the following:</p> <ul style="list-style-type: none"> • installation of snowrunner, gallery roofing and two (2) operators hut, including minor earthworks; • construction of Snowsports operations building; • trenching for electricity and communications cable to service the new snowrunner and Snowsports operations building; • construction of stairway adjacent to the Mountain access road; and • extension of an existing gabion retaining wall with a rock retaining wall. <p>Post-construction activities will comprise:</p> <ul style="list-style-type: none"> • stabilisation and rehabilitation works; • removal of erosion and sediment controls; • demobilisation of plant and machinery; and • site clean-up. |
| Machinery, Plant and Equipment | <p>Construction vehicles and plant will include (but not limited to):</p> <ul style="list-style-type: none"> • 4WD vehicles and utilities; • excavator; • telehandler; and • delivery trucks. |
| Stockpile Sites | The main stockpile locations are identified in Appendix B . Access to these locations will be restricted to KT staff and contractors. Temporary stockpiles may be required within the construction corridor to effectively manage materials during the works. Where required, these sites will be located on disturbed areas and avoid native vegetation. Soil stockpiles will be managed in accordance with the <i>Soil Stockpile Guidelines for the Resort Areas of Kosciuszko National Park</i> (OEH 2017) (Soil Stockpile Guidelines) and ESCP (Appendix C). |
| Site Facilities and Temporary Structures | The site compound will be located at Friday Flat. Existing amenities (e.g. staff room and toilets) at Friday Flat and Gunbarrel will be available for construction staff. There will be no compound or temporary structures within the construction corridor. |
| Project Timing | The anticipated timing for construction is between February – April 2023. Construction is anticipated to take approximately 2-3 months to complete. |
| Working Hours | The working hours for construction will be stipulated in the conditions of consent. |

3 Environmental Management

3.1 Environmental Management Structure and Responsibility

3.1.1 Project Team Structure

The Project team structure is provided in **Figure 2**.

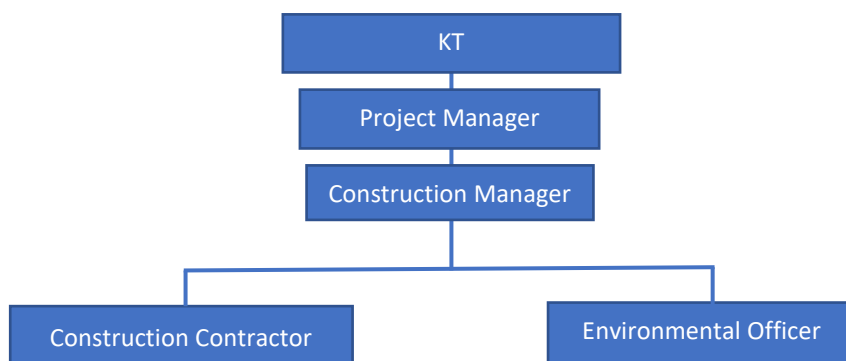


Figure 2: Project Team Structure

3.1.2 Roles and Responsibilities

The roles and responsibilities are outlined in **Table 2**.

Table 2: Roles and Responsibilities

| Role | Responsibilities |
|--------------------------------|---|
| Project Manager | <ul style="list-style-type: none"> ensure the SEMP is made available, communicated, maintained and understood by all Project staff; responsible for the overall management of the construction and operation of the Project; ensure the SEMP is updated with applicable conditions of approval following the provision of Development Consent from DPE; ensure that the requirements of the SEMP and sub-plans have been addressed in all contractor environmental management documentation; review of incidents, non-conformances and non-compliance; and ensuring Project personnel and contractors are adequately trained and qualified to fulfil their roles. |
| Construction Manager | <ul style="list-style-type: none"> implement and maintain the SEMP; ensure all Project personnel comply with the requirements of the SEMP; and report any incidents, non-conformances to the Project Manager. |
| Environmental Officer | <ul style="list-style-type: none"> oversee all works which are part of the Project on behalf of KT; ensure compliance with all environmental protection measures detailed in the SEMP, supporting management plans and conditions of approval; ensure all environmental controls are in place and adequately functioning during construction; and conduct construction inspections and complete reporting requirements e.g. progress reports, environmental incidents, non-compliance, corrective action and auditing. |
| All Personnel | <ul style="list-style-type: none"> comply with requirements of this SEMP; report any actual or potential environmental incidents to the Construction Manager immediately; identify and report non-conforming or potentially hazardous work practices, equipment, machinery or products; only perform tasks for which they are trained and competent; assist with environmental incident investigations and applying corrective actions; and ensure all machinery, plant and equipment are in good working order and condition prior to use. |
| Construction Contractor | <ul style="list-style-type: none"> comply with SEMP and legislative requirements; and construction contractor to develop and implement management plans in accordance with this SEMP, conditions of approval and contractual obligations. |

3.2 Key Contacts

Key contacts for the Project are provided in **Table 3**. Prior to commencement of works, contact details (name and contact number) will be provided for Project personnel.

Table 3: Key Project Personnel Contact Details

| Company / Agency | Role / Reason | Name | Contact |
|--|--|--------------|----------------|
| Key Project Personnel | | | |
| KT | Project Manager | TBC | - |
| KT | Environmental Officer | Brent Bourke | - |
| TBC | Construction Manager | TBC | - |
| Government Agency Contacts | | | |
| Department of Planning and Environment (DPE) (Alpine Resorts Team) | Development approval and compliance | - | (02) 6456 1733 |
| National Parks and Wildlife Service (NPWS) | Flora, fauna, archaeology | - | (02) 6450 5600 |
| Environment Protection Agency (EPA) | Water, noise, air pollution and regulation | - | 131 555 |
| NSW Soil Conservation Service | Soil erosion and sediment control | - | 02 9842 8300 |
| Thredbo Village Services | | | |
| Thredbo Medical Centre | General medical attention | - | (02) 6457 6254 |
| Fire and Rescue Thredbo, NSW | Incident / emergency | - | (02) 6457 6144 |
| Emergency Contacts | | | |
| NSW Police | In case of fire, medical or police emergency | - | 000 |
| NSW Fire and Rescue | | - | |
| NSW Ambulance | | - | |

3.3 Communication

KT is committed to ensuring effective communication and consultation is undertaken to inform the development of this SEMP and ensure it is implemented on-site as per the Project roles and responsibilities in **Section 3.1**. Where required, communication with key external stakeholders such as DPIE and NPWS will be undertaken. A summary of the key consultation activities is provided in **Table 4**.

Table 4: Summary of Consultation Activities

| Consultation Activity | Communication Method | Frequency |
|-----------------------|---|--------------------------------|
| Internal | Site inductions | Prior to commencement of works |
| | Pre-start meetings and toolbox talks | Daily |
| | Reports to Project Manager identifying project progress, any environmental incidents, and review of any complaints or enquiries | Weekly |
| External | Face-to-face meetings, phone and email correspondence with relevant Government Departments / Agencies | As required |
| | In-writing notifications to Government Departments / Agencies and relevant parties | As required |

3.3.1 Notification Protocols

A summary of the key notification protocols is provided in **Table 5**. Notification requirements will be updated as required.

Table 5: Regulatory Agency Notification Protocols

| Party to Notify | What to Notify | When to Notify | Responsibility to Notify Regulatory Agency |
|-------------------------------------|--|---|--|
| DPE | Commencement of construction | DPE will be notified in writing at least 48 hours prior to the commencement of construction. | Project Manager |
| NPWS | Details of any material suspected of being a European or Aboriginal culturally significant site, relic or artefact. | Immediately upon discovery of any archaeological/culturally significant site or relic that are encountered. NSW Police to also be notified immediately upon discovery of human remains. | Project Manager |
| NSW Environmental Protection Agency | Details of pollution incident – who, what, when, where, how, any other supporting information and evidence (e.g. photos) | Immediately upon identification of pollution incident causing or threatening material harm to the environment, in accordance with KT's Construction site Incident and Emergency Procedures Thredbo Village 2021/2022 . | KT Environmental Manager |

3.4 Competence and Training

All Project staff will be made aware of the site-specific environmental controls through a site induction, and pre-start meetings / toolbox talks prior to the commencement of construction.

