Roydon Quarry
Spill Management Plan

220 Jones Road

Templeton

Revision	Description	Prepared By	Checked By	Reviewed By	Approved by
1	Draft for comment	SE	RS	CLG	SE
2	For Council Certification	SE	RS	SE	SE
3	Certified plan 15/3/2022	SE	RS	KKW	CRC

Initials	Name	Company
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CLG	Community Liaison Group	
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KKW	Kimberley Kovacs-Wilks	Ecan (CRC)
CRC	Canterbury Regional Council	

Next review due – Nov 2022 (following quarry operations starting)

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1.0 INTRODUCTION

1.1 Background

Fulton Hogan Limited (Fulton Hogan) is a leading infrastructure, construction, roadworks and aggregate supplier in New Zealand. Fulton Hogan currently has three fixed aggregate quarries located in the greater Christchurch area and began its operations in the Canterbury region over 50 years ago.

The Roydon Quarry site, located in Templeton, is proposed to be another long-term operation. In association with this proposed quarry, Fulton Hogan has sought joint resource consents to Environment Canterbury and Selwyn District Council to authorise the quarry and associated activities.

The site is located within a block of land bound by Curraghs Road, Dawsons Road, Maddisons Road, and Jones Road, and comprises an area of approximately 170 hectares. The site is located on the edge of the Selwyn District, with the opposite side of Dawsons Road being the western border of Christchurch City. The street addresses of the site are 107 Dawsons Road and 220 Jones Road.

1.2 Document Content and Purpose

This SMP outlines; site responsibility, training, spill controls, spill response and spill reporting.

During the daily operations at Roydon Quarry, there is some risk that a spill or leak could occur from the use of fuels and oils in the quarry's operation. It is everybody's responsibility to ensure that their actions resulting from day to day activities do not result in damage to the environment.

Ensuring all spill risks are identified and minimised, and that staff are trained to respond quickly to a spill are all critical elements that must be in place to ensure adequate management of these activities. This plan has been prepared to ensure that the risk of spills are controlled, and sets out the proposed consent conditions and minimum standard expected at this site and must be provided to Canterbury Regional Council on request.

1.3 Site Activities

The key activities that may present a risk of a spill of hazardous substances on this site are the refuelling of equipment, maintenance of vehicles/machinery such as the repair of a hydraulic hose, and a spill of a substance from a vehicle driving on an access road. The key hazardous substances relating to these activities are fuels and hydraulic fluids. Other

hazardous substances that are typical on a quarry site are minimal levels of aerosols, greases, paints, and compressed gases such as oxygen and acetylene.

1.4 Site Responsibility

The overall management of the site will be the responsibility of the Roydon Quarry Manager or delegated authority and will include:

- Ensuring compliance with relevant resource consents conditions;
- Communicating resource consent requirements to staff, contractors and all other relevant parties;
- Ensuring compliance with the SMP and all other associated documents;
- Maintaining the hazardous substance inventory, stock reconciliations and ensuring adequate controls are implemented;
- Investigating effectiveness of operating procedures and communicating if any changes need to be made;
- Inspection and maintenance activities;
- Reviewing environmental incidents;
- Leading staff to ensure environmental responsibility is being practiced.

1.5 Training

Operational staff who will be undertaking works at this site will be trained and equipped to identify and minimise spill-related hazards and trained in the use of spill kits to respond safely to all incidents.

To facilitate this, Fulton Hogan employees will attend Fulton Hogan's internal "Enviro Wise" programme which provides an introduction to key environmental hazards, their controls and sustainability. Specifically, during this training programme, staff will be involved in a controlled practical spill response session and the appropriate clean-up method to be used from a typical spill kit.

2.0 SPILL CONTROLS

The key approach to the management of hazardous substances on site is to reduce the risk of spills occurring. Attention in this area will significantly reduce the risk of business interruption, costs and wastage by minimising the occurrence of spills in the work area:

The following measures will be implemented for the storage and handling of hazardous substances and will be in line with the Health and Safety at Work Act (Hazardous Substances) Regulations:

2.1 Hazardous Substances Inventory

- An inventory of all hazardous substances, stating maximum volumes will be maintained on site.
- The volumes of hazardous substances stored will be reduced as far as practicable. Any materials deemed surplus to requirements will be disposed of at an appropriate disposal facility.
- All Safety Data Sheet's (SDS) for each substance will be available to ensure that the appropriate PPE and clean up/disposal methods can be referred to in the event of spill.

2.2 Storage

- All hazardous substances will be stored within a designated area and controls implemented as outlined in the Hazardous Substance Regulations.

