

# McLennan Earthmoving Pty Limited

ABN: 96 055 186 797

## **Pollution Incident Response Management Plan for Duncans Quarry 3281 Gwydir Highway, Jackadgery**

Prepared and Approved by:

***McLennan Earthmoving Pty Limited  
Mine Operator***



***Philip McLennan  
Managing Director***

***Date: 15 December 2015***

## **INTRODUCTION**

This Pollution Incident Response Management Plan (PIRMP) has been prepared in accordance with requirements set out in Part 5.7A of the Protection of the Environment Operation Act 1997 (POEO Act).

This plan is to be kept on file at the quarry and will form an adjunct to the quarries Mine Safety Management Plan (MSMP); its contents should be familiar to each employee. The plan is to be reviewed and amended as required by changes in operations or failure of the plan in an emergency. Reference MSMP Part 7 “Environment and Health Surveillance” and Part 9 “Emergency Planning”.

The current induction process for workers and visitors covers emergency procedures including pollution incidents.

A training program on hazardous waste and polluting materials management has been incorporated into the quarries emergencies training programme and updated as necessary.

The Mine Operator will be responsible for the worker training and the ongoing maintenance of the PIRMP.

Copies of this PIRMP have been forwarded to the appropriate authorities.

## **DETAILS OF QUARRY AND SITE OPERATIONS**

The quarry known as “Duncans Quarry” is located at 3281 Gwydir Highway, Jackadgery, 32.8km west of Grafton.

Work includes the winning, screening and crushing of material for the purpose of producing road based gravels and sand.

The plant on site consists of:

- Dozers
- Excavators
- Articulated dump trucks
- Track mobile crushers
- Wheel loaders
- Tip trucks

The number of workers at the quarry normally consists of 3 – 5 people.

The site comprises of the following areas:

- Quarry extraction area
- Stockpile loading and unloading areas
- Visitor parking, assembly and office area
- Roads, silt dams, sediment dams and water dam areas
- Machinery, crusher and screening areas

The site plan, Attachment (i) shows the location of drainage, dams, storage areas, safety equipment and other site details.

## **EMERGENCY RESPONSE AGENCIES**

In the advent of a pollution incident the Mine Operator or alternate should contact the following emergency authorities immediately:

- Environmental Protection Authority (EPA)  
PO Box A290  
Sydney South NSW 1232  
Phone: 131 555
- Fire and Rescue NSW (Hazmat)  
PO Box A249  
Sydney South NSW 1232  
Phone: 02 9265 2999
- Clarence Valley Council (CVC)  
Locked Bag 23  
Grafton NSW 2460  
Phone: 02 6643 0200
- NSW Ministry of Health  
Locked Mail Bag 961  
North Sydney NSW 2059  
Phone: 02 9391 9000
- WorkCover NSW  
Locked Bag 2906  
Lisarow NSW 2252  
Phone: 13 10 50

Depending on the severity of the incident and/or injuries to workers the Department of Primary Industry (DPI) needs to be notified on the appropriate "Accident/Incident Report" form within time frame. Reference MSMP Part 11 "Incident and Accident Reporting and Investigation".

Other emergency agencies that may need to be contacted depending on the type and severity of the incident are:

- Police
- Rural Fire Service
- Hospital
- Ambulance
- State Emergency Service

## **POLLUTION INCIDENCE RESPONSE**

If a spill or leak of polluting material occurs, the Emergency Response Actions posted at the office are to be followed. They are given here in more detail. The Mine Operator and alternates should become familiar with these steps.

