

Cleanaway Solid Waste PTY LTD

Dardanup Landfill

EMERGENCY MANAGEMENT PLAN

ADDRESS: Lot 2 Banksia Road, Dardanup, WA 6236

TELEPHONE: +61 8 9725 6344 - Weighbridge

FAX: N/A

REGIONAL MANAGER: John Mulholland

TELEPHONE: 0466391105

SITE SUPERVISOR: TBA

TELEPHONE: 0428928516

EMERGENCY CONTROLLER: Leading Hand determined by date

TELEPHONE: 0423987123, or 0429107795

Prepared by: John Mulholland.

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FIRE CONTROL PROCEEDURE CWY BANKSIA ROAD

Landfill Fires

Landfill fires can be caused by, but not limited to;

1. Chemical reaction - those caused by an oxidizer or reactive agent;
2. Ignition - those caused by hot sparks, matches, cigarettes, and;
3. Spontaneous combustion- caused by compacted wet grass, waste, etc.

CWY Banksia Road Site Map



CWY Banksia Road Contacts

Weighbridge (0600-1800) 0401 235 654

Operations Manager (A/H) 0428 928 516

Leading Hand (A/H) 0423 987 123 or 0429 107 795

Site Communication UHF Channel 31

CWY Banksia Road Fire / Hotspot Response Protocol

1. Identification of Fire/Hot Spot in active Landfill Area, Waste Processing Area or Storage Area

1. CWY responder onsite to enact immediate internal incident notification protocol, notifying in order of preference until immediate verbal notification is achieved:
2. CWY responder onsite to inspect and estimate area of fire:

< 50m². Where area is estimated to be less than 50m², and at least two CWY machine qualified operators are available, CWY resources may be deployed to contain the fire. Fire department to be notified as soon as reasonably practical

> 50m² or if there is less than two CWY machine operators. Where area is estimated to be greater than 50m² or if there is less than two CWY machine qualified operators are available, emergency services 000/DFES must be engaged immediately.

2. Containing the Fire with CWY Resources

CWY responder onsite:

1. Call 'fire, fire, fire' over UHF channel 31;
2. Deploy watercart to affected area; Refer Appendix A for water cart specs
3. Divert waste trucks and non-essential machines away from fire affected area;
4. Deploy suitable machines to:
 - Push/isolate fire affected material and surrounding non-fire affected material out of the fire zone onto areas of inert or cover material; **AND/OR**
 - Push inert material such as sand or clay onto the fire zone, particularly where fire zone is on a slope or batter.

Keynote: sufficient stockpiles of cover material, (enough to cover all open waste) must always be maintained within the vicinity of the tip face, and an excavator, traxcavator, or wheel loader available for Cleanaway operation.

5. Use water truck to saturate isolated fire affected material.
6. Push out saturated fire affected material in a layer of less than a metre in thickness.
7. Establish the below information and notify DFES, via 000, of the fire as soon as practicable:
 - a) CWY control over fire, including contact details of CWY controller
 - b) Approximate size fire,
 - c) Exact location via supply of map on arrival,
 - d) Wind direction and speed

Note: Machines are not to come into direct contact with flames. Use the blade to roll up unburned material in front of the machine as a protective barrier between the machine and the flames.

Machines must have cabs sealed closed.

Direct contact with DFES regional office should only occur if absolutely necessary

- **Office number within business hours 9780 1900**
- **After Hours Regional Duty Coordinator 1800 411 742**

3. Management of Fire Affected Material

Senior CWY responder onsite to arrange:

1. Fire affected material to be isolated and remain isolated.
2. Periodic saturation of affected material / area with water truck, at least once in two hours and every two hours thereafter where resources permit
3. Covering of affected material with 150mm inert type 1 material and keep covered for at least 24 hours. **Keynote:** sufficient stockpiles of cover material, (enough to cover all open waste) must always be maintained within the vicinity .
4. Monitoring of temperature in affected area with handheld heat gun or heat probes; in the case of probes, leave in place for minimum of 24 hours.
5. CWY Site Manager, in collaboration with CWY Health and Safety Business Partner to risk assess integrity of extinguished fire and requirement to enact the Fire Watch Plan where afterhours monitoring is required. If the fire is in the tip face, or batter and cannot be dug out a fire watch is required.
6. Uncovering and/or compaction into normal tip contour once temperature of the affected material reaches normal tip surface temperature as determined by handheld heat gun or heat probes, and after notification is made to DFES

Note: Where fire is estimated at greater than 50m², third party testing is conducted to determine whether or not an underground fire is ongoing using criteria and methodology consistent with DWER licence. – the size will be where it is not operationally practical to dig it out.

4. Communication

1. Ensure DFES are notified of all fires which occur on site by calling 000 or local number depending on the severity of the fire
2. Ensure DWER (regulator) are notified immediately after the fire and followed up with formal report as per licence requirements.
3. Ensure Management, HSBP, Senior HSBP, Environmental BP and Senior Environmental BP are notified of the fire so it can be reported to regulator (Comcare).

5. Role of Weighbridge Attendant in Fire Situation (Working hours 0600-1800)

1. Advise incoming vehicles of fire
2. Divert oncoming vehicles away from weighbridge/do not accept loads.
3. Establish the below information and advise any DFES trucks on arrival and provide a site map detailing location of fire and route for Fire Trucks to access safely.
4. Name and contact details for the Senior CWY Responder
5. CWY control over fire,
6. Approximate size fire,
7. Exact location (marked on the map); and
8. Wind direction and speed

CWY Banksia Hot Load Response Protocol

If a hot load is discovered in a truck outside the landfill, the carrier may be instructed by the dispatcher or emergency services to eject the load in a safe area before reaching the landfill; the landfill will not accept known hot loads unless it is reasonably practicable and safe to do so.