2.3 Refuelling of Vehicles, Machinery and Generators

- The refuelling of vehicles/machinery will not occur on the quarry pit floor and will be undertaken at a designated hardstand area in the central processing and storage area. This area will be roofed, with spill management provisions.
- The only exception to this will be the refuelling of generators for mobile plant within the quarry pit floor. Refuelling will be supervised at all times, with an appropriately trained person supervising. A spill kit will be available for access immediately during this process.

2.4 Servicing and Maintenance of Vehicles and Machinery

- The servicing and maintenance of vehicles will not occur within the quarry pit floor and will be undertaken at a designated hardstand area within the central processing and storage area. This area will be in the same location as the refuelling area and will be roofed, with spill management provisions.

- The maintenance of fixed and mobile crushing plant will be undertaken within the quarry pit floor. Controls such as drip trays will be in place for specific activities that are at risk of spilling a hazardous substance such as the replacement of a hydraulic hose.
- All maintenance of vehicles and machinery will be undertaken by a person that has been assessed as 'competent to operate' for this task.

2.5 Vehicles on Access Roads

- The Quarry Manager will inspect site access roads for spills during twice daily regular drive-overs of the operation.
- Personnel inducted to site will be instructed to notify the Quarry Manager immediately if a spill has occurred from their vehicle.
- The spill kit from the designated refuelling/maintenance area will be used to immediately clean up any spills that may occur on access roads.
- All Fulton Hogan truck drivers are representatives of the company, are radio connected and act as 'additional eyes on the ground'

2.6 Fixed Diesel Storage

- An above ground, fixed diesel storage tank will be located on an impervious platform within the central processing and storage area.
- The diesel tank will have a secondary containment system as outlined in the Hazardous Substance Regulations.
- The diesel tank will be fitted with an overfill protection device. All fittings will have dry break couplings and manual dips or checks of the capacity of the tanks will be take prior to delivery of fuel.
- All vehicle refuelling will take place on a impervious hard stand, within an enclosed roofed area with spill management provisions. This area will be designed to enable a refuelling truck to be located under the roofed hardstand area.
- During diesel delivery and refuelling, staff trained in the delivery of hazardous substances will supervise the filling process to ensure overflowing does not occur.
- Only approved personnel with fuel cards will have access to the fuel within this system.
- A monthly visual inspection of the tank connections, pipework and ancillaries will be undertaken by the Quarry Manger or delegate to observe for leaks and system integrity will be undertaken by the Quarry Manager or delegate.
- Fuel stock reconciliation will be undertaken within 24 hours of any diesel being delivered and thereafter on a fortnightly basis. A monthly review of cumulated variances between the quantities fuel used, use and stock-on hand will be undertaken. If a discrepancy of

more than 100 L or 0.5 percent, whichever is smaller, then the CRC Manager will be notified within 24 hours.

