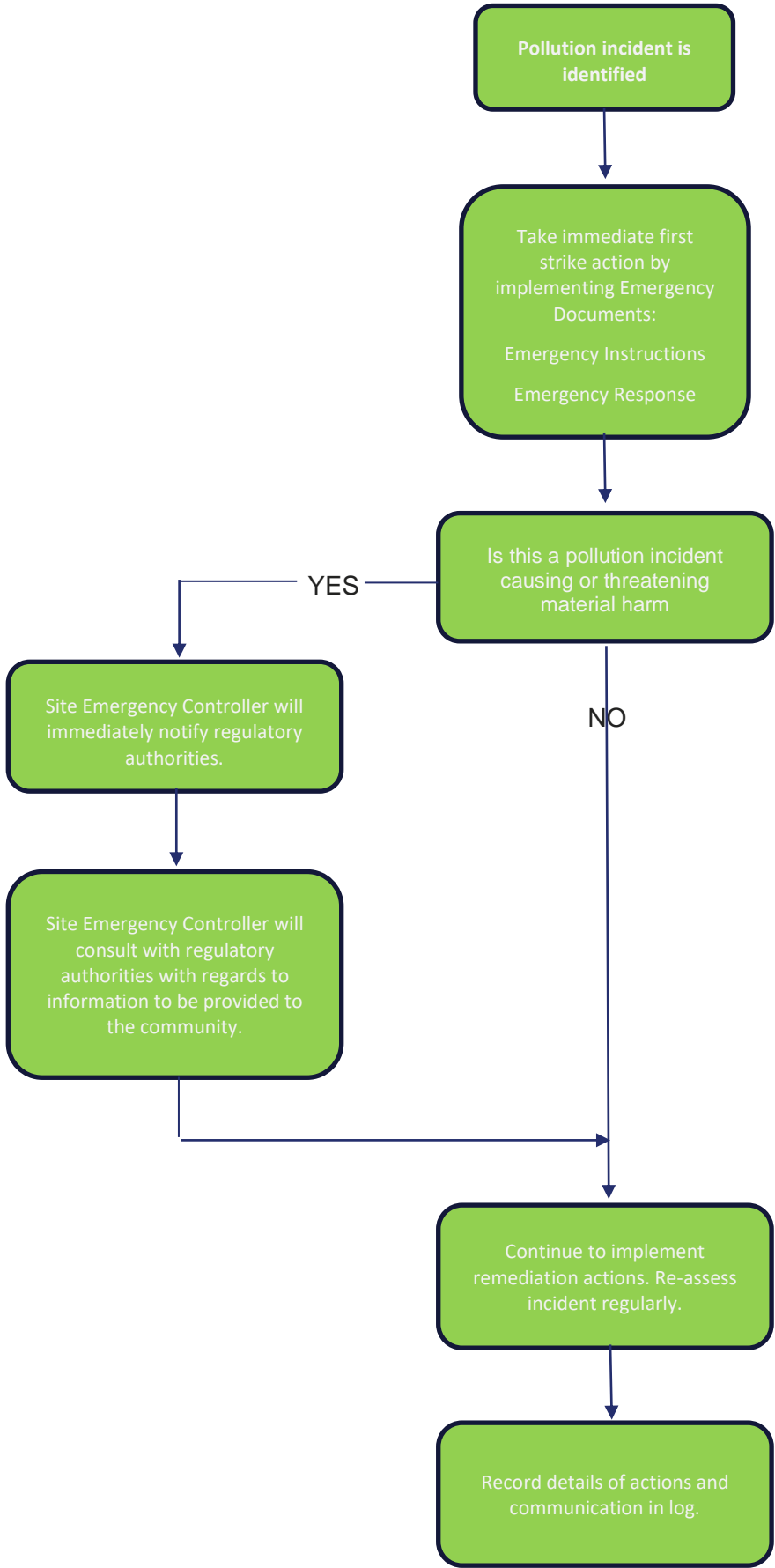


PIRMP Hawkesbury Eco Asphalt – Premises and Asphalt Plant

Version History

Version	Date	Author	Reason
1.0	21/08/2021	Chris Engelbrecht	Creation for Hawkesbury Eco Asphalt Pty Ltd

