

Pollution Incident Response Management Plan

Kariong Sand and Soil Supplies

Construction and Demolition Waste Recycling Facility
90 Gindurra Rd
Somersby

January 2019

EXECUTIVE SUMMARY

This Pollution Incident Response Management Plan (PIRMP) has been developed for a sand, soil and building materials recycling facility located at 90 Gindurra Rd, Somersby NSW.

This document has been set out to fulfil the requirements of Part 5.7A of the *Protection of the Environment Operations Act 1997* and contains the details required for pollution incident response management plans as set out within Part 3A of the *Protection of the Environment Operations (General) Regulation 2009*.

The content of this plan includes:

- The procedures to be followed by the licence holder in notifying a pollution incident;
- A detailed description of the action to be taken immediately after a pollution incident to reduce or control pollution; and
- The procedures to be followed for co-ordinating, with the authorities or persons that have been notified, any action taken in combating the pollution caused by the incident and the persons through whom all communications are to be made.

It is important to note that this PIRMP is a working document. If operating conditions or resource recovery practices on the site change, the PIRMP needs to be updated to reflect the changes in practices. Kariong Sand and Soil Supplies is committed to working with the NSW Environment Protection Authority (EPA), and appropriate changes to the conditions of the Environment Protection Licence will be made before any site changes are implemented.

Below is a summary of the immediate steps to be taken in the event of a pollution incident (Table E.1).

Table E.1. Summary of Pollution Incident Response.

In the event of a pollution incident		Responsibility and Action Required	Section of Report
Step 1	Contact Director / Operations Manager		Section 7
Step 2	Is there an immediate threat to human health and the environment?	Call Emergency Services (000) or 112 for mobile phones	Section 8.1
Step 3	Does the site need to be evacuated?	Initiate evacuation procedure Safely follow pollution incident procedures	Section Error! Reference source not found.
Step 4	Inform other relevant authorities of the incident	Follow the pollution incident plan contacting the relevant authorities	Section 8.1
Additional staff responsibilities			
Step 5	Onsite Staff	Operations Manager	Director
	Assist with Clean Up	Coordinate onsite plan	Call relevant regulatory authorities as specified in Section 8.1
	Follow instructions of Operations Manager	Barricade off area and notify staff onsite	Engage appropriate consultants
		Complete incident reporting form	Submit incident report form to EPA
			Review this plan within 30 days of report

It is recommended that all sections of this document are read, and the appropriate training undertaken, prior to responding to an incident.

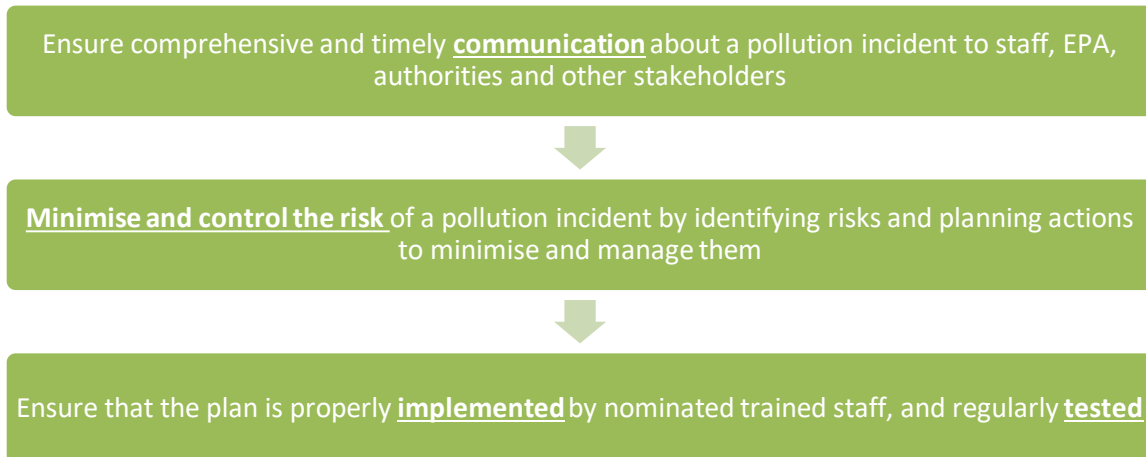
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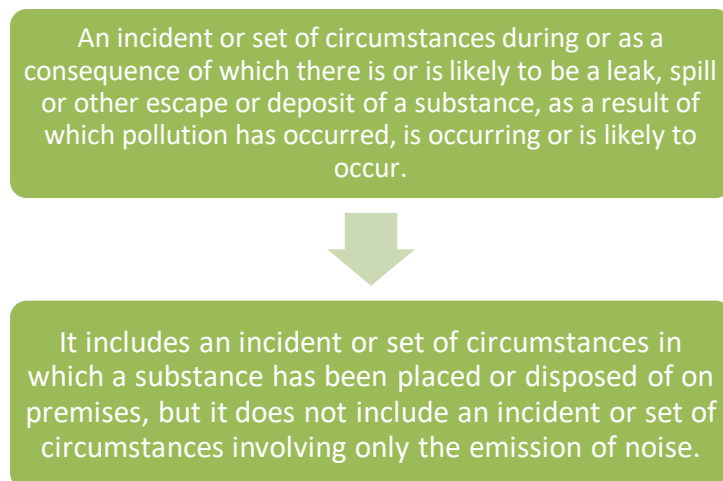
1. Purpose of This Plan

Under the *Protection of the Environment Operations Act 1997*, holders of an Environment Protection Licence (EPL) must prepare and implement a PIRMP.

The objectives of the PIRMP are to:



A “pollution incident” is defined as:



The PIRMP must be:



2. About the Site

Address	<ul style="list-style-type: none"> • 90 Gindurra Rd, Somersby
Lot number	<ul style="list-style-type: none"> • Lot 4 DP 227279
Site size	<ul style="list-style-type: none"> • Approximately 10.8 hectares in total.
LGA	<ul style="list-style-type: none"> • Central Coast Council
Zoning	<ul style="list-style-type: none"> • IN1 - General Industrial
Regulatory Controls	<ul style="list-style-type: none"> • Under the <i>Gosford Local Environmental Plan 2014</i>, waste or resource management facilities are permissible development under the IN1 - General Industrial zoning, with consent. As such, it is considered the proposed development is compatible with the LEP. • The proposed development meets the definition of a "Resource recovery facility" under Section 120 of the <i>State Environmental Planning Policy (Infrastructure) 2007</i>. The development is considered to be consistent with Section 120 of the <i>State Environmental Planning Policy (Infrastructure) 2007</i>, being development which is permissible subject to development consent from council. • The proposed throughput of the facility (200,000 tpa) means that the development is a state significant development under the <i>State Environmental Planning Policy (State and Regional Development) 2011</i>. • An Environment Protection Licence is required for this facility under the <i>Protection of the Environment Operations Act 1997</i>
Waste types accepted	<ul style="list-style-type: none"> • The facility will receive up to 200,000 tonnes of Soil (Excavated Natural Material) that meet the CT1 thresholds for general solid waste in Table 1 of the NSW EPA's Waste Classification Guidelines; VENM; Concrete, tiles, masonry; Asphalt; Timber, stumps and rootballs; Mixed building and demolition waste; and Metals. • Overall resource recovery rate for facility is expected to be close to 95%.