The site induction will cover the following key aspects:

- roles and responsibilities;
- overview of environmental risks and specific locations of environmental and/or cultural heritage significance;
- the scope of legislative requirements and other licences and approvals;
- communication and notification requirements e.g. procedures for notifying and reporting incidents and complaints;
- environmental management and controls stipulated in this SEMP;
- workplace health and safety issues;
- emergency preparedness and response; and
- procedures for notifying and reporting incidents and complaints.

3.5 Environmental Incident and Emergency Response

All Project personnel are required to follow KT's **Construction site Incident and Emergency Procedures Thredbo Village 2021/2022**. The procedure will be available on-site and all Project staff will be trained on their implementation through the site induction. The procedure classifies examples of emergencies and incidents and provides specific procedures for response to such events, such as:

- serious injuries requirement urgent medical help;
- there are threats to property or life;
- criminal activity e.g. you have witnessed a serious crime or accident;

- sewer or water service breaks;
- bushfire, building fire, spot fire on-site;
- electricity service faults;
- leaking gas;
- fires and explosions; and
- release of pollution e.g. release of sediment into watercourse, chemical spill.

The procedure also outlines general site management principles, incident reporting and notification requirements and provides an emergency contacts list.

In the event of an environmental incident, emergency or near-miss, the following steps should be taken:

- 1) **STOP** works in the area and if safe to do so ensure the safety of personnel within the vicinity;
- 2) **NOTIFY** relevant persons e.g. emergency services or Construction Manager;
- 3) **ISOLATE** the risk or hazard e.g. turn off machinery/plant, implement immediate site controls, set up exclusion zone; and
- 4) **REPORT** and notify relevant persons (e.g. Project Manager, regulatory agencies).

Environmental incident and near-miss reporting requirements are detailed in **Section 7.1**. Contact details for key Project personnel and emergency services are provided in **Table 3**.

External contractors are required to prepare and implement an emergency and incident response procedure. The contractor will be responsible for responding to any environmental emergency caused by any action (or inaction) of the contractor's staff, including notification requirements to external parties such as EPA and Fire, Fire and Rescue NSW.

4 Risk Assessment

To ensure that potential environmental risks are identified and managed, an environmental risk review has been included in **Table 6**. A risk matrix (**Appendix A**) was used to consider the likelihood and consequence of impacts identified in the SEE (KT 2022).

Table 6: Environmental Risk Assessment

| Aspect | Activity / Project Phase | Potential Impact | Inherent Risk | | | Controls | Residual Risk | | |
|--|--------------------------|---|---------------|-------------|-------------|---|---------------|-------------|-------------|
| | | | Likelihood | Consequence | Risk Rating | | Likelihood | Consequence | Risk Rating |
| Injury/death to fauna as a result of earthworks and construction | Earthworks; construction | Loss in population of fauna. | 2 | 2 | Low (4) | Flora and Fauna Management (Section 5.3) | 2 | 1 | Low (2) |
| Release of sediments and soils through disturbance of land | Earthworks; stockpiling | Loss of topsoil, reduction in water quality from the release of sediment laden water. | 3 | 3 | Mod (9) | Soil and Water Quality Management (Section 5.2 & Appendix C) | 2 | 3 | Mod (6) |
| Rehabilitation of disturbed areas | Rehabilitation | Failure of rehabilitation and stabilisation works resulting in increased erosion. | 2 | 3 | Mod (6) | Flora and Fauna Management (Section 5.3) | 2 | 2 | Low (4) |

| | | | | | | | | | |
|--|--|--|---|---|---------|---|---|---|--------------|
| Introduction and/or proliferation of weed/pest species in vehicles, plant, shoes and materials | All Project phases | Loss of biodiversity. | 2 | 2 | Low (4) | Biosecurity Management (Section 5.4) | 2 | 1 | Low (2) |
| Storage and disposal of waste | All Project phases | Increase in pest numbers; impacts to road users and/or the environment from vehicles with unsecured loads. | 3 | 2 | Mod (6) | Waste Management (Section 5.5) | 2 | 2 | Low (4) |
| Generation of dust through movement of vehicles and plant | Removal of topsoil, stockpiling, excavating and backfilling. | Sensitive land users identified within 50 m of site (i.e. River Inn and tourist accommodation in Woodridge). Potential nuisance or health impacts from the release of dust on land users from the works are considered to be negligible. | 2 | 2 | Low (4) | Air Quality Management (Section 5.7) | 2 | 1 | Low (2) |
| Leak or spill of fuel or oil from fuel storage, plant and vehicles | Earthworks; removal / installation of infrastructure. | Land and water contamination caused by the release of hydrocarbons. | 2 | 3 | Mod (6) | Fuels, Chemicals and Hazardous Substance Management (Section 5.8) | 2 | 2 | Low (4) |
| Release of noise and/or vibrations through use of heavy/loud plant or equipment | Earthworks; construction activities | Noise and/or vibration nuisance experienced by land users within 50 m of the site resulting from the use of heavy/loud plant or equipment. | 2 | 2 | Low (4) | Noise and Vibration Management (Section 5.6) | 2 | 1 | Low (2) |
| Transport and loading/unloading of goods and materials and equipment and plant operation | All Project phases | Sensitive land users identified within 50 m of the site. Potential noise impacts on sensitive land uses considered negligible. | 2 | 2 | Low (4) | Noise and Vibration Management (Section 5.6) | | | Low (2) |
| Excavation works | Earthworks | Potential damage or destruction of unknown Aboriginal or European cultural heritage items or sites; loss of cultural heritage values. Considered unlikely due to significant disturbance within Project footprint. | 2 | 2 | Low (4) | Cultural Heritage Management (Section 5.9) | 2 | 1 | Low (2) |
| Construction vehicles and plants utilising existing road network | All Project phases | Inconvenience to existing transport networks/potential traffic impacts from the works are considered to be low. | 2 | 1 | Low (2) | Traffic and Transport Management (Section 5.10) | 1 | 1 | Very low (1) |

5 Mitigation and Management Measures

To mitigate and manage potential Project impacts identified in the risk review (**Table 6**), the following environmental management activities and controls will be implemented.

A SEMP checklist is provided in **Appendix D** which specifies the timing/frequency for implementation of controls, responsibilities and verification/sign-off. The checklist comprises general environmental management controls and will be updated following the provision of development consent and conditions of approval to ensure all site-specific requirements are met. The checklist should be completed prior to, during and post construction.

5.1 General

The following measures will be implemented:

- ensure works are conducted by suitably qualified and trained personnel;
- ensure all site environmental management controls relevant to that stage of work are implemented in accordance with the approved plans and conditions of consent (refer **Appendix D** for controls checklist);
- provide approved plans and relevant documentation in the site office or other suitable location so that they are easily assessable by all construction staff; and
- prior to commencement of works, the construction corridor will be temporarily fenced, roped or flagged to clearly delineate the construction area and no-go zones.

5.2 Soil and Water Quality

| Soil and Water Quality Management | |
|-----------------------------------|---|
| Objective | Minimise potential impacts to receiving water sources. Reduce the potential for erosion and sediment moving offsite. |
| Mitigation Measures | <p><i>General / erosion and sediment control principles</i></p> <ul style="list-style-type: none"> • where required, drainage, erosion and sediment controls (ESCs) to be designed and installed in accordance with Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition (Landcom 2004), refer Appendix C for installation notes; • all erosion and sediment control measures are to be checked regularly to ensure they remain in good working order at all times (e.g. prior to forecast rain, daily during extended periods of rainfall and after significant rainfall events); • all reasonable and practicable efforts will be taken to delay the disturbance to existing ground cover (organic or inorganic) prior to land-disturbing activities; <p><i>Trenches</i></p> <ul style="list-style-type: none"> • backfill will be placed at equivalent compaction of the surrounding soil with an excavator to minimise possibility of soil subsidence; and • where trenches are left open overnight, egress points for fauna (e.g. timber ramps) will be installed. <p><i>Excavations</i></p> <ul style="list-style-type: none"> • ensure excavation depths and widths are the minimum necessary; and • divert surface water away from excavation openings. <p><i>Soil and stockpile management</i></p> <ul style="list-style-type: none"> • all stockpiles will be constructed and managed in accordance with <i>Soil Stockpile Guidelines for the Resort Areas of Kosciuszko National Park</i> (OEH 2017); • any excess excavated material will be removed from site and transported to the designated soil stockpiles sites; and • temporary stockpile sites within the construction corridor should adhere to the following criteria (Landcom 2004; OEH 2007): <ul style="list-style-type: none"> – not exceed 2 m in height, have a slope <50% (26°) – be at least 2 m from vegetation, concentrated water flows, roads, publicly accessible areas or hazardous areas |

| | |
|-----------------------------|--|
| | <ul style="list-style-type: none"> – avoid impacts to native vegetation and be located on disturbed areas – located directly adjacent to the works – located on relatively flat ground, where possible – in areas with sufficient room to accommodate the volume of material being stockpiled – be contained by appropriate ESCs. |
| Performance Criteria | No significant sediment deposition observed leaving the site. |
| Corrective Actions | If sediment is observed leaving the site, identify the source and amend the ESCs on-site to ensure appropriate controls are in place. If required, additional ESCs to be installed. |