Figure 1 - PIRMP Implementation Chart





HAWKESBURY ECO ASPHALT

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

LICENCE NUMBER: 21173

Approved by: Dianne Mallia
Position/Title: General manager

Signature:
Date: 22 August 2021

PURPOSE:

Hawkesbury Eco Asphalt holds an Environment Protection Licence with the NSW Environment Protection Authority (EPA) for 60 Argyle Street, South Windsor, NSW 2756. As per the *Protection of the Environment Operations Act 1997* (the POEO Act), the holder of an Environment Protection Licence must prepare, keep, test and implement a pollution incident response management plan (PIRMP) that complies with Part 5.7A of the POEO Act in relation to the activity to which the licence relates.

If a pollution incident occurs during an activity so that material harm to the environment (within the meaning of section 147 of the POEO Act) is caused or threatened, the person carrying out the activity must **immediately** implement this plan in relation to the activity required by Part 5.7A of the POEO Act.

A copy of this plan must be kept at the licensed premises, or where the activity takes place in the case of mobile plant licences and be made available on request by an authorised EPA officer and to any person who is responsible for implementing this plan.

Parts of the plan must also be available either on a publicly accessible website, or if there is no such website, by providing a copy of the plan to any person who makes a written request. The sections of the plan that are required to be publicly available are set out in clause 98D of the *Protection of the Environment Operations (General) Regulation 2009*.

NOTE: This plan must be developed in accordance with the *Protection of the Environment Operations Act 1997* and the *Protection of the Environment Operations (General) Regulation 2009*.

Licensees should also refer to the EPA's *Guideline: Pollution incident response management plans*.



HAWKESBURY ECO ASPHALT

Environment Protection Licence (EPL) Details

Name of licensee: (including ABN)	Hawkesbury Eco Asphalt Pty Ltd 80 624 427 505
EPL number:	EPL 21173
Premises name and address:	60 Argyle Street, South Windsor, NSW, 2756
Company or business contact details	Name: Chris Engelbrecht Position or title: Project Manager Business hours contact number/s: 02 4577 3374 After hours contact number/s: 0407 549 397 Email: chris@heasphalt.com.au
Website address:	https://hawkesburyecoasphalt.com.au/
Scheduled activity/activities on EPL:	Resource Recovery Waste Storage
Fee-based activity/activities on EPL:	Recovery of General Waste Waste Storage

Pollution incident – person/s responsible

Contact details must include the names, position titles and 24-hour contact details. Details are to include alternative person/s, should the primary contact be unavailable.

PIRMP activation	Name of person responsible: Jamie Vella Position or title: Site Supervisor Business hours contact number/s: 02 4577 3374 After hours contact number/s: 0407 421 355 Email: jamie@jeasphalt.com.au
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HAWKESBURY ECO ASPHALT

Pollution incident – person/s responsible, continued

Notifying relevant authorities

Notification should be made by a person with an appropriate level of authority within the company.

Name of person responsible: Jamie Vella

Position or title: Site Supervisor

Business hours contact number/s: 02 4577 3374

After hours contact number/s: 0407 421 355

Email: jamie@jeasphalt.com.au

Managing response to pollution incident

Name of person responsible: Chris Engelbrecht

Position or title: Project Manager

Business hours contact number/s: 02 4577 3374

After hours contact number/s: 0407 549 397

Email: chris@heasphalt.com.au



HAWKESBURY ECO ASPHALT

Notification of relevant authorities

Identify any persons or authorities required to be notified as per Part 5.7A of the POEO Act in the case of a pollution incident that causes or threatens to cause material harm to the environment.