2.1 Location and Site Description

The site is located at 90 Gindurra Rd, Somersby, NSW (Lot 4 DP 227279). The Site is located to the East of the Sydney Newcastle Freeway (M1). Gindurra Rd runs to the North of the site, with Kangoo Rd to the South of the site.

The KSSS site is currently operated as a soil and sand recycling business and currently has development consent as a 'Sand and Metal Recycling Facility', which was originally approved under DA 15337 on 28/02/1992. The current consent permits the receiving of soil and sand, screening, landscaping material storage in outdoor concrete block bays and machinery parking at the front of the site. The site does not have an Environment Protection Licence under the *Protection of the Environment Operations Act 1997*. There are some structures on the site. Recycled sand and soil is sold for landscaping. The site's current development approval and infrastructure limits the amount of material that can be accepted and processed (screened and sorted) at the site.

The site comprises a lot area of 10.8 ha with a 285m frontage on Gindurra Rd and 75m frontage on Debenham Rd. The facility itself will occupy approximately 6.5 hectares of the overall land area.

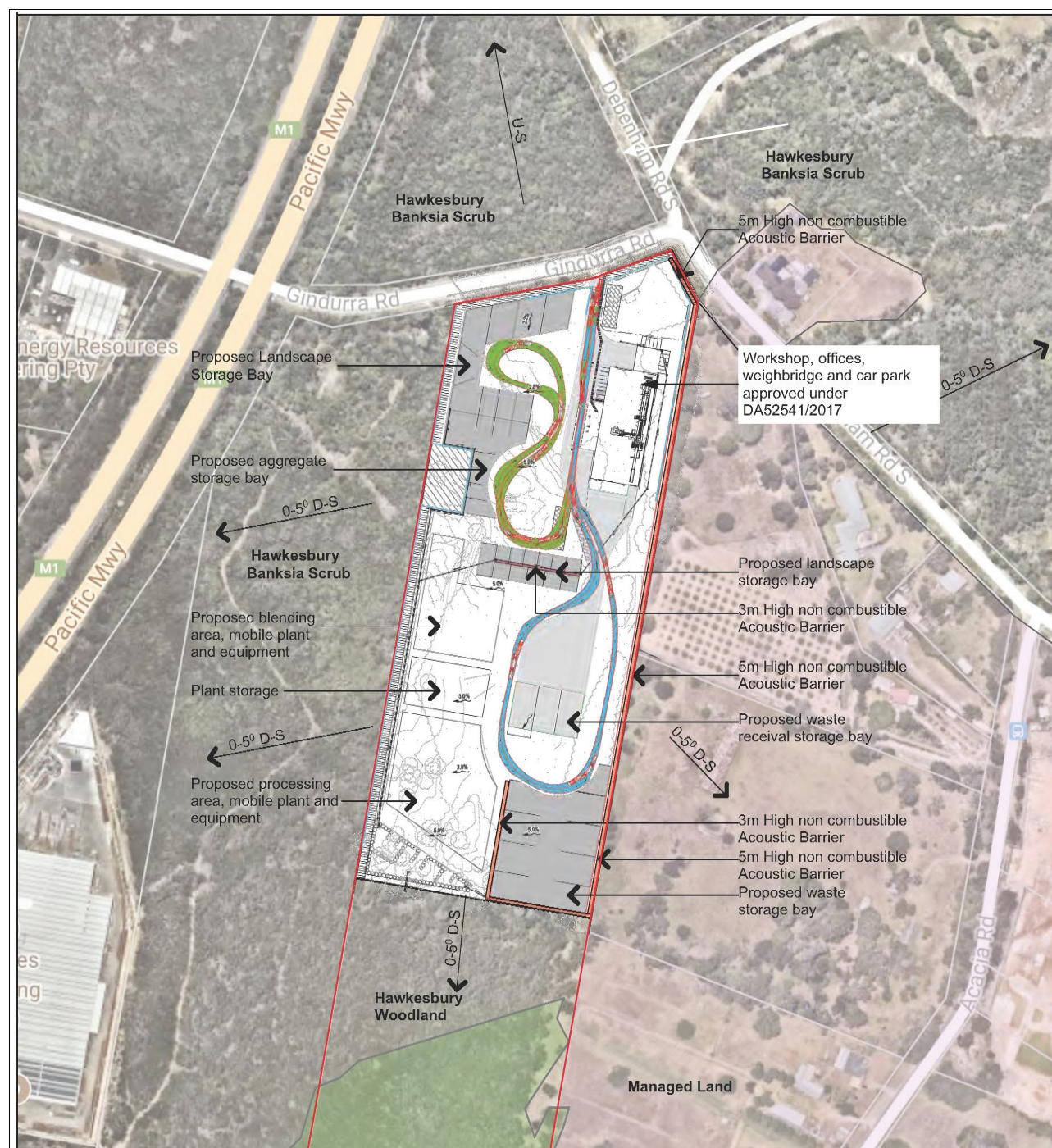
The site is largely undeveloped, with only a relatively small proportion of the site cleared at the Northern end. The Southern half of the site is bushland, which has been identified as a management area under the Somersby Industrial Park Plan of Management. It is proposed that the back (Southern) half of the site remain bushland in the new development. An aerial image of the site is shown in Figure 2.1.

The subject site is zoned IN1 General Industrial pursuant to *Gosford Local Environmental Plan 2014* as shown in Figure 2.2. The proposed development meets the definition of a "Resource recovery facility" and therefore the development is consistent with Section 120 of the *State Environmental Planning Policy (Infrastructure) 2007*, being development, which is permissible subject to development consent from council.

The proposed redevelopment of the site seeks to modify the current Development Consent to increase the maximum tonnage of waste processing to 200,000 tonnes per year and to extend the range of materials able to be received at the site to include concrete, asphalt, brick, tiles, wood, timber and metals from building and construction activities in the region. As such, it is a State Significant Development under the *Environmental Planning Policy (State and Regional Development) 2011*.