5.3 Flora and Fauna

| Flora and Fauna Management | |
|-----------------------------|--|
| Objective | <p>Minimise potential impacts to native flora.</p> <p>Minimise potential impacts to native fauna, their breeding places and habitat.</p> <p>Minimise the introduction or proliferation of invasive species.</p> <p>Rehabilitate the site as soon as possible following completion of works to restore the habitat.</p> |
| Mitigation Measures | <p><i>General</i></p> <ul style="list-style-type: none"> • the construction works will be confined to the approved construction corridor; • reasonable and practicable native fauna management measures will be implemented during construction to avoid environmental harm and nuisance to native fauna, known habitats and breeding places; • maintain a clean and tidy work area to ensure animals are not attracted to the site, including provision of covered bins during proposed works; • all reasonable and practicable measures must be taken to minimise the disturbance to trees, shrubs and ground covers outside of the construction corridor (adjacent to Gunbarrel Bottom Station); <p><i>Rehabilitation</i></p> <ul style="list-style-type: none"> • all exposed areas shall be progressively stabilised/rehabilitated; • all straw bales used for mulching must be certified as weed free; • all ESC measures will remain in place until all exposed areas of soil are stabilised and/or revegetated; and • all rehabilitation will be undertaken in accordance with the Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park (DECC 2007). |
| Performance Criteria | No death or injury to fauna as a result of on-site activities. No disturbance outside the approval disturbance area. |
| Corrective Actions | <ul style="list-style-type: none"> • review and implement suitable strategies to dissuade fauna from coming to site; and • contact NPWS / LAOKO if injured fauna is identified as a result of site activities. |

5.4 Biosecurity

| Biosecurity Management | |
|-----------------------------|--|
| Objective | Reduce the risk of introducing invasive pest species. |
| Mitigation Measures | <ul style="list-style-type: none"> • prior to the commencement of construction works, all weed species identified within the construction corridor will be treated in accordance with best practice methods to ensure these weeds are not spread further within the site or throughout KNP; • project machinery and vehicles to arrive/depart from KNP and the Project site in a clean condition, free of mud and vegetative propagules and pathogens; • all vehicles and machinery entering Thredbo must adhere to the Standard Operating Procedure: Use and Maintenance of Wash Down Bay, March 2019 (KT055) which requires all vehicles and machinery to utilise the weed wash-down bay prior to entering site to ensure no new weed seeds are introduced to the site and KNP; • machinery to be regularly maintained and manoeuvred to prevent the spread of weeds and pathogens; and • storage of plant and machinery is to be restricted to the designated disturbed areas within the construction corridor. |
| Performance Criteria | No introduction of invasive species as a result of construction activities. |
| Corrective Actions | Review existing biosecurity procedures (e.g. clean down procedure) and implement additional controls if required. |

5.5 Waste

The Project will generate the following waste streams:

- general solid waste (putrescible) – waste from litter bins, food waste; and
- general solid waste (non-putrescible) –plastic, paper, cardboard, demolition and construction waste (e.g. excess building materials).

The following waste receptacles will be provided for the storage and disposal of waste associated with the construction of the Project:

- general litter bins for waste such as food waste and non-recyclable plastic;
- recycling bins for waste such as cardboard packaging, paper, recyclable plastic;
- skip bins; and
- KT's waste transfer facility (materials to be segregated for re-use, recycling etc.).

Excess spoil from excavations will be taken off-site and placed within the resort's existing stockpile area located at the carpark adjacent to the Thredbo Waste Transfer Station for re-use within the resort.

| Waste Management | |
|-----------------------------|---|
| Objective | Minimise construction waste as much as practicable. Reduce the impact of waste on-site and beyond the site boundary. |
| Mitigation Measures | <ul style="list-style-type: none"> • all building and construction waste onsite to be minimised in the first instance • all waste will be managed and disposed of in accordance with the KT's waste management procedures; • where possible, construction materials will be salvaged for reuse to divert waste from landfill; • all waste will be separated into waste streams and contained within appropriate receptacles and/or disposed of in accordance with the EPA guidelines; • all receptacles will be in good condition; and • all waste transportation vehicles will be covered appropriately to ensure waste cannot spill, leak or escape onto the road or wash into stormwater drains. |
| Performance Criteria | No litter or waste material to be released from site in an uncontrolled manner. |
| Corrective Actions | <ul style="list-style-type: none"> • investigate cause of inappropriate waste disposal/management; • review on-site waste handling facilities and implement corrective actions e.g. change in receptacle size and/or waste management signage; • if required, implement administrative controls e.g. additional waste management training for staff. |

5.6 Noise and Vibration

| Noise and Vibration Management | |
|--------------------------------|--|
| Objective | Minimise potential noise and vibration nuisance in the surrounding environment. |
| Mitigation Measures | <ul style="list-style-type: none"> • project staff will take reasonable and practicable management measures to avoid and mitigate environmental nuisance from noise associated with the works; • works will be undertaken during standard work hours as stipulated in the conditions of approval; and • appropriate noise management strategies will be implemented for construction works and operation of plant in accordance with the Australian Standard AS 2436-2010 <i>Guide to noise and vibration control on construction, demolition and maintenance sites</i> and the <i>Interim Construction Noise Guideline</i> (DECC 2009) e.g. ensure plant is regularly maintained, and repair or replace equipment that becomes noisy, turn off plant that is not being used. |
| Performance Criteria | No construction related noise and vibration complaints received. |

| | |
|---------------------------|--|
| Corrective Actions | <p>If complaints are received, the following steps will be taken:</p> <ul style="list-style-type: none"> investigate specific cause of complaint; review site activities/processes and identify the source of the noise emissions; implement immediate corrective actions e.g. swap out noisy equipment; and if required, implement administrative controls e.g. additional staff training or change work hours to minimise noise. |
|---------------------------|--|

5.7 Air Quality

| Air Quality Management | |
|-----------------------------|--|
| Objective | Minimise potential impacts to the existing air quality in the surrounding environment. |
| Mitigation Measures | <ul style="list-style-type: none"> construction staff will take reasonable and practicable measure to prevent dirt and dust from affecting the amenity or the surrounding environment during construction e.g. minimise the area of soil disturbance; plant and equipment to be maintained and operated in an efficient manner to reduce air pollution; all vehicles carrying spoil or rubble to/from site should be covered to prevent the escape of dust or other material; and when there is a risk of works creating dust nuisance, the Project site is to be watered. |
| Performance Criteria | No complaints received in relation to air pollution. |
| Corrective Actions | <p>If complaints are received, the following steps will be taken:</p> <ul style="list-style-type: none"> investigate specific cause of complaint; review site activities/processes and identify the source of air emissions; implement immediate corrective actions on-site e.g. water site, replace equipment deemed to be poorly maintained; and if required, implement administrative controls e.g. additional staff training, alter construction methods or timing for undertaking dust generating activities. |

5.8 Fuels, Chemicals and Hazardous Substances

| Fuels, Chemicals and Hazardous Substances Management | |
|--|---|
| Objective | Eliminate the potential for release of fuels, chemicals and hazardous substances to the environment. |
| Mitigation Measures | <ul style="list-style-type: none"> in the event on an on-site spill, construction staff will follow KT's Construction Site Incident and Emergency Procedures Thredbo Village, 2021/2022; a copy of KT's Thredbo Spill Kit Map (June 2019) will be available on-site and all Project staff will be made aware of their locations in the site induction; hazardous substances, toxic materials or dangerous goods must not be stored or processed on-site at any time without prior approval from the DPE Secretary or nominee; hazardous chemicals will be appropriately labelled in accordance with the <i>Code of Practice: Labelling of Workplace Hazardous Chemicals, August 2019</i> (NSW Government 2019); hazardous chemicals will be managed in accordance with the <i>Code of Practice: Managing risks of hazardous chemicals in the workplace, August 2019</i> (NSW Government 2019); and appropriate controls will be implemented when refuelling Project vehicles and machinery. |
| Performance Criteria | No fuel, chemical or hazardous substance spills. |
| Corrective Actions | Corrective actions will be taken in accordance with the Construction Site Incident and Emergency Procedures Thredbo Village, 2021/2022 , including: immediate spill response, implementation of any necessary control measures as directed by authorities. Where required, an investigation will be undertaken to determine the root cause. |