Relevant authorities include:

1. Fire & Rescue NSW and/or Rural Fire Service as applicable
2. EPA
3. NSW Health (Penrith) (02) 4734 2022 A/H (02) 4734 2000 ask for Public Health Officer
4. SafeWork NSW – 131 050
5. Hawkesbury City Council – Environmental Department (02) 4560 4444

Note: The local council and public health unit will vary depending on the location of the pollution incident. For mobile plant licences the PIRMP will need to include the person or people who are responsible for identifying the local authority and nearest public health unit.

Hawkesbury City Council – Environmental Department	Contact number/s	(02) 4560 4444
Fire & Rescue NSW / Rural Fire Service	Contact number/s:	1800 679 737
EPA	Contact number/s:	131 555
NSW Health Penrith	Relevant Area Health Service: Contact number/s:	(02) 4734 2022 (02) 4734 2000 (A/H)
Sydney Water	Emergency assistance	13 20 90 all hours
SafeWork NSW	Contact number/s	131050



HAWKESBURY ECO ASPHALT

Notification of neighbours and the local community

Decisions to notify neighbours and the local community will be made in consultation with regulatory authorities based on an initial risk assessment (for example, considering the type of pollutant, concentration of emission, prevailing wind, and level of the emission).

The Hawkesbury Eco Asphalt Communications Coordinator will be responsible for co-ordinating the notification and update of information to neighbours, the local community, and regulatory authorities.

Notification of the Community and Media is to be undertaken in accordance with the Hawkesbury Eco Asphalt Emergency Response Plan.

Reference documents

The following reference documents are also available for additional information or detail:

- Emergency Response Plan [TQMS12-HSE-L001](#);
- Emergency Instructions [TQMS12-HSE-L001-I001](#)
- Environmental Management Plan [S4.55 Benbow](#)
- Contractor HSSE Management Procedure [HSSEMS10-HSSE-EN-P001](#);
- Technical publications (e.g. MSDS's & ChemAlert, HAZCHEM codes);
- Protection of the Environment Operations Act 1997;
- Protection of the Environment Operations (General) Regulation 2009;
- NSW Office of Heritage (EPA) Environmental Guidelines: Preparation of pollution incident response management plans.



HAWKESBURY ECO ASPHALT

Item	Hazard	Description	Likelihood of causing or threatening material environmental harm	Consequence	Management Measure	Circumstances that may increase likelihood of causing or threatening material environmental harm
Gas Burner Operation						
1	Uncontrolled emission from stacks	Discharge of NOx above the EPL permitted limit	Low	Localised & regional air pollution Non-compliance with EPL.	Air emissions are constantly monitored and alarmed to notify operators of emissions outside of EPL limits. Alarms are set at a lower limit to the EPL limit to allow for rectification of the emissions.	Prolonged Continuous Emissions Monitoring failure with unit still in service and corrective action not taken
Natural Gas Handling						
2	Discharge of Natural Gas to atmosphere due to leak in pipeline	The Natural Gas pipeline supplying fuel to site may rupture or leak at a flange, causing uncontrolled release of Natural Gas.	Low	Localised & regional air pollution Potential for ignition of gas causing fire in vicinity	Weekly pipeline inspection performed to identify defects. Jemena control room can remotely shutoff gas supply.	Digging or excavation works occurring on or near pipeline. Cathodic protection of pipeline ineffective, or incorrectly applied.
Hawkesbury Eco Asphalt Land Management						
6	Bushfire within HEA Lands boundary	Bushfire within HEA Lands boundary.	Low	Localised air pollution	Firefighting equipment kept on-site for RFS use RFS access to lands	Adverse weather conditions. Lack of routine maintenance in clearing growth on boundaries.
7	Erosion from site entering waterways	Erosion of soils within the site leading to discharge of sediment-laden water into settling ponds and/or Final Holding Pond	Low	Discharge of sediment-laden water. Non-compliance with EPL	Maintenance of road, stockpile area and boundaries Site 80%sealed Stormceptor sediment trap installed	Major storms that may cause stockpile erosion.