Usually trucks are not aware that they have a hot load and will proceed to the weighbridge as normal, and that is where the hot load is identified by the weighbridge attendant. The following procedure refers to situations such as this.

1. Identification of Hot Load Entering Site or Within Active Landfill Area, Waste Processing Area or Storage Area

CWY responder onsite to:

1. Divert hot load to inert covered area or stockpiles if safe to do so;
2. Deploy watercart to area; Refer Appendix A for water cart specs
3. Divert waste trucks and non-essential machines away this area;
4. Truck to eject load if safe to do so – This is usually under the direction of emergency services;
5. Deploy suitable machines to;
 - a) Isolate affected material; AND/OR
 - b) Push inert material such as sand or clay onto the hot load material, particularly where hot load is on a slope.
6. Use water truck to saturate affected material.
7. Push out saturated affected material in a layer of less than a metre in thickness.
8. Fire affected material to be and remain isolated.
9. Periodic saturation of affected material / area with water truck, at least once in two hours and every two hours thereafter where resources permit
10. Covering of affected material with 150mm inert type 1 material and keep covered for at least 24 hours.
11. Monitoring of temperature in affected area with handheld heat gun or heat probes; in the case of probes, leave in place for minimum of 24 hours.
12. DFES to determine integrity of extinguished fire and requirement to enact the Fire Watch Plan where afterhours monitoring is required. If the fire is in the tip face, or batter and cannot be dug out a fire watch is required
13. Uncovering and/or compaction into normal tip contour once temperature of the affected material reaches normal tip surface temperature as determined by handheld heat gun or heat probes, and after notification is made to DFES South West Region (9780 1918 or 0427 026 964)

2. Machine and Vehicle Fire Protocol

As soon as a machine fire is detected, the following things are to occur:

WHAT TO DO

1. Quickly move the machine off the working face, if safe to do so.
2. Turn the machine OFF.
3. Quickly activate the fire suppression system by pulling the safety ring pin and pushing down the actuator plunger. Disconnect master switch, if safe to do so.
4. Move away from the machine. Take a hand portable fire extinguisher with you, if safe to do so.
5. Communicate with Supervisor.
6. Supervisor to contact emergency services 000 and notify them of a vehicle fire and enact fire control process at the direction of DFES.
7. Stand by with the portable extinguisher at a safe distance.

Note: If fire has been extinguished it is still required to be communicated through to emergency services

WHY DO IT

1. Moving the machine off the face will prevent the fire from spreading to the waste. If the fire grows too rapidly to move the machine, activate the fire suppression system and abandon the machine.
2. If the machine is left running, it may add fuel or flammable oils to the fire or restart the fire.
3. React quickly in activating the suppression system to reduce the threat of spreading fire.
4. By leaving the immediate area, you are protected from flames, explosions or other dangers created by the fire.
5. Heat from the fire will cause re-ignition after the Fire suppression System has discharged. Therefore, it is important that someone standby at a safe distance with a portable extinguisher.

WHAT TO DO AFTER THE FIRE IS OUT?

Take directions from emergency services ;

Machinery should not be re-started until it has been serviced, cleaned and repaired;

IMMEDIATELY recharge the fire suppression system!

Directions for Fire Services Attending Cleanaway Landfill Site Emergency

Banksia Road turn left into Landfill Site:



Entering site via Weighbridge – Weighbridge Attendant present during hours 0600 to 1800



Site Map

Route to Primary stormwater Dam 1 for filling fire trucks, with hydrant system – 65mm BIC camlock fitting

Alternate route in via Bunbury Harvey Regional Council Composting Facility

Route around entire landfill facility.
Note: CWY responder to provide directions on entry to landfill given nature of frequent change in access



Water Bore to ensure 50klit water supply is always available

Route to Secondary stormwater Dam 2, and access through to landfill perimeter – not for fire truck fill; use Dam 1

Water source – overhead standpipe

- Weighbridge and Muster
- Main site entry
- Alternate entry
- Truck turn around area

Hardstand and Hydrant filling area at Stormwater Dam 1



- Compacted all weather surface
- Suitable for type 3.4 fire appliances and able to support 30tonne vehicular mass
- 65mm BIC male coupling for fire truck refilling (separate to standpipe)
- Adjacent, sealed passing area and turnaround circle

Secondary Stormwater dam 2 for water truck feed only



- Standpipe only for filling water carts (no 65mm BIC coupling for filling fire trucks)
- Capable to support 30tonne vehicle
- No passing
- Full turnaround area

Potential DFES camp set up location; lighting, power, communications, truck parking with passing access, drinking water, toilets, lunchroom, offices, under cover area for briefing

Potential DFES camp set up location; lighting, power, truck parking with passing access, toilets, under cover area for briefing



North and south boundary sprinkler system; if required, manually operated via Cleanaway Leading hand

Appendix A; Watercart Specs



65mm BIC coupling –
capability to feed water
supply to fire truck if required

- Minimum 15 klt capacity
- 65mm BIC fire service fitting – ability for DFES fire trucks to draw water feed from the water truck
- Water cannon – in cab operated
- Front and rear spray bars
- Off road terrain capability - capability to access landfill terrain outside of sealed roads
- Inbuilt fire suppression system