5.9 Cultural Heritage

| Cultural Heritage Management (Indigenous and Non-indigenous) | |
|--|--|
| Objective | Minimise potential impacts on places and objects of cultural heritage significance |
| Mitigation Measures | <ul style="list-style-type: none"> all project personnel will be made aware of their obligations in relation to the management of cultural heritage via the site induction; project staff will take all reasonable and practicable measures to avoid harm to cultural heritage; and where unexpected items of potential archaeological, built or Aboriginal cultural heritage significance are discovered, Project personnel will follow the below procedure: <ul style="list-style-type: none"> STOP: Stop work and leave the site or item where it is. NOTIFY: Notify the Project Manager and NPWS to arrange for representatives to inspect the site. If human remains are found, the NSW Police must also be notified. MANAGE: Management may involve securing the find by erecting a no-go zone. REPORT: The Project Manager will complete any reporting requirements, as directed by NPWS. |
| Performance Criteria | No loss of cultural heritage values. |
| Corrective Actions | If a suspected item/artefact of Aboriginal, built or archaeological cultural heritage significance is encountered, follow procedure above – Stop, notify, manage and report. All Project personnel to be made aware of any additional management requirements e.g. no-go zones. |

5.10 Traffic and Transport

| Traffic and Transport Management | |
|----------------------------------|---|
| Objective | Minimise potential impacts on existing road network |
| Mitigation Measures | <ul style="list-style-type: none"> traffic and construction vehicle access will be managed as per regular daily operation in the resort; all construction vehicles to enter/exit site via the mountain access road; and mountain bike trail users and pedestrian access will be excluded from the construction corridor via use of signage and exclusion flagging / fencing. |
| Performance Criteria | <ul style="list-style-type: none"> no impacts to existing road network or users; and no complaints in relation to traffic or vehicle operators. |
| Corrective Actions | If complaints are received, traffic management procedures will be reviewed and amended (if necessary). |

6 Monitoring and Review

6.1 Environmental Monitoring

The Environmental Officer will conduct monitoring during all Project phases (pre-construction, during construction and post-construction) to ensure compliance with this SEMP, associated management plans and conditions of approval (refer **Appendix D** for SEMP checklist).

The Environmental Officer will also undertake weekly inspections utilising the **Weekly Inspection Report (Appendix E)**.

6.2 SEMP Review

This SEMP is a live document and will undergo reviews and amendments as necessary. Reviews will generally be undertaken –

- if there is a change in the scope of the Project;
- prior to commencement of construction to ensure any relevant conditions of consent and/or other approval, licence or permit requirements are incorporated;
if there is a need to improve environmental controls to protect environmental values;
- if there is an increase or introduction of a new environmental risk or impacts; and
- at the end of a Project to allow for improvements in subsequent Projects.

The Environmental Officer will be responsible for reviewing the SEMP and the Project Manager is responsible for approving these changes.

7 Reporting

7.1 Weekly Environmental Reporting

The Environmental Officer will provide copies of the **Weekly Inspection Report (Appendix E)** to the Project Manager on a weekly basis. All records will be stored within KT's files and distributed to relevant persons / regulatory authorities as required.

The Environmental Officer will report on the effectiveness of drainage, erosion and sediment controls using the **Erosion and Sediment Control Inspection Report (Appendix E)**. The report forms part of the weekly environmental inspections and will be provided to the Project Manager with weekly internal reporting requirements.

7.2 Environmental Incident Reporting

All incidents and near misses will be managed in accordance with KT's **Construction site Incident and Emergency Procedures Thredbo Village 2021/2022**. The document provides procedures for responding to incidents and emergencies, reporting and notification requirements and emergency contacts.

The following information should be recorded:

- time and date of the incident / near miss;
- a description of the incident / near miss;
- a sequence of events that led to the incident / near miss occurring;
- person/s involved in the incident / near miss (including witnesses);

- written statements from person/s involved (as applicable); and
- details of corrective actions.

The **Environmental Incident Report Form (KT068) (Appendix E)** should be completed for all environmental incidents. All parts of the form must be completed in accordance with KT's incident procedure and following the instructions within the form. The form must be signed by the person making the report and the Project Manager/person in charge of the site/activity.

7.3 Complaints Management

Should complaints be received from the public in relation to the Project they will be recorded using the **Complaints Form (Appendix E)**. The Project Manager will be responsible for investigating, recording and closing out any complaints received. All records will be stored within KT's files and distributed to relevant persons / regulatory authorities as required.

7.4 Non-conformance

A non-conformance is the failure to comply with the requirements of this SEMP and supporting management plans. Non-conformances identified via site inspection or during day to day activities will be documented on the **Environmental Weekly Inspection Form (Appendix E)** and closed out in subsequent inspections. The Environmental Officer is responsible for investigation and managing corrective and preventative actions in the event of non-conformance or a situation likely to cause environmental harm.

7.5 Corrective Actions

Corrective actions should be prioritised on the following hierarchy of controls:

1. **elimination** – can activities and processes be eliminated to reduce the risk of reoccurrence?
2. **substitution** – can activities be substituted with another activity of lesser risk?
3. **isolation** – can you isolate the hazard from any person exposed to it?
4. **engineering controls** – can you reduce the risk of reoccurrence through engineering changes?
5. **administrative controls** – can a change in work practices, additional training or additional checks reduce the risk?
6. **personal protective equipment (PPE)** – can PPE be worn to protect personnel from harm?

The Construction Manager will be responsible for managing the implementation of corrective actions on-site.

7.6 Document Control

All Project related documentation will be maintained within KT's Project file. Documents stored within the file include (but not limited to) the following:

- copies of relevant planning approvals and documents, licences and permits;
- all completed induction forms and visitor sign-on register;
- records of routine environmental inspections; and
- records of any environmental incidents, complaints, non-conformances and non-compliances.

8 References

DECC 2007, *Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park*, NSW Department of Environment and Climate Change.

DECC 2009, *Interim Construction Noise Guideline*, July 2009, NSW Department of Environment and Climate Change, <https://www.epa.nsw.gov.au/-/media/epa/corporate-site/resources/noise/09265cng.pdf?la=en&hash=EF4576FD79DBB25D5AC22DFA1A883A2BADA1F77B>

DIPNR 2004, *Guideline for the Preparation of Environmental Management Plans*, NSW Department of Infrastructure, Planning and Natural Resources, <https://www.planning.nsw.gov.au/~media/Files/DPE/Guidelines/guideline-for-the-preparation-of-environmental-management-plans-2004.ashx?la=en>

DPE 2017, *What to include with your development application*, version January 2017, NSW Department of Planning & Environment, <https://www.planning.nsw.gov.au/Policy-and-Legislation/~media/65E2BA89886F426991525FF25707A9A9.ashx>

Heritage NSW 2021, *Propose Aboriginal places and items for protection*, viewed 08 November 2021, <https://www.heritage.nsw.gov.au/protecting-our-heritage/nominating-an-aboriginal-place/>

KT 2022, *Statement of Environmental Effects – Thredboland and Freeriders Beginner Zone Project*, Kosciuszko Thredbo Pty Ltd.

OEH 2017, *Soil Stockpile Guidelines for the Resort Areas of Kosciuszko National Park, version 1.0, October 2017*, NSW Office of Environment and Heritage, National Parks and Wildlife Service.