HAWKESBURY ECO ASPHALT

	Water Management					
17	Discharge of water due to ruptured pipe	The main water pipeline may rupture or leak at a flange, causing uncontrolled release of water.	Low	Water wastage and possible erosion Non-compliance with EPL.	Site is sealed and graded to capture water at a central point. Emergency shut off valve.	Delayed action to shut off the valve.
	Bitumen Spill Handling		Natural Gas Handling		Natural Gas Handling	
17	Discharge of water due to ruptured pipe	The main water pipeline may rupture or leak at a flange, causing uncontrolled release of water.	Low	Water wastage and possible erosion Non-compliance with EPL.	Site is sealed and graded to capture water at a central point. Emergency shut off valve.	Delayed action to shut off the valve.



HAWKESBURY ECO ASPHALT

Pre-emptive actions to be taken

Pre-emptive actions to minimise risks

The following general pre-emptive actions are undertaken by Hawkesbury Eco Asphalt Pty Ltd in order to minimise risks to human health and/or the environment arising from the activities undertaken at the Asphalt Plant and Resource recovery centre.

- Provision, training and use of spill containment kits.
- Installation of monitoring equipment on discharge points (air and water).
- Installation of alarms on key infrastructure.
- Bunding of bulk chemical, fuel, oil, and lubricant storage containers.
- Isolation valves on banded storage areas.
- Labelling of drains according to their discharge point (stormwater, oily water separator etc)
- Regular and routine condition assessments of key infrastructure.
- Regular and routine environmental inspections.
- External audits assessing environmental compliance of the sites with Conditions of Approvals, Environmental Management Plans and general environmental performance.
- Training of staff in the safe handling and use of chemicals, fuels, oils, and lubricants.



HAWKESBURY ECO ASPHALT

Inventory of pollutants

Location and Description	Max. quantity	Contents	Comments
Tank 1 – Asphalt Plant	50,000kg	AR450 Bitumen	Bunded
Tank 2 – Asphalt Plant	50,000kg	AR450 Bitumen	Bunded
Tank 3 – Asphalt Plant	50,000kg	AR450 Bitumen	Bunded
Reclaimed Asphalt	3000 tonnes		Stockpiled open area
Bay # 1	240 tonnes	20mm Virgin aggregate	three sided bays with roof
Bay # 2	240 tonnes	14mm Virgin aggregate	three sided bays with roof
Bay # 3	240 tonnes	10mm Virgin aggregate	three sided bays with roof
Bay # 4	240 tonnes	7mm Virgin aggregate	three sided bays with roof
Bay # 5	240 tonnes	5mm Virgin aggregate	three sided bays with roof
Bay # 6	240 tonnes	Crusher Dust aggregate	three sided bays with roof
Bay # 7	240 tonnes	Sand aggregate	three sided bays with roof
Bay # 8	240 tonnes	Fine RAP	three sided bays with roof



HAWKESBURY ECO ASPHALT

Safety and pollution control equipment

Locations	
Area	Equipment
Workshop under control Room I	General Purpose Spill Kit 1
Laboratory	General Purpose Spill Kit 2
Bitumen Tank Farm	General Purpose Spill Kit 3
Opposite Office	Fire Hydrant 1
Spray Stand	Fire Hydrant 2
Next to RAP Stockpile	Fire Hydrant 3
Parking Area for Trucks	Fire Hydrant 4
South End Material Bunkers	Fire Hydrant 5
North End Material Bunkers	Fire Hydrant 6
Office and each level on plant	CO2 Fire Extinguishers

Communicating with neighbours and the local community

In the event of an incident, subject to advice from the regulatory authorities, the following methods of communication are able to be used to communicate with the local community.

Communication modes

The following communication modes may be implemented:

- Updating web page
- Newsletter drops
- Doorknocking
- Advertisements
- Signage.