Figure 2.1 provides an aerial view and site layout for the development, together with land use zoning in Figure 2.2. Table 2.1 provides an overview of the waste receipt and processing.

Figure 2.1. Aerial view of the site with site layout overlay.



Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
15/01/19	Revision A	J. Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Aerial view with preliminary site layout
				Source	Bushfire Planning and Design

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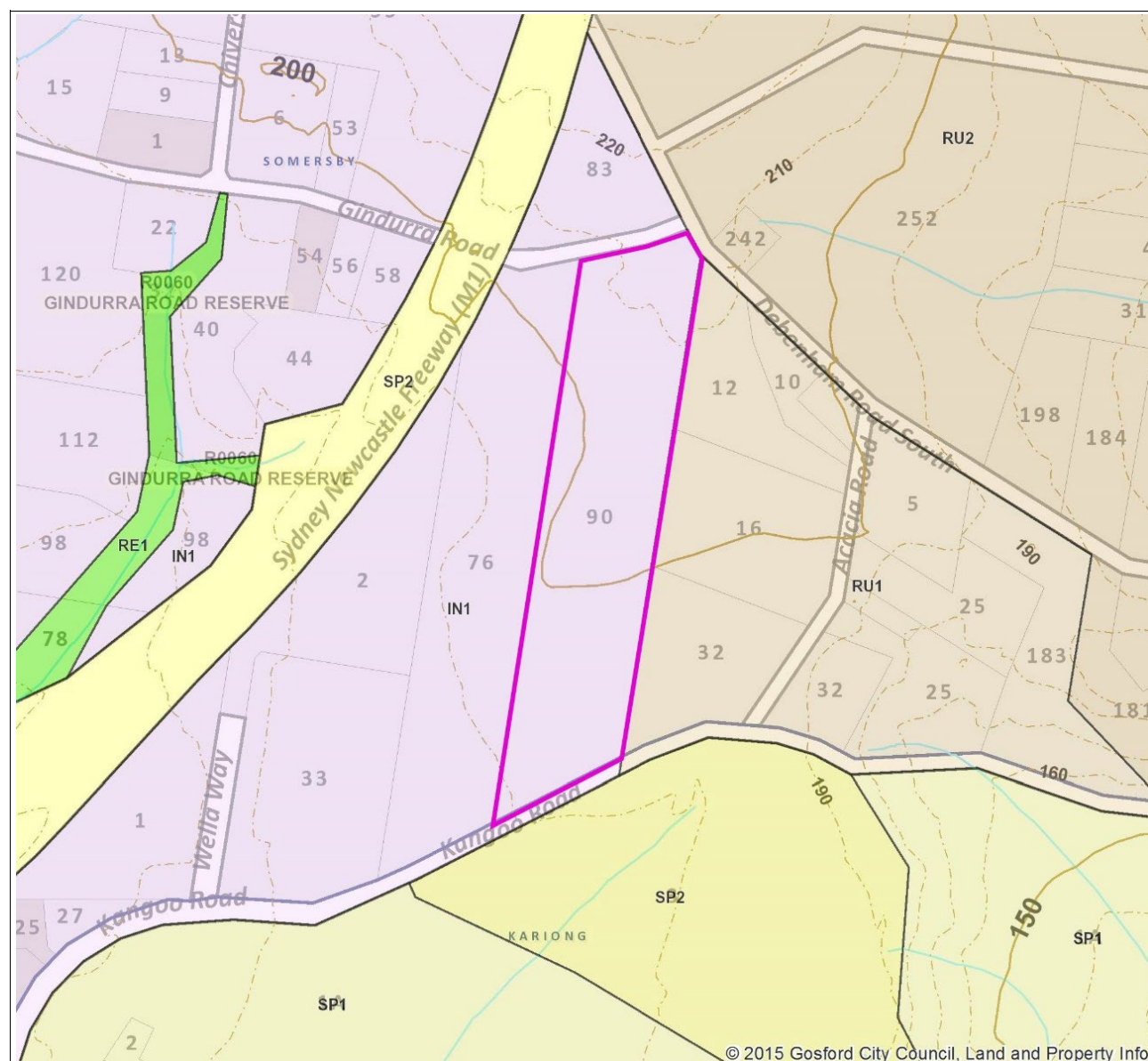
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Figure 2.2. Land use zoning of the subject site, showing the area zoned IN1 General Industrial. Lot boundaries are shown in pink. Source: Central Coast Council.



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Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
10/05/17	Revision A	J. Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Land use zoning
				Source	Central Coast Council

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Table 2.1. Overview of waste receipt and processing at maximum capacity (2025).

Waste Type	Tonnes Per Year	Process	Products	Customers
Mixed Construction and Demolition Waste	10,000	<ul style="list-style-type: none"> Processed to meet the appropriate NSW EPA Resource Recovery Order 	<ul style="list-style-type: none"> Recovered Fines Timber Aggregates 	<ul style="list-style-type: none"> Government Builders Landscapers
Concrete, Brick and Tile	46,000	<ul style="list-style-type: none"> Pulverised and crushed with a mobile jaw/ impactor/cone crusher Screened to different sizes with portable mobile screen Stored Sold on site Processed to meet the requirements of the Recovered Aggregates Order 2014 	<ul style="list-style-type: none"> Aggregates Sand Road Base 	<ul style="list-style-type: none"> Government Builders Landscapers
Metals (including steel, iron, aluminium, copper, lead etc.)	4,000	<ul style="list-style-type: none"> Separated Stored Transported off site 	<ul style="list-style-type: none"> Metals 	<ul style="list-style-type: none"> Metal recycler <p>Sims Group Australia Holdings Ltd, Milperra (EPL 2207)</p>
Asphalt	20,000	<ul style="list-style-type: none"> Processed to meet the requirements of the Excavated Public Road Material Resource Recovery Order 2014 	<ul style="list-style-type: none"> Aggregates Roadbase 	<ul style="list-style-type: none"> Government Builders
Wood/Timber/Stumps	20,000	<ul style="list-style-type: none"> Sheared and shredded to size Screened Stored Sold on site Processed to meet the requirements of the Mulch Resource Recovery Order 2014 	<ul style="list-style-type: none"> Mulch Wood chip 	<ul style="list-style-type: none"> Government Builders Landscapers
Virgin Excavated Natural Material (VENM)	20,000	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) 	<ul style="list-style-type: none"> VENM 	<ul style="list-style-type: none"> Government Builders Landscapers
Soil meeting CT1 thresholds for General Solid Waste as per EPA's Waste Classification Guidelines	80,000	<ul style="list-style-type: none"> Processed to meet the requirements of the Excavated Natural Material Resource Recovery Order 2014 	<ul style="list-style-type: none"> ENM 	<ul style="list-style-type: none"> Government Builders Landscapers
TOTAL	200,000			

2.2 Topography

Topographically, the site and surrounding areas are relatively flat. The land to the North and East of the site is currently zoned RU1. These are areas which are disturbed and used for quarrying light industrial, residential or semi-rural uses.