9 Appendices

Appendix A Risk Matrix

Likelihood and consequence is defined as follows:

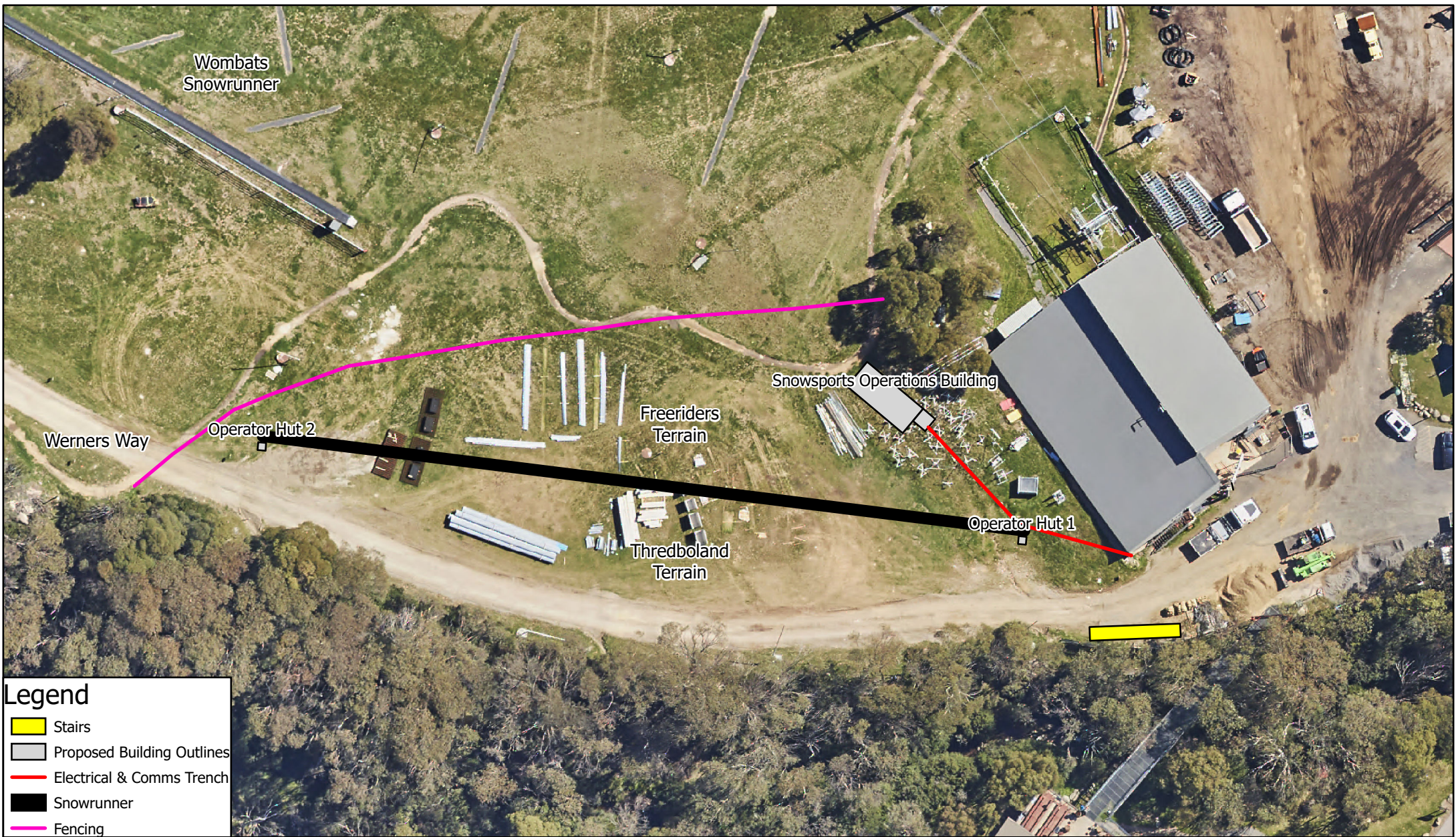
- **Likelihood:** the chance that something might happen; and
- **Consequence:** the outcome of an event which may have the potential to change the existing environmental values.

| Likelihood | Consequence | | | | |
|--------------------|--------------|--------------|--------------|--------------|-------------------|
| | Extreme (5) | Major (4) | Moderate (3) | Minor (2) | Insignificant (1) |
| Almost certain (5) | Extreme (25) | Extreme (20) | Extreme (15) | High (10) | Moderate (5) |
| Likely (4) | Extreme (20) | Extreme (16) | High (12) | Moderate (8) | Low (4) |
| Possible (3) | Extreme (15) | High (12) | Moderate (9) | Moderate (6) | Low (3) |
| Unlikely (2) | High (10) | Moderate (8) | Moderate (6) | Low (4) | Low (2) |
| Rare (1) | Moderate (5) | Low (4) | Low (3) | Low (2) | Very low (1) |

| Likelihood Rating | | Definitions |
|-------------------|---|---|
| Rare | 1 | Unlikely to occur during a lifetime or very unlikely to occur |
| Unlikely | 2 | Could occur but considered unlikely |
| Possible | 3 | Might occur at some time |
| Likely | 4 | Will probably occur |
| Almost certain | 5 | Is expected to occur in most circumstances |

| Consequence Rating | | Definitions |
|--------------------|---|---|
| Insignificant | 1 | Very low environmental impact confined to a small area within the Project area. Prompt (typically within a shift) clean-up. |
| Minor | 2 | Low environmental impact confined within the Project area. Short-term (typically within a week) clean-up. |
| Moderate | 3 | Reversible offsite environmental impact, requiring short-term clean-up (weeks). On-site medium term (weeks) clean-up. |
| Major | 4 | Major, offsite, environmental impact requiring medium-term clean-up (months). On-site impact requiring significant clean-up effort (months). |
| Extreme | 5 | Prolonged or severe, offsite or regional environmental impact requiring long-term clean-up (years) with irreversible residual damage. Extensive, Project area impact requiring long-term clean-up and recovery (years). |

Appendix B Figures and Maps



Scale: 1:637

7.5 3.75 0 7.5 15 22.5 30 Meters

Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 2020
Grid: GDA 2020 MGA Zone 55



SITE LAYOUT

Project: Thredboland and Freeriders
Beginner Zone

Revision: D

Date: 22/06/2022

Produced By: KO



Figure B1: Main stockpile locations located at the Thredbo Waste Transfer Station

Appendix C Erosion and Sediment Controls

Appropriate drainage, erosion and sediment controls will be required to manage soil and surface water during the construction of the development. A summary of proposed controls and associated requirements are outlined below.

| Activity | Control | Purpose | Timing | Location | Materials required |
|----------------------------|--------------------------------------|---|--|--|---|
| Excavations, trenching | Sediment fence | To prevent sediment run-off | Where required, installed prior to commencement of activity and retained in place until exposed areas of soil are stabilised / rehabilitated | Downslope side of any excavations; wetter areas of trenches | Geotextile fabric (non-woven) or silt fence, star pickets/wooden stakes |
| Trenching | Straw bale filter fencing | To prevent sediment run-off | Where required, during excavation of trenches | Drier areas of trenches, across or at the toe of slope | Straw bales; support posts/stakes; geofabric |
| Construction nearby drains | Silt fencing; Straw bales; Coir logs | Protect drains from heavy flows and sediment movement. | Prior to ground disturbance in these areas | Immediately down-slope of the construction activity / excavation | Coir logs; stakes; geotextile fabric (non-woven) or silt fence; straw bales |
| Down-slope excavations | Straw bales | Divert water around and away from open excavation works | Installed once the trenches have been excavated and retained in place until excavations are stabilised/rehabilitated | To be placed at each end of the open trenches | Straw bales; stakes |
| Cross-slope excavations | Straw bales; Coir logs | Divert water around and away from excavation works | Installed once trenches have been excavated, where required | To be installed on the uphill side of excavations running cross-slope (where required) | Straw bales; stakes; coir logs |