Advice provided to the community will depend on the type and extent of the pollution incident and guidance from the regulatory authorities. The following examples are provided as a guide:

- Uncontrolled emission of air pollutant – Community advised through applicable media outlets to close windows and doors, turn off air conditioning equipment and stay indoors.
- Uncontrolled release of contaminated water into a waterway – Advise local community to avoid fishing in affected waterways, to restrain pets from entering affected waterways or utilising the waterway for recreation (e.g., swimming, skiing) until the waterway is deemed safe to use following sampling and monitoring.



HAWKESBURY ECO ASPHALT

Minimising harm to persons on the premises

Management measures to minimised harm to site personnel

- The safety of personnel involved in pollution incident response must be given the highest priority.
- Only properly trained personnel equipped with appropriate safety gear and protective clothing may be permitted to take part in operations where the risk of injury is evident.
- Any response action is to consider the requirements for support systems such as back-up personnel and equipment, first aid, showers, hoses etc.
- Hawkesbury Eco Asphalt Pty Ltd also has safety mechanisms in place as part of Hawkesbury Eco Asphalt Pty Ltd Safety Management System.
- All site personnel and contractors are inducted when first attending the site and advised of the evacuation procedures, audible warning alarms and muster locations.
- In the event of a pollution incident that has the potential to impact all site staff, an Audible Announcement with an alarm is used to alert site personnel.
- The Asphalt Plant Supervisor will then make an announcement on what action is required.
- In the situation where site evacuation is required, a male voice will direct people to evacuate the site.
- In this circumstance, personnel are directed to the appropriate muster point.



HAWKESBURY ECO ASPHALT

Maps













HAWKESBURY ECO ASPHALT

Site Layout and Emergency Evacuation Map

80 Argyle St. South Windsor NSW 2756
www.heasphalt.com.au
Phone: (02) 4577 2878
Fax: (02) 9627 1498
ABN: 80 624 427 505



- | | |
|--|--|
|  Asphalt Plant |  Control Room |
|  Office Building |  Eye wash Stations |
|  First Aid Kits |  Smoking Area |
|  Emergency Assembly areas |  Car and Truck Parking Area |
|  Fire Hydrants |  Spill Kits |





HAWKESBURY ECO ASPHALT

Actions to be taken during or immediately after a pollution incident

First strike action

It is imperative that first-strike action be taken quickly to contain any spill. This first strike action, determined by the Plant Supervisor and implemented by the available staff, is to be aimed at achieving isolation and containment of the spill to prevent any further leakage or spread to the surrounding environment. If the spill is minor, clean-up procedures will be implemented as required.

If the spill occurs in a day shift period, the personnel and resources of all employees' will also be available to the Plant Supervisor.

Incident response procedures

The following are excerpts from the Emergency Instructions related to spills, which is to be used in conjunction with the Emergency Response Plan.

CHEMICAL SPILL / HAZARDOUS MATERIAL SPILL

FIRST PERSON ON THE SCENE

1. NOTIFY the Control Room – provide clear description of chemical and size of spill
2. OBTAIN MSDS information for the relevant product by contacting Control Room
3. WEAR correct PPE
4. ISOLATE equipment to control spill if safe to do so
5. BARRICADE the area, if possible, ensure no persons are exposed to the hazard
6. REMOVE yourself (and other personnel if possible) from the area, upwind / uphill of the spill
7. REMAIN upwind / uphill of the spill and await instructions from the Site Emergency Controller

SITE EMERGENCY CONTROLLER

- ACCOUNT for all personnel
- OBTAIN and review MSDS
- ASSESS source, condition, and quantity of chemical spill:
 - 1st priority: prevent further spillage.
 - 2nd priority: prevent fire, explosion, and fumes.
 - 3rd priority: bund to prevent spreading; and
 - 4th priority: clean up affected area.
- BRIEF ERT on immediate actions required
- DEPLOY chemical spillage equipment from Workshop. Contact Emergency Services if required
- FOR STATUS 2 incidents, call EMT contact numbers NOTIFY local Fire Brigade or Police for dangerous goods incident
- STATUS 2 Emergencies – Record events
- MONITOR spillage, (for dispersion and direction) and BUND if possible
- ENSURE gas testing of an incident area is undertaken to detect toxic gases or low oxygen levels
RECORD in Objective