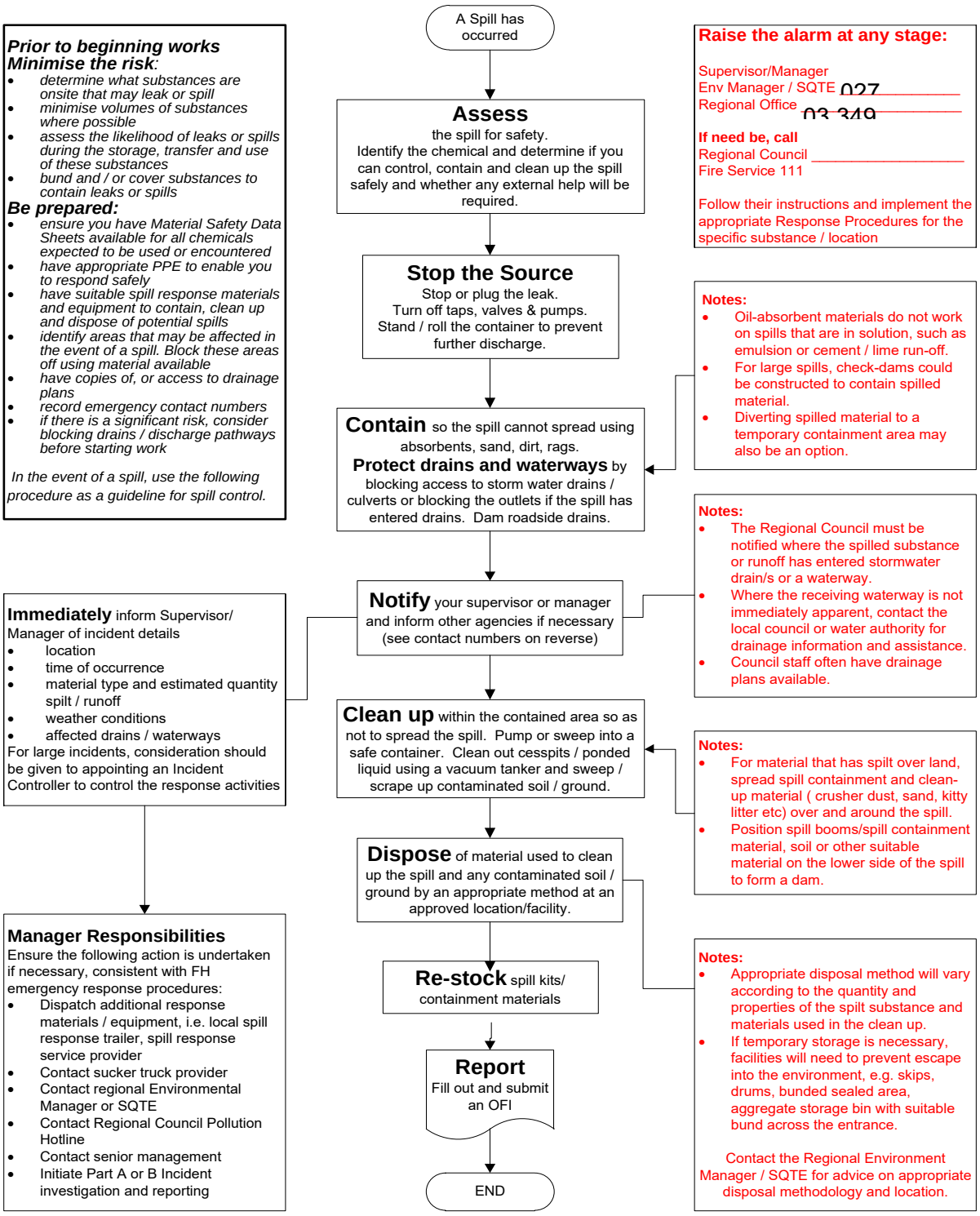
2.7 Spill Kits

- A spill kit capable of absorbing all fuel and oil products will be available at all times.
- Spill kits capable of absorbing fuel and oil products will be placed in critical areas such as at the dedicated maintenance and refuelling area, and during the maintenance and refuelling of equipment within the quarry pit floor.
- Spill kits will be regularly inspected to ensure they are fully stocked.
- The Quarry Induction will show locations of all spill kits on site.

3.0 SPILL RESPONSE PROCEDURE

In the event of a spill, it shall be cleaned up as soon as practicable with the Spill Response Procedure outlined in Figure 1 followed.

Figure 1 Spill response Procedure



4.0 ASSURANCE

4.1 Staff Training

The Quarry Manager will ensure that all staff and contractors on-site have been inducted to the requirements of this Spill Management Plan, and have undertaken any necessary training.

4.2 Inspection and Maintenance

The inspection and maintenance of the spill kits etc will be the responsibility of the Quarry Manager, with particular attention to ensuring all equipment is replaced after use or other consumption.

4.3 Environmental Auditing

The Roydon Quarry site will be audited annually against its resource consent requirements and associated management plans including the SMP, by the Fulton Hogan Environmental team. Formal compliance monitoring by SDC and Ecan will be at their instigation. Informal monitoring and checks will be conducted by the Roydon Quarry Manager or appropriate delegate, on an ongoing basis through the likes of Stay Safe Engagements or Spot Audits.

4.4 Non-Conformances and Complaint Response

The CRC Manager will be informed within 24 hours of a spill event exceeding four litres, and the following information will be provided:

- The date, time, location and estimated volume of the spill;
- The cause of the spill;
- The type of hazardous substance(s) spilled;
- The clean up procedures undertaken;
- Details of the steps taken to control and remediate the effects of the spill on the receiving environment;
- An assessment of any potential effects of the spill;
- Measures to be undertaken to prevent recurrence.

All incidents including non-compliance with environmental controls, environmental incidents, complaints, hazards and near misses will be entered into the Fulton Hogan's incident management system (CAMs – Case and Action Management Systems) to allow recording, tracking, investigated and closed off when dealt with appropriately.

As well as the standard details recorded in CAMS, for complaints it will be ensured that the following details are recorded

- Complainant details;
- Information about the incident as described by the complaint;
- Who received the complaint and how it was received;
- Weather conditions at the time of the complaint;
- Identification of the possible cause of the complaint following the investigation;
- Details of the corrective action taken at the time to resolve the incident;
- Details of the preventative actions to be taken to ensure the likelihood of such events occurring in the future are minimised.

The Quarry Manager will lead all responses to the complainant

A summary from CAMS will be provided at the CLG meetings.

5.0 DOCUMENT REVIEW

Fulton Hogan will review this document on a five yearly basis, or under the following circumstances:

- For the purpose of improving the efficacy of spill management control measures at the site;
- Consistent with the conditions of Canterbury Regional Council consent requirements.
- Following significant environmental incidents;
- At the completion of environmental audits;