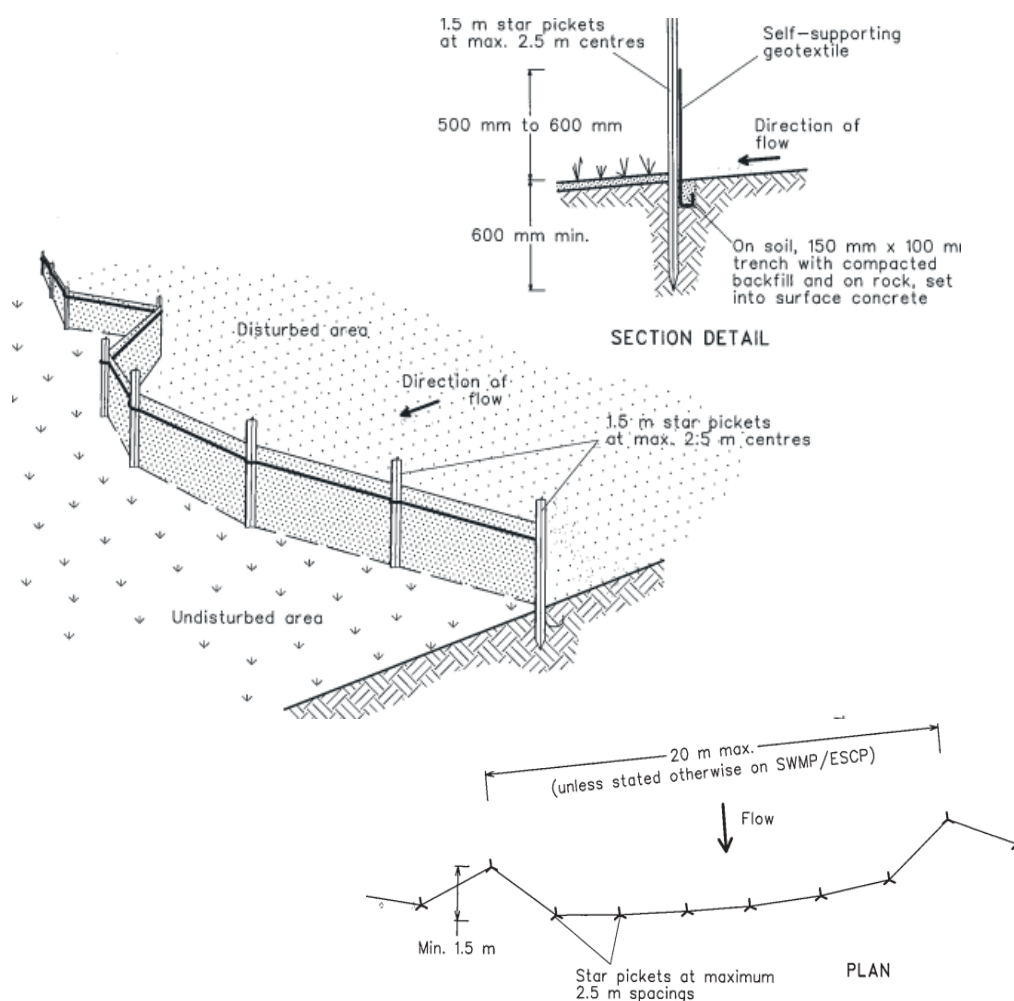
**Refer to subsequent sections for control installation notes*

Control Installation Notes

Sediment Fence

Construction notes:

- 1) Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns to limit the catchment area of any one section. **The catchment area should be small enough to limit water flow if concentrated at one point to 50 L/s in the design storm event, usually the 10-year event.*
- 2) Dig a 150 mm deep trench along upslope line of fence for the bottom of the fabric to be entrenched.
- 3) Install 1.5 m long star pickets into ground at 2.5 m intervals (max) on the downslope edge of the trench. **Fit star pickets with safety caps.*
- 4) Fix geotextile to the upslope side of the posts ensuring it goes to the base of the trench.



Standard Sediment Fence Installation (Source: Landcom 2004)

Cross Drainage and Sediment Barriers

The recommended spacing for cross drainage and sediment barriers is provided below:

| Slope Grade (%) | Cross Drain / Sediment Barrier (m) |
|-----------------|------------------------------------|
| 5-10 | 15-20 |
| 10-15 | 10-15 |
| 15-25 | 8-10 |
| >25 | 5-8 |

Source: NPWS 2007; Parr-Smith and Polley (1998)

Note: To calculate the grade of a slope: (rise/run) x 100 = slope grade

Coir Logs

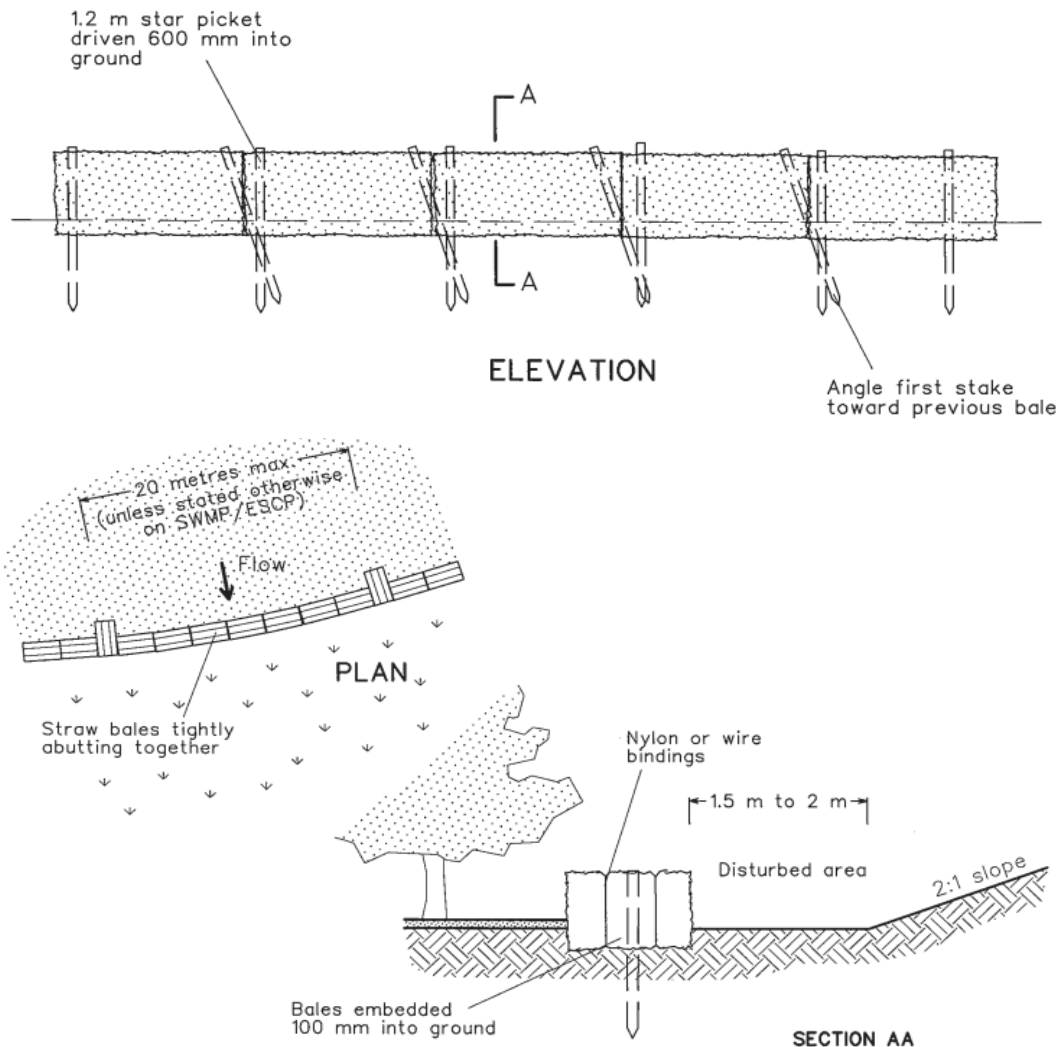
Construction notes:

- 1) Secure logs by driving the stakes between the outer netting and the core material each side of the logs and secured into the ground (not through centre of log).
- 2) Ensure spacing of stakes does not exceed an interval of 1 m.
- 3) Once driven into ground, the stakes should sit at least two-thirds below the ground and one-third above.

Straw Bale Filter

Construction notes:

- 1) Construct the straw bale filter as close as possible to being parallel to the contours of the site.
- 2) Place bales lengthwise in a row with ends tightly abutting (1 bale = max height of filter). Fill gaps between bales with straw and wrap with geofabric where necessary.
- 3) Embed each bale in the ground 75-100 mm and anchor with two 1.2 m stakes/star picket. Angle the first stake in each bale towards the previously laid bale. Stakes should be driven 600 mm into ground, sitting flush with top of bale (if possible). **If using star pickets which protrude above bales, fit with safety caps.*
- 4) Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1-2 m downslope from the toe.