GAS LEAK OR EXPLOSION

FIRST PERSON ON THE SCENE

- DO NOT use mobile phone in the event of a gas leak
- NOTIFY Control Room of the location and incident details
- CLEAR affected site of personnel
- RAISE Fire Alarm using the Loud Hailer Alarm
- REMOVE any possible ignition source (i.e., operating equipment)
- ISOLATE or bypass the gas leak if safe to do so (remotely if possible)
- REPORT status of incident to control room (details such as wind direction etc.)
- WITHDRAW to a safe location and await instructions from Site Emergency Controller
- REPORT status of personnel in the area to Site Emergency Controller

SITE EMERGENCY CONTROLLER

- TREAT ANY UNCONTROLLED GAS LEAK OR EXPLOSION AS A STATUS 2 EMERGENCY
- ISOLATE FUEL GAS
- EVALUATE need for Facility evacuation and execute if necessary
- ENSURE emergency Fire Alarm is activated which sends automatic signal to Fire Brigade
- REQUEST Emergency Services to attend the HEA site. Give address as:

Hawkesbury Eco Asphalt

60 Argyle Street, South Windsor, NSW, 2756

- ACCOUNT for all personnel
- BRIEF Emergency Response Team and delegate tasks
- DISPATCH an ERT member with radio to meet and direct Emergency Services
- ENSURE gas testing of an incident area is undertaken after a fire to detect toxic gases or low oxygen
- CALL Emergency Management Team contact numbers
- STATUS 2 Emergencies – Record events
- SECURE the scene of the accident for investigation team

Pollution incident response

The following section details responsibilities of designated Hawkesbury Eco Asphalt Pty Ltd staff during a pollution incident. It also details management measures for minimising the risk of harm to site personnel during a pollution incident and the actions to be taken during and immediately after a pollution incident.

Responsibilities during a pollution incident

The Asset Leader is the nominated Site Emergency Controller, or his delegate who can be the Operations Leader or Power Plant Supervisor and is required to assess and initiate the notification process in accordance with the requirements of the POEO Act.

Refer to Section 3.1 of this PIRMP for the notification process

Hawkesbury Eco Asphalt Pty Ltd staff that discover an actual or potential pollution incident are responsible for immediately notifying the Control Room of the incident and providing the following information:

- a) the time, date, nature, duration, and location of the incident.
- b) the location of the place where pollution is occurring or is likely to occur.
- c) the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known.
- d) the circumstances in which the incident occurred (including the cause of the incident, if known).
- e) the action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known.
- f) other information prescribed by the regulations.

Hawkesbury Eco Asphalt Pty Ltd emergency response protocols nominate the Asset Leader as the Site Emergency Controller (SEC), who may appoint a Communications Coordinator. Further details on the responsibilities of the Site Emergency Controller and Communications Coordinator are available in The Emergency Response Plan.

The will Asset Leader will assume the Site Emergency Controller role until other arrangements are in place. The Site Emergency Controller is to.

1. Assess the Situation
2. Activate the Response
3. Direct the Response

Pollution incident clean-up

Procedures for the clean-up of pollution incidents will largely depend on the type and extent of the pollution incident.

Clean-up procedures will consider the following:

- Type of pollutant.
- Extent/Area of pollution.
- Medium in which pollution has occurred (land, air, water).
- Requirements for specialist advice in relation to the removal and remediation of the pollution.
- Potential additional environmental impacts by the proposed clean-up processes; and
- Costs to remove the polluted material to a waste facility licensed to accept the waste.