1. Assess the situation; follow all health and safety precautions warranted by the material and circumstances.

2. If there is reason to believe that the release of polluting material threatens the health or safety of employees or of surrounding residents or properties evacuate the facility, notify the appropriate local emergency response agencies listed in this plan and follow their instructions.
3. If there is reason to believe that the polluting material has or may reach riparian areas via drains, sewers, surface runoff or soils at the facility, immediately contact the EPA on the telephone number listed above. Follow their instructions for containing or cleaning up the material.
4. If emergency response agencies, including EPA or health departments, are contacted for assistance, then the Mine Operator must also notify the DPI.
5. Take steps to minimize the release of polluting material to the environment. This can include but is in no way limited to the following measures:
  - a) DO NOT FLUSH WITH WATER UNLESS DIRECTED TO DO SO.
  - b) Shut off valves, plug leaks, pump tanks etc. to stop the release.
  - c) Dyke or absorb the material using sand or other material.
  - d) Plug drainage inlets/outlets.
  - e) Redirect flows to a holding area.
  - f) Excavate contaminated soils.
6. Clean up all contaminated material. Clean out catch basins, tanks or basins contaminated by the material. Excavate contaminated soils or absorbent material. Follow instructions given by EPA staff for final clean up action.
7. Properly store, label and document the wastes for disposal.
8. Notify CVC that a spill or leak has occurred and to make arrangements for disposal of waste material.
9. Clean and service all emergency equipment. Replenish supplies of absorbent material, etc. recommend and perform maintenance on containment systems.
10. Enter into the quarries hazard management matrix, a full account of the incident including date, time, volume, material and response taken.
11. If the EPA has not been notified, do so within 10 days of the incident with the following information:
  - a) Facility name and location.
  - b) Description and volume of material involved.
  - c) Time and date of spill or leak.
  - d) Assessment of damage and response taken.
  - e) Remedial action planned or assistance needed.
12. Review PIRMP for changes needed to make it more effective and realistic.

## **EMERGENCY EQUIPMENT**

The quarry is maintained and operated to minimize the possibility of a fire, explosion or release of polluting materials. The following communications, fire protection, spill control and clean up equipment are available on site in case of an emergency.

The following equipment is inspected and maintained as necessary to assure its proper operation if a pollution incident should occur.

Description Testing/Maintenance:

- Two Way Radio Maintenance as required
- Portable Fire Extinguishers inspect annually or as needed
- First aid kits audited quarterly and inspected annually
- Water hose
- Absorbent Material Replenish supply as needed
- Hand Shovels
- Pumping equipment inspect monthly as needed

### **POLLUTING MATERIALS STORED OR USED AT THE QUARRY**

Listed below are potential incidents that could occur at the quarry and that have the potential of causing environmental damage. Following is a list of the type of material, how it is stored and pollution incident prevention measures.

<b>Type of Incident</b>	<b>Material</b>	<b>Quantity and Storage Location</b>	<b>Preventative Measures</b>
Large fuel spill	+ Diesel  + Diesel & Regular unleaded petrol	+Fuel tanker with capacity of 2,000 litre + Quarry vehicles and plant.	+ Fuel tank double banded.  In the advent of spills cover the area with suitable absorbent material, available in the storage for use. Spill kits available on site.
Chemical Spills	+ Bitumen pre-coat  + Assortment of oils and lubricants	+ An amount of 30,000 litres is stored in a covered area.  + Small quantities stored in quarry workshop.	+ Stored in a covered concrete and block banded area with a spill capacity of twice the capacity of the holding tank. In the advent of a spill cover the area with suitable absorbent material, available in the storage for use. Spill kits available on site.
Explosion from truck roll over	+ Diesel + Petrol	+ Amounts in plant fuel tanks.	+ Fire extinguishers on all plant items. Absorbent material available in the advent of a spill.
Dam Failure	+ Sediment	+ Two (2) dams with storage capacities of four (4) megalitre & one (1) megalitre.	+ To reduce the likelihood of a dam failure a regime of regular inspections should be implemented. + In the advent of failure the impacts will be person safety, water quality; and the physical integrity of the watercourse. Pollutants should be remove form the watercourse and debris

			(excluding natural vegetation) remove and the watercourse restored.
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**NOTE:**

- In all cases if spillage is on water or near water, prevent the spread of the produce by the use of a suitable barrier.
- Complete information regarding the physical properties, chemical names and required safety precautions can be found in the Safety Data Sheets (SDS) located at the quarry.

Attachment (i) - Site Plan

Duncans Quarry, 3281 Gwydir Highway, Jackadgery

←Glen Innes

Grafton→



Legend			
1	Entry and exit points	9	Stockpile area 4
2	Emergency assembly area	10	Stockpile area 5
3	Site office and visitor parking area	11	Water Tank
3	First Aid Kit location	12	Dam
3	Fire fighting equipment	13	Pond
3	Fuel and chemical storage area	14	Siltation Pond
4	Argillite area	15	Silt recovery collection bays
5	Granite area	16	Stockpiling bay
6	Stockpile area 1	17	Sealing Aggregates stockpile area
7	Stockpile area 2		
8	Stockpile area 3		