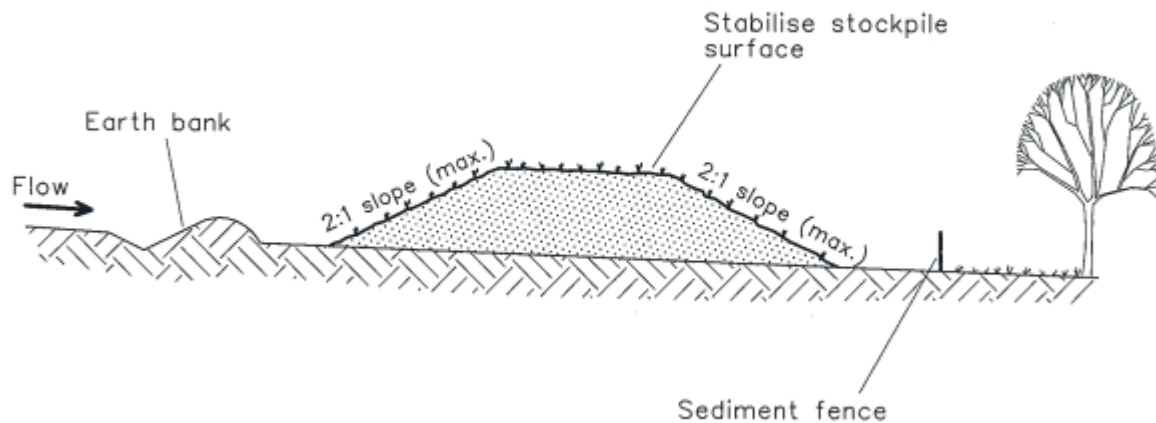


Standard Straw Bale Filter Installation (Source: Landcom 2004)

Soil Stockpile Management

Construction notes:

- 1) Stockpiles should be located at least 2 m (preferably 5 m) from existing vegetation and waterbodies, concentrated water flows, roads and hazard areas. Recommended location within weed free, disturbed area if possible.
- 2) Construct stockpiles as low, flat mounds (<2 m high) with a slope <50% (26°).
- 3) Install appropriate sediment controls (e.g. sediment barriers 1-2 m downslope) around stockpiles.
 - It is recommended to cover stockpiles (e.g. with anchored geofabric) during strong wind or high rainfall events.
 - Straw bales used for sediment and erosion control must be certified weed free.



Stockpile Management (Source: Landcom 2004)

Appendix D Environmental Management Activities and Controls Checklist

| Environmental Management Activities and Controls Checklist | | | | | | |
|--|-----------------------|--|--------------------|----------|---------------------|----------|
| Project Name: | | | Location: | | | |
| Environmental Management Control | Responsibility | Timing / Frequency | Date of Completion | Sign Off | Reference | Comments |
| General | | | | | | |
| Site inductions have been provided to all Project personnel on-site. | Project Manager | Pre-construction | | | | |
| All Project personnel have undergone relevant training / hold relevant permits and qualifications to perform their role. | Project Manager | Pre-construction | | | | |
| Construction site boundary and no-go zones have been clearly delineated. | Construction Manager | Pre-construction | | | | |
| Site access to be restricted to authorised personnel. | Construction Manager | During construction | | | | |
| All plant, materials and equipment to be located in existing disturbed corridors. | Construction Manager | During construction | | | | |
| All plant and equipment to be removed off-site post-construction. | Construction Manager | Upon completion | | | | |
| Maintain incident and complaints register. | Project Manager | During construction | | | | |
| Maintain copies of inspection and monitoring reports. | Environmental Officer | During construction | | | | |
| Soil and Water Quality | | | | | | |
| ESCs to be inspected each day and prior to, and immediately following a significant rainfall event to ensure controls are in good working condition. ESCs designed and installed in accordance with best practice. | Construction Manager | During construction (daily / following significant rainfall event) | | | Appendix C of SEMP | |
| Stockpiles are managed appropriately in accordance with the Soil Stockpile Guidelines | Construction Manager | During construction | | | Appendix C of SEMP | |
| Flora and Fauna | | | | | | |
| Ensure equipment and construction materials are stored on previously disturbed areas to avoid impacts to native vegetation. | Construction Manager | All Project phases | | | Section 5.3 of SEMP | |

| | | | | | | |
|--|--|---------------------------------------|--|--|----------------------------|--|
| Reasonable and practicable native fauna management measures have been undertaken to avoid environmental harm and nuisance to native fauna, known habitats and breeding places. | Construction Manager / Environmental Officer | Pre-construction, during construction | | | Section 5.3 of SEMP | |
| Maintain a clean and tidy work area to ensure animals are not attracted to the site, including provision of covered bins during proposed works. | Construction Manager | During construction | | | Section 5.3 of SEMP | |
| Biosecurity | | | | | | |
| All weed species that occur within the construction corridor and could spread through disturbance or seed dispersion are treated. Follow up weed control to be carried out if deemed necessary. | Environmental Officer | Pre-construction, during construction | | | Section 5.4 of SEMP | |
| Machinery and personnel to arrive at and depart from the site in a clean condition, free of mud and vegetative propagules. | Construction Manager | Pre-construction, during construction | | | Section 5.4 of SEMP | |
| Machinery to be regularly maintained and manoeuvred to prevent the spread of weeds and pathogens. | Construction Manager | Pre-construction, during construction | | | Section 5.4 of SEMP | |
| Rehabilitation | | | | | | |
| All disturbed areas to be progressively stabilised and/or revegetated in accordance with the Rehabilitation Plan (and in consultation with the Environmental Officer) so that no areas remain exposed if works are completed in that area. | Construction Manager | During construction | | | Section 5.3 of SEMP | |
| Disturbance areas are to be rehabilitated immediately following the completion of works. | Construction Manager | Post-construction | | | Section 5.3 of SEMP | |
| Waste | | | | | | |
| Site is free from litter and waste is contained within dedicated areas / appropriate receptacles e.g. building waste shall be separated from litter bins. | Construction Manager | During construction | | | Section 5.5 of SEMP | |
| Where possible, waste avoidance and resource recovery strategies for construction waste have been implemented. | Construction Manager | During construction | | | Section 5.5 of SEMP | |
| All waste that cannot be recycled shall be disposed of appropriately at a licenced landfill site. | Construction Manager | During construction, upon completion | | | Section 5.5 of SEMP | |
| No burning or burying of waste on-site. | Construction Manager | During/ post construction | | | Section 5.5 of SEMP | |
| The site shall be left in a tidy state with no evidence of waste left on-site. | Construction Manager | Post-construction | | | Section 5.5 of SEMP | |

| | | | | | | |
|---|-----------------------|---------------------------------------|--|--|---------------------------|--|
| Noise and Vibration | | | | | | |
| Works conducted during hours stipulated in conditions of consent. | Construction Manager | During construction | | | Section 5.6 of SEMP | |
| Machinery and equipment fitted with appropriate noise control devices. | Construction Manager | During construction | | | Section 5.6 of SEMP | |
| Machinery and equipment maintained and serviced in accordance with the manufacturer's specification. | Construction Manager | During construction | | | Section 5.6 of SEMP | |
| All justifiable noise complaints have been investigated, managed and reported. | Environmental Officer | During construction | | | Sections 5.6 and 7.3 SEMP | |
| Air Quality | | | | | | |
| Areas of exposed soil restricted as much as practicable. | Construction Manager | During construction | | | Section 5.7 of SEMP | |
| Trucks carrying spoil/rubble/waste covered to reduce dust nuisance. | Construction Manager | During construction | | | Section 5.7 of SEMP | |
| All justifiable air quality-related complaints have been investigated, managed and reported. | Environmental Officer | During construction | | | Section 5.7 of SEMP | |
| Fuels, Chemicals and Hazardous Substances | | | | | | |
| Emergency procedure available on-site at all times. | Project Manager | During construction | | | Section 5.8 of SEMP | |
| Spill response material is adequate for the type and quality of hazardous materials used / stored on-site. | Construction Manager | Pre-construction, during construction | | | Section 5.8 of SEMP | |
| All construction plant/machinery shall be properly maintained and inspected to avoid spills/leaks. | Construction Manager | Daily during construction | | | Section 5.8 of SEMP | |
| Appropriate controls implemented when refuelling Project vehicles and machinery. | Construction Manager | During construction | | | Section 5.8 of SEMP | |
| Cultural Heritage | | | | | | |
| In the event of an unexpected discovery of Aboriginal or Historic Cultural Heritage items, works shall cease and NPWS notified. | All personnel | Earthworks; during construction | | | Section 5.9 of SEMP | |
| Traffic and Transport | | | | | | |
| All Project vehicles and machinery to adhere to speed limits and signage and stay within construction corridor. | All personnel | All Project phases | | | Section 5.10 of SEMP | |
| Appropriate traffic controls implemented to direct/exclude pedestrians and mountain bike trail users from the construction corridor i.e. perimeter fencing. | Construction Manager | Earthworks; construction | | | Section 5.10 of SEMP | |

Appendix E Environmental Schedules

This Appendix includes the following environmental schedules:

- Weekly Inspection Report;
- ESC Inspection Report;
- Complaints Form template; and
- Environmental Incident Report Form.