The Asphalt Plant Supervisor is responsible for determining the method of clean-up, in consultation with the Safety and Environment Specialist, Asset Leader and consultants (where required). Funding of clean-up procedures will be determined by the Asset Leader.



HAWKESBURY ECO ASPHALT

Coordinating with persons

Immediate Notifications of Incident to Relevant Authorities

Hawkesbury Eco Asphalt Pty Ltd is required to immediately notify the following regulatory authorities in accordance with the POEO Act s148 where a pollution incident has occurred **that is causing or threatening material harm to the environment.**

The Plant Supervisor will immediately contact the following Authorities:

Regulatory Authorities Contact Details

Contact Authority	Contact Person	Contact Details
Environmental Protection Authority	Environmental Line	131 555
NSW Health (local Public Health Unit)	Public Health Officer on call	02 4222 5000
Work Cover NSW		13 10 50
Local Council – Wollongong City Council		02 4227 7111
Fire and Rescue NSW		000

Identify the person/s through whom all communications are to be made:

Name of person responsible: Jamie Vella

Position or title: Site Supervisor

Business hours contact number/s: 02 4577 3374

After hours contact number/s: 0407 421 355

Email: jamie@jeasphalt.com.au

Staff training

Environmental awareness training is delivered to all staff regularly during HSE discussions, and within three months of employment at operational sites. Training records are maintained by the Business Operations Coordinator.

The Environmental Awareness Training Package is designed to provide our employees with an awareness of the importance of:

- their roles and responsibilities in achieving conformance with our Environment Policy and procedures.
- the requirements of our EMS.
- our significant environmental aspects and impacts (actual or potential) of their work activities.
- the environmental benefits of improved personal performance.
- the potential consequences of departure from specified operating procedures.
- performing duties in an efficient and competent fashion.
- reporting environmental incidents and “near-miss” events.
- active participation in Hawkesbury Eco Asphalt Pty Ltd environmental management process; and
- knowledge of regulatory requirements.

The Safety and Environment Specialist is responsible for ensuring that PIRMP environmental emergency response exercises are conducted at least yearly at each power station site as required by clause 98E in the POEO Regulation. Where possible these are incorporated into site general emergency response exercises.

Full documentation is to be maintained of the exercise, with lessons learnt and steps taken to improve future response.

Testing and updating of the PIRMP

Testing of the PIRMP

Hawkesbury Eco Asphalt Pty Ltd will test the PIRMP on a routine basis at least once every 12 months and within one month of a notifiable incident.

Testing of the PIRMP will generally be run in conjunction with testing of the overall Emergency Response Plan. The program for testing is provided below:

- Testing of the PIRMP will either be in the form of a simulation, or a practical exercise organised in conjunction with the environmental emergency response exercises.
- PIRMP test exercises will be scheduled and recorded.
- Hawkesbury Eco Asphalt Pty Ltd will maintain records in Objective pertaining to the exercise, lessons learnt, steps taken to improve responses.
- Documented records of the PIRMP tests will be kept on the Hawkesbury Eco Asphalt Pty Ltd Intranet and reported at the Management Review.
- Due to a high risk ranking the PIRMP will be reviewed and updated yearly by following Hawkesbury Eco Asphalt Pty Ltd standard operation procedure for Document creation, modification, and approval.



HAWKESBURY ECO ASPHALT

Example: PIRMP testing details

Date tested	Tested by	Details of test	Finding of test, including issues identified	Next scheduled testing date (every 12 months)
24.02.22	Karen Baker, Environment Manager	Desktop simulation – chemical spill	Contact details, map, and pollutant inventory out of date	23.02.19

PIRMP update details

Date update occurred	Reason for update (e.g. address issues identified in testing, contact details/personnel have changed)	Details of updates (nature of changes to PIRMP)	Date the updated version uploaded to website (if applicable)	Date of completion
e.g. 24.03.22	Outdated items identified in annual testing	Contact details, map and pollutant inventory updated	26.03.22	26.03.22