2.3 Nearest Sensitive Receptors

2.3.1 Neighbouring properties

The subject site is located on the edge of the Somersby Industrial Area (see Figure 3.1). The site is also surrounded by a mix of commercial premises and rural properties, with residential dwellings located approximately 200-300m from the proposed processing area (Figure 2.3).

The land to the North of the site is an RU2 Rural Landscape zone. The land to the East of the site is zoned RU Primary Production. The properties to the West of the site are part of the Somersby Industrial Park, with a land zoning of IN1 General Industrial.

2.3.1 Waterway

Stormwater from the site will be collected on site in a dam surrounded by vegetative swales on the Western boundary of the site. The water will be re-used on site, mainly for dust suppression. The nearest watercourse is a small, unnamed creek that commences at the back of 242 Debenham Rd South (Figure 2.3). The creek is approximately 300m the main processing area.

2.3.2 Vegetation and habitat

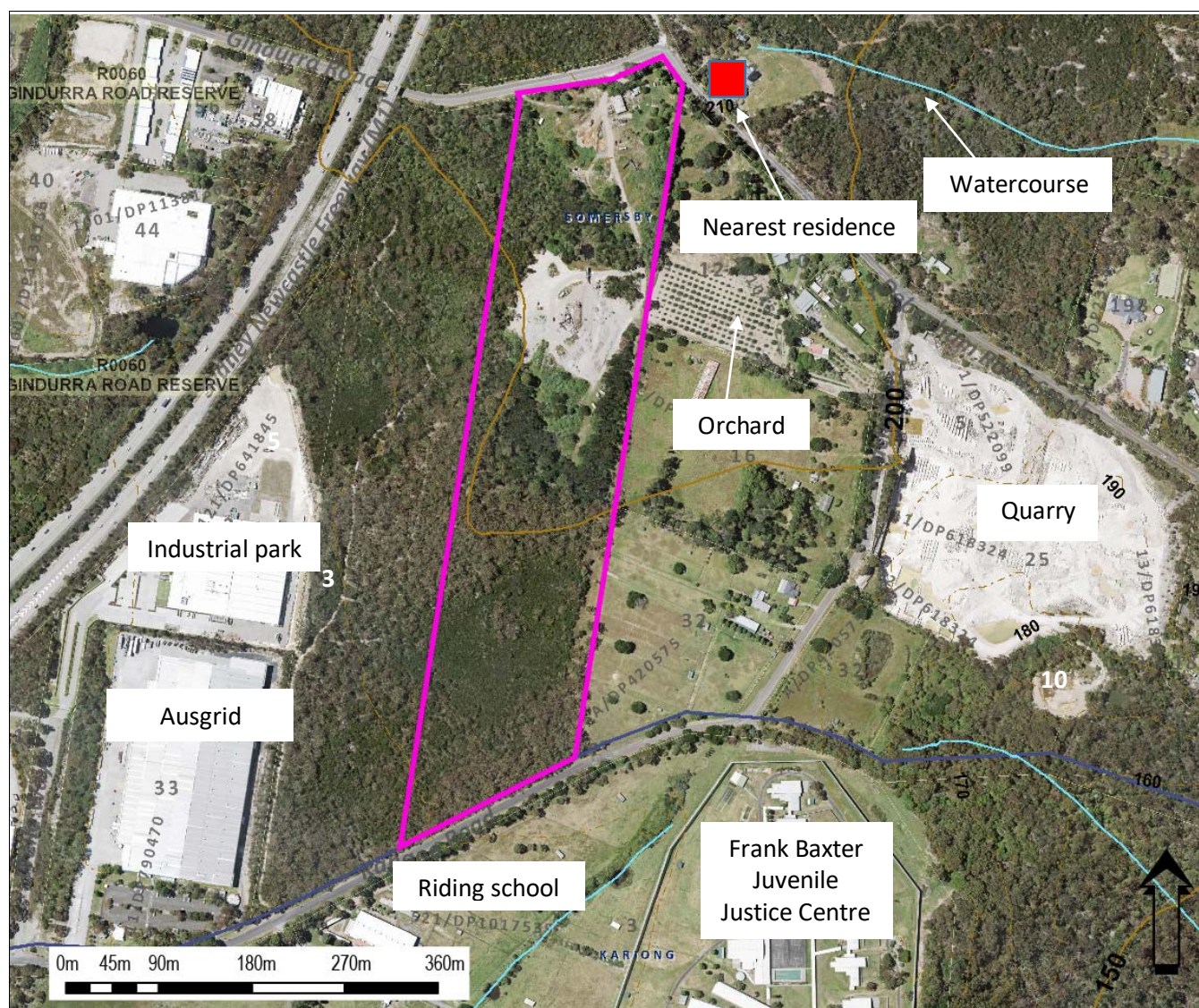
There are large sections of undisturbed bushland on the site and on the neighbouring lot to the West (see Figure 2.4). The proposed development will require clearing of vegetation at the site. A flora and fauna study of the site has been conducted. The areas proposed for clearing have not been identified as protected areas or endangered ecologies.

The draft Somersby Industrial Park Plan of Management does identify management zones at the rear of the lot. These are Sub-Zone 1(b) *Prostanthera junonis* Significant Habitat and Sub-Zone 1(d) *Hibbertia procumbens* Significant Habitat. However, these areas will not be affected by the proposed development.

2.3.3 Bushfire Prone Land

The land on and surrounding the site is designated bushfire prone (Figure 2.5).

Figure 2.3 . Area surrounding the proposed development site.



Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
10/06/17	Revision A	J Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Adjoining premises
				Source	Central Coast Council

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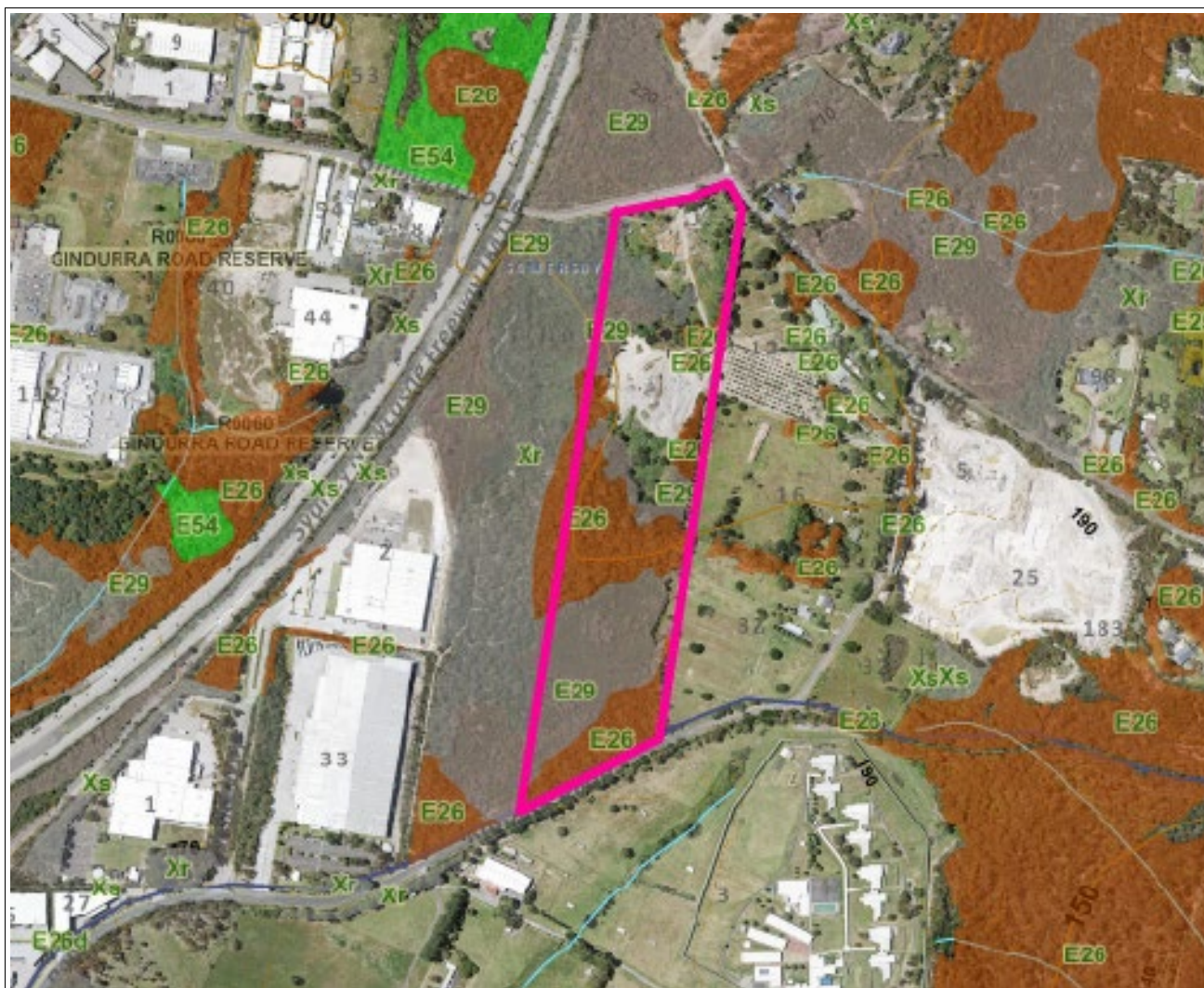
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Figure 2.4 . Vegetation on and near the site (site boundary in pink). E26 = Exposed Hawesbury Woodland; E29 = Hawesbury Banksia Scrub. Source: Central Coast Council.



Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
10/06/17	Revision A	J Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Vegetation map of area
				Source	Office of Environment and Heritage

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Figure 2.5 . Location of bushfire-prone land associated with the proposed site (lot boundary in pink; bush fire prone land in red shading as per Gosford LEP 2014). Orange shading represents major sources of vegetation potentially subject to bushfires. Source: Central Coast Council



Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
10/06/17	Revision A	J Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Bushfire prone areas near site
				Source	Central Coast Council

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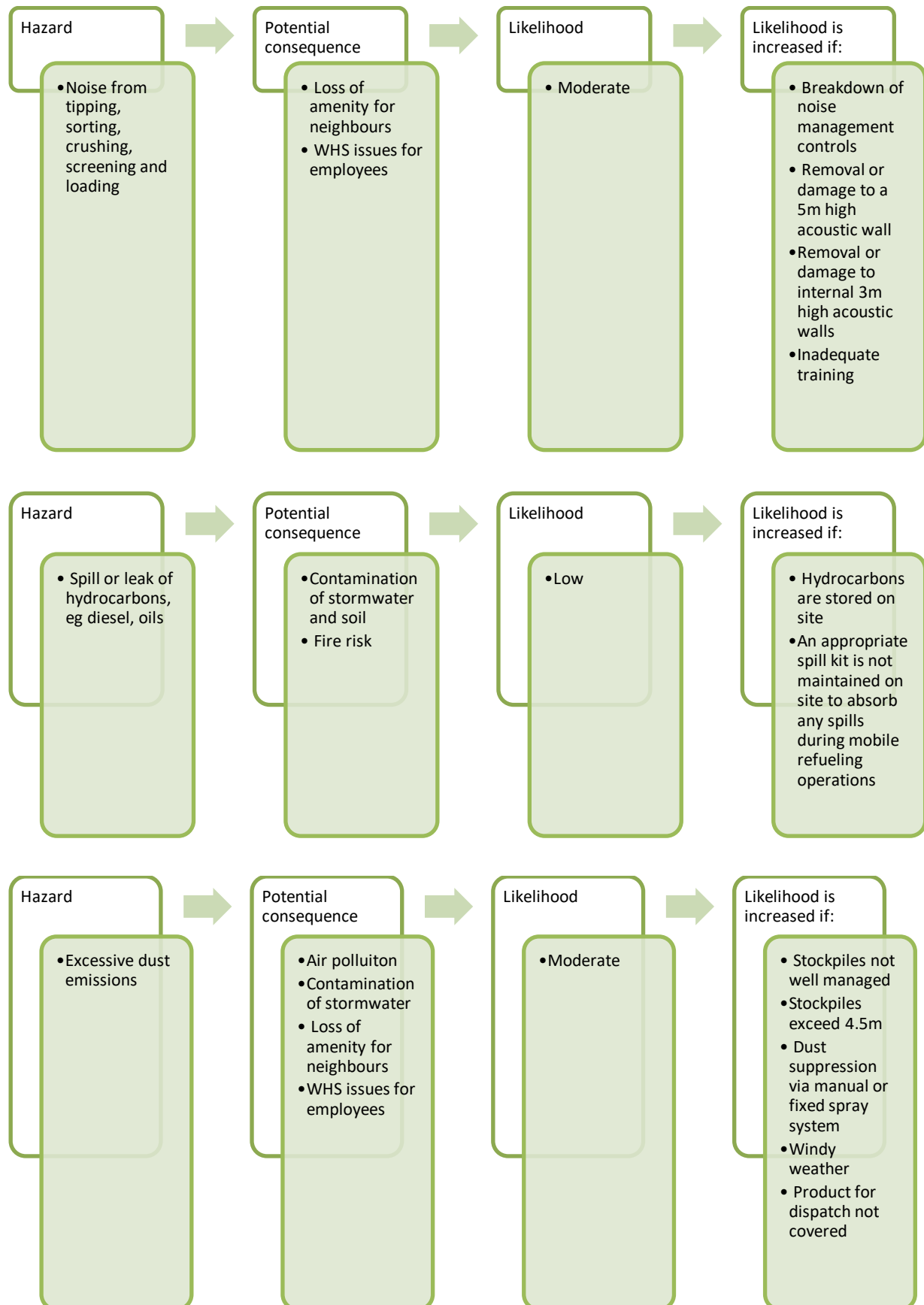
Surrounding Premises

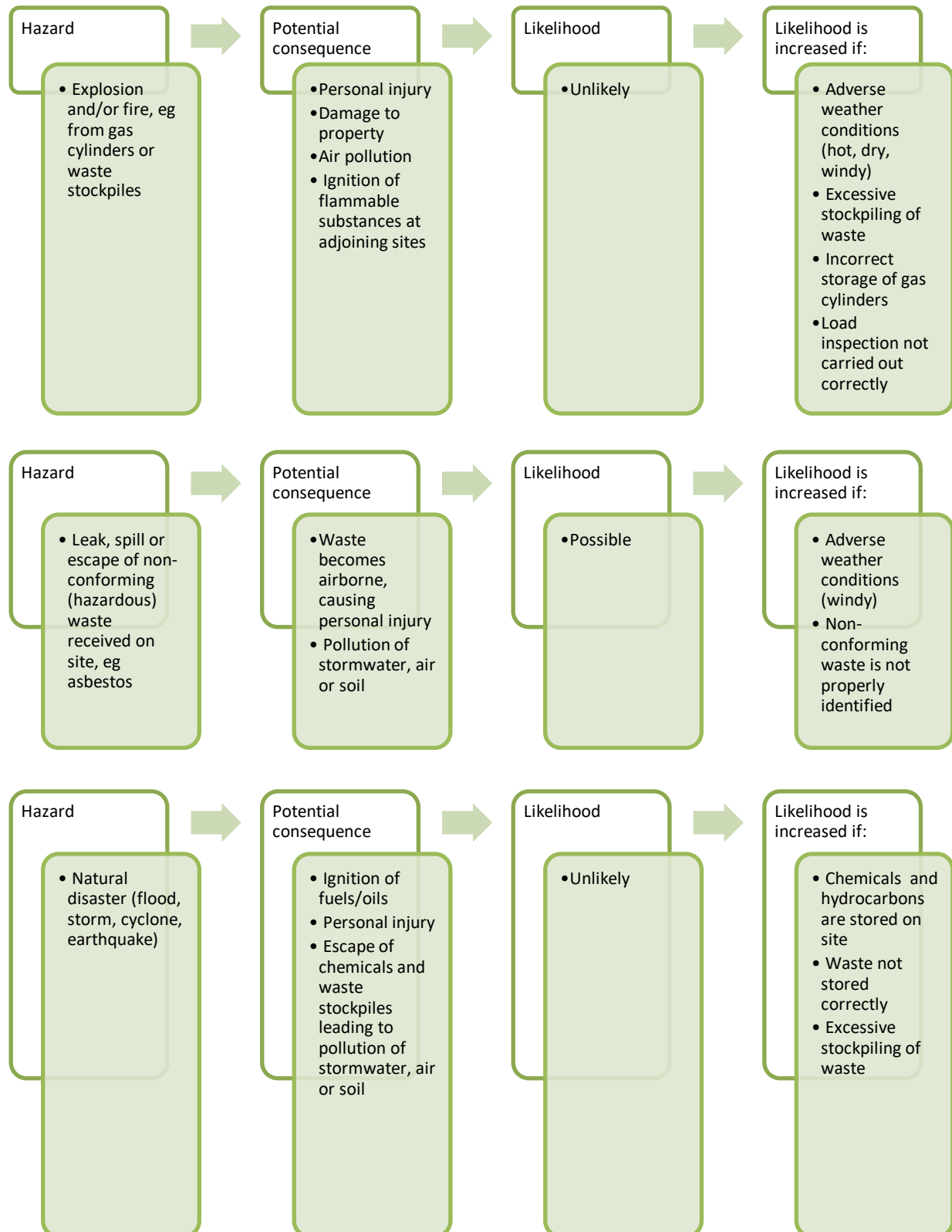
Figure 2.3 shows the Facility's immediate neighbours. The site is in an IN1 General Industrial area. The Facility is therefore considered compatible with the surrounding premises and land uses. The activities of the adjoining properties are summarised in Table 2.2. It should be noted that the list below does not include vacant properties.

Table 2.2 . Properties within 500m of the processing area.

No.	Address	Suburb	Zone	Zone Description
1	5 Acacia Rd	Somersby	RU1	Primary Production
2	10 Acacia Rd	Somersby	RU1	Primary Production
3	12 Acacia Rd	Somersby	RU1	Primary Production
4	16 Acacia Rd	Somersby	RU1	Primary Production
5	25 Acacia Rd	Somersby	RU1	Primary Production
6	32 Acacia Rd	Somersby	RU1	Primary Production
7	32 Acacia Rd	Somersby	RU1	Primary Production
8	3 Central Coast Hwy	Kariong	SP1	Special Activities
9	1A Central Coast Hwy	Kariong	SP2	Infrastructure
10	6 Chivers Rd	Somersby	IN1	General Industrial
11	97 Debenham Rd South	Somersby	RU2	Rural Landscape
12	183 Debenham Rd South	Somersby	RU2	Rural Landscape
13	184 Debenham Rd South	Somersby	RU2	Rural Landscape
14	198 Debenham Rd South	Somersby	RU2	Rural Landscape
15	223 Debenham Rd South	Somersby	RU1	Primary Production
16	242 Debenham Rd South	Somersby	RU2	Rural Landscape
17	252 Debenham Rd South	Somersby	RU2	Rural Landscape
18	22 Gindurra Rd	Somersby	IN1	General Industrial
19	40 Gindurra Rd	Somersby	IN1	General Industrial
20	53 Gindurra Rd	Somersby	IN1	General Industrial
21	54 Gindurra Rd	Somersby	IN1	General Industrial
22	55 Gindurra Rd	Somersby	IN1	General Industrial
23	56 Gindurra Rd	Somersby	IN1	General Industrial
24	58 Gindurra Rd	Somersby	IN1	General Industrial
25	21 Kangoo Rd	Somersby	IN1	General Industrial
26	25 Kangoo Rd	Somersby	IN1	General Industrial
27	27 Kangoo Rd	Somersby	IN1	General Industrial
28	33 Kangoo Rd	Somersby	IN1	General Industrial
29	31 Kowara Rd	Somersby	IN1	General Industrial
30	2 Wella Way	Somersby	IN1	General Industrial
31	2 Wella Way	Somersby	IN1	General Industrial
32	2 Wella Way	Somersby	IN1	General Industrial

3. Description and Likelihood of the Main Hazards





4. Pre-Emptive Actions to be taken

The main hazards, and the mitigation measures in place for each one, are shown below.



5. Inventory of Potential Pollutants

Table 5.1. Inventory of potential pollutants.

Potential pollutant	Storage location	Maximum quantity on site
Hydraulic oil	Storage area (warehouse)	1,000 Litres
Engine oil	Storage area (warehouse)	1,000 Litres
Gear oil	Storage area (warehouse)	1,000 Litres
Transmission oil	Storage area (warehouse)	1,000 Litres
Degreaser	Storage area (warehouse)	1,000 Litres
Brake fluid	Storage area (warehouse)	500 Litres
Grease drum cartridges	Storage area (warehouse)	100 Litres
Diesel	Storage area (warehouse)	5,000 Litres
LPG (gas)	Storage area (warehouse)	1,000 Kg

The storage and handling of the above pollutants are in accordance with:

- AS 1596:2014 The storage and handling of LP Gas
- AS 1940:2004 The storage and handling of flammable and combustible liquid
- AS 2030.1:2009 Gas cylinders – General requirements
- Storage and Handling of Dangerous Goods Code of Practice 2005.

6. Safety and Clean-Up Equipment

Table 6.1. Type and Location of Safety and Clean-up Equipment.

Equipment	Location
Spill kits	3 x 120L in processing area
Safety Data Sheets (SDS)	Office
First Aid Kit	Office
Fire extinguishers	4 x CO ₂ fire extinguishers: <ul style="list-style-type: none"> • 2x main office • 2 x processing area
Fire hoses	4 x fire hoses: <ul style="list-style-type: none"> • 1x adjacent to the wheel wash bay • 1x adjacent to weighbridge • 1x processing area • 1x adjacent to sorting screener
Personal Protective Equipment	Worn by staff, spares in office
Traffic bollards and traffic cones	Office

7. Contact Details and Responsible Persons

The person responsible for implementing this plan is shown below.

In the case of a pollution incident, the following people should be notified immediately:

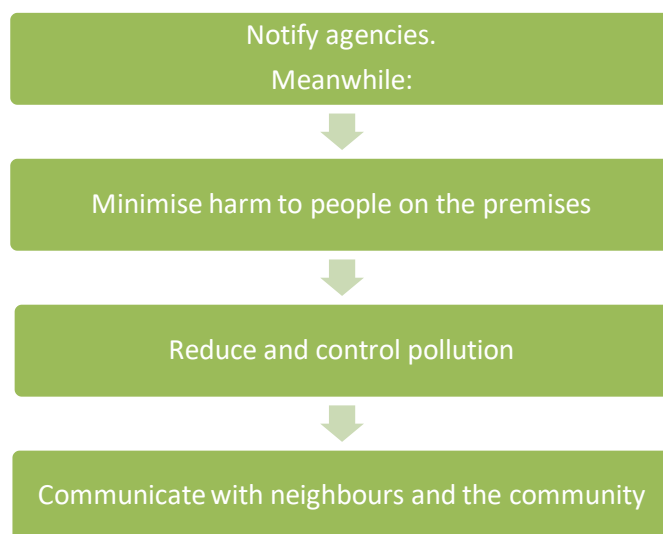
Primary site
contact

- General Manager or Director

Secondary
site contact

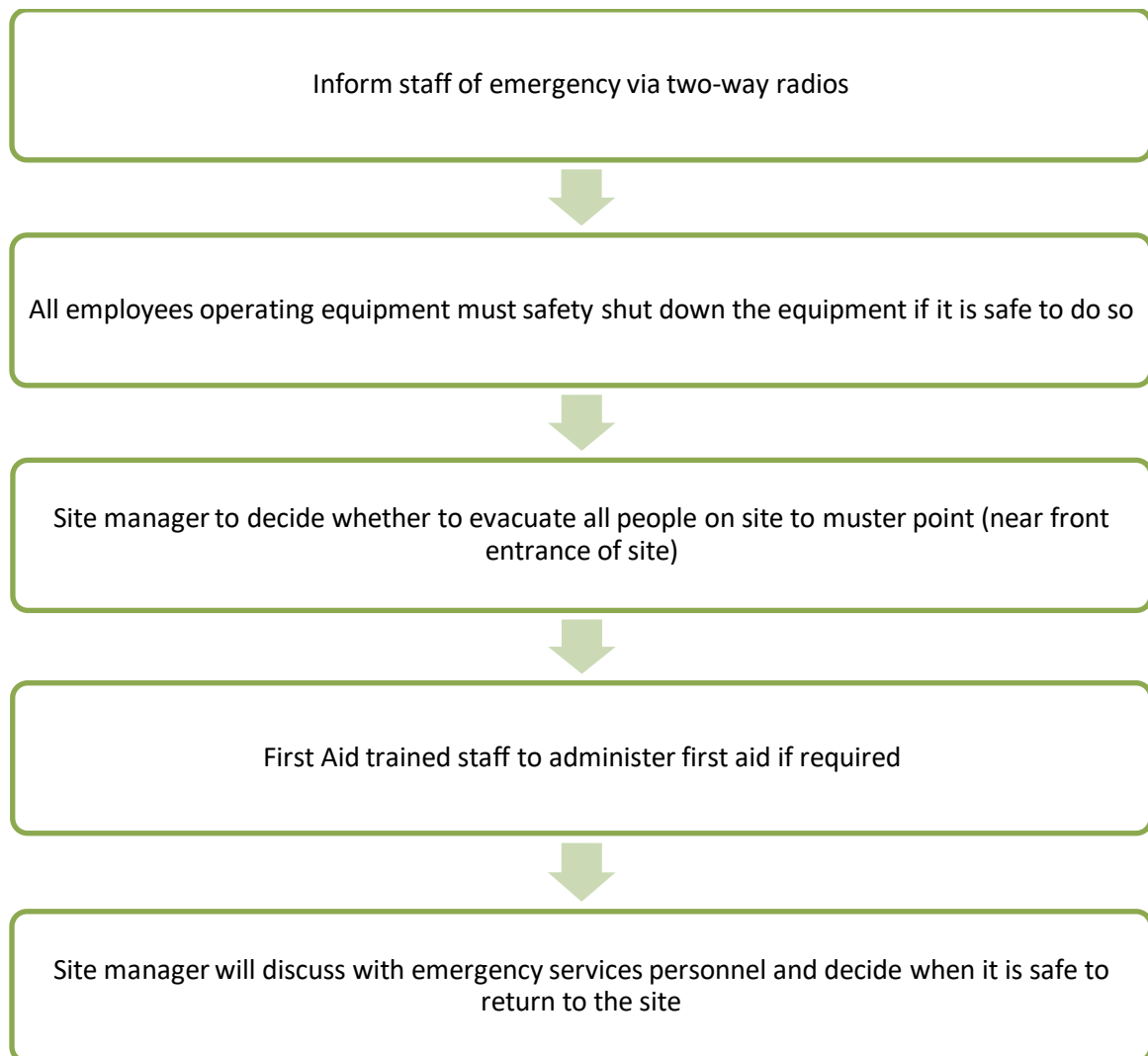
- Operations Manager

8. Actions to Be Taken During or Immediately After a Pollution Incident

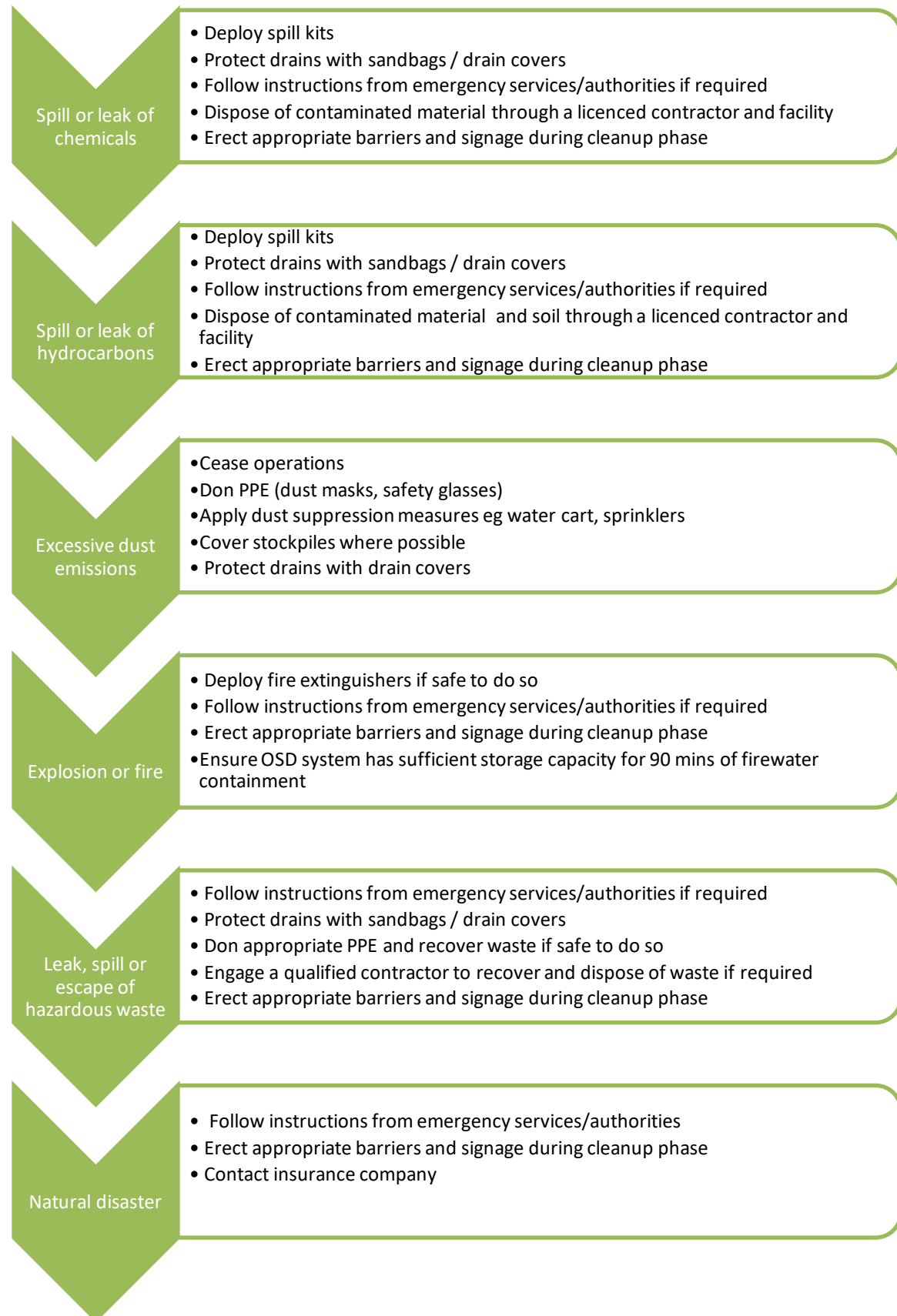


8.1 Notify Agencies



8.2 Minimise Harm to People on the Premises

8.3 Reduce and Control Pollution



8.4 Communicate with Neighbours and the Community

Is there potential for off-site impacts to the community or environment? If yes, then contact the following business via telephone or where appropriate via door knocking.

Table 8.1. Contact Details for Adjacent Premises.

Premises	Address	Contact
Residence	242 Debenham Rd South, Somersby	Door knocking
Residence	12 Acacia Rd, Somersby	Door knocking
Residence	16 Acacia Rd, Somersby	Door knocking
Residence	32 Acacia Rd, Somersby	Door knocking
Central Coast Riding School for the Disabled	1A Central Coast Hwy, Kariong Off Kangoo Rd, Somersby	(02) 4340 0388
Frank Baxter Juvenile Justice Centre	3 Central Coast Hwy, Kariong	(02) 4340 3800
Borg Manufacturing	2 Wella Way, Somersby	(02) 4340 9800
3S Lighting	2 Wella Way, Somersby	(02) 4340 4300
Hunter Lasertek	2 Wella Way, Somersby	(02) 4954 2200
Inovar Pty Ltd	2 Wella Way, Somersby	1300 466 827
Symonite	2 Wella Way, Somersby	1300 300 641
Ausgrid	33 Kangoo Rd, Somersby