THREDBO ENVIRONMENTAL SERVICES

SEMP WEEKLY INSPECTION REPORT

Sheet ____ of ____

Project: _____ Inspection Date: _____

Inspected by: _____

| Weather: | | | |
|--|-----------|---|----------|
| Morning Clear/Overcast/ Fine/Rain/Snow | | Afternoon Clear/Overcast/Fine/Rain/Snow | |
| Operation | Condition | Plant/Labour | Comments |
| Silt Fence | | | |
| Hay Bale retention ponds | | | |
| Hay Bale sediment protection | | | |
| Stormwater Pit protection | | | |
| Cyclone Fence (including gates) | | | |
| Para-web Fence | | | |
| Site Signage | | | |
| Paint Washout facility | | | |
| Vehicle Wash-down | | | |
| Waste Skips | | | |
| Tree Protection | | | |
| Verbal Discussion with Contractor: | | Verbal discussion with others: | |
| Materials Received / Required: | | Site Instructions Issued: | |
| Inspectors Report / Summary: | | Action required: | |
| Signature: _____ Date: _____ | | | |

THREDBO ENVIRONMENTAL SERVICES

INSPECTION REPORT FOR TEMPORARY EROSION/SEDIMENTATION CONTROLS

Sheet ____ of ____

Project: _____ Inspection Date: _____

Inspected by: _____ Inspect the site weekly or immediately after rain.

| | |
|---|----------------------------|
| 1. Are temporary drains effective in diverting all runoff from exposed areas to silt traps or other sediment structures before leaving site? If No, state location and action required: | Yes/No |
| 2. Have new areas been disturbed which need temporary controls? If Yes, state where: | Yes/No |
| 3. Are there any disturbed areas where work is sufficiently advanced for revegetation to be undertaken? If Yes, state where: | Yes/No |
| 4. Is any dirty runoff water bypassing or overflowing existing silt traps/sediment control structures? Do existing traps need to be increased in capacity? Are any additional traps needed? If Yes, state location, action needed and priority: | Yes/No Yes/No Yes/No |
| 5. Do any silt traps/sediment control structures need maintenance or repair to operate effectively? If Yes, state location, action needed and priority | Yes/No |
| 6. Are any silt/sediment control structures more than 60% full or otherwise in need of cleaning out? If Yes, state location | Yes/No |
| 7. Are actions taken after last inspection adequate and effective? If NO, list outstanding actions: | Yes/No |
| Signature: _____ Date: _____ | |

Environmental Incident Reporting Form

Confidential document after first entry

The purpose of this form is to report any incident that may have resulted in Environmental harm on Kosciuszko Thredbo Pty Ltd premises. Remember to be succinct, stick to the facts and do not make assumptions. Only record information you know to be correct.

The only persons authorised to contact external agencies eg EPA in relation to environmental incidents are the Kosciuszko Thredbo General Manager and Environmental Services Manager or their approved delegates.

Return completed form to the Environmental Services Manager as soon as practicle, on completion of the Environmental incident. It is important to capture photos at the time of the incident as part of this investigation.

| | |
|--------------------------|--------------------------|
| Date of Incident: | Time of incident: |
| Reported by: | Department: |

Location of Incident

| | | |
|---|-----------|-------|
| EXACT location of the incident (include landmarks and features, nearest cross street etc to make it easier to identify later) | | |
| Site: | Building: | Room: |

Description of incident

| |
|--|
| Provide description and extent of incident: |
| |
| |
| |
| |
| |
| Have relevant photos been taken and attached? Yes <input type="checkbox"/> No <input type="checkbox"/> |
| If 'No', provide sketch and attach to the rear of this document. |
| What was the estimated duration of the incident? |

Type of incident

| | | |
|---|--|---|
| <input type="checkbox"/> Spill (including fuel,oil,waste material or other polluting substance) | <input type="checkbox"/> Erosion and sedimentation incident | <input type="checkbox"/> Contaminated water discharge |
| <input type="checkbox"/> Noise emission/complaint | <input type="checkbox"/> Unauthorised/accidental damage to heritage item | <input type="checkbox"/> Unauthorised/accidental vegetation removal or harm |
| <input type="checkbox"/> Air Emission | <input type="checkbox"/> Wildlife habitat/nesting area disturbed | <input type="checkbox"/> Other (specify) |

Environmental Incident Reporting Form

Level of incident

| Level | Example |
|--------------------------------|---|
| <input type="checkbox"/> Minor | eg. No material has escaped the site or caused material harm to the environment – it is easy to clean up without additional assistance. |
| <input type="checkbox"/> Major | eg. Material has escaped the site causing pollution downhill/downstream areas, which will require clean up involving other agencies and/or additional resources not available to local site management. Damage has occurred or is likely to occur to the environment. |

Hazardous Material Spilt

| | |
|--|---|
| <input type="checkbox"/> Petroleum based products/ Hydrocarbons | <input type="checkbox"/> Chemicals domestic or industrial grade |
| <input type="checkbox"/> Biological waste / Clinical and related waste | <input type="checkbox"/> PCB insulating liquids |
| <input type="checkbox"/> CFC containing equipment | <input type="checkbox"/> Paints or paint products |
| <input type="checkbox"/> Radioactive waste | <input type="checkbox"/> Other (specify) |
| Detail type/ingredient spilt: (UN, MSDS details) | |
| Detail concentration of material spilt: | |
| Detail quantity of material spilt: | |

Type of Spill

| | |
|--|--|
| <input type="checkbox"/> Spilt onto ground | <input type="checkbox"/> Spilt into stormwater drain |
| <input type="checkbox"/> Spilt into waterway | <input type="checkbox"/> Poured down sink |
| <input type="checkbox"/> Poured down sewer | <input type="checkbox"/> Released into atmosphere |
| <input type="checkbox"/> Caused odour | <input type="checkbox"/> Caused fire/explosion |
| <input type="checkbox"/> Caused infectious contamination | <input type="checkbox"/> Other (specify) |

Immediate Actions

| |
|---|
| Was spill contained? Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Detail immediate actions/controls measures taken to rectify or contain the incident |
| |
| |
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| |

Environmental Incident Reporting Form

Corrective Actions

Detail corrective clean up action taken

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Disposal

Detail disposal method/plans and location

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Recommended follow up and preventative actions

Detail recommendations

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Persons present at Incident

Were there any witnesses to the accident? Yes ☐ No ☐ If 'Yes', please provide names

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Spill Kit stock used – for restock purposes

Name Spill Kit(s) used: e.g. *Waste Transfer Station 80Litre Spill Kit*

.....

.....

Environmental Incident Reporting Form

| Spill Kit Product | Quantity used |
|---|---------------|
| Enviropeat Oil Absorbent Material – 25L bag | |
| 1.2m Absorbent sock | |
| 3m Absorbent sock | |
| Absorbent pads | |
| Chemical resistant disposable gloves | |
| Disposable face masks | |
| Roll of plastic bin bags | |
| Cable ties | |

Declaration

The information and answers given above are true in every detail and no information has been withheld.

| | |
|-------------------------------------|-------|
| Departmental Supervisors Name: | |
| Departmental Supervisors signature: | Date: |

| | |
|----------------------------------|-------|
| Departmental Managers Name: | |
| Departmental Managers signature: | Date: |

Spill Kit Replenished

| | |
|------------------------------|-------|
| Staff Members Name and Role: | |
| Staff Members signature: | Date: |

Created By: Paul Corcoran on 24 Mar 2009
Review Date: 16 Jan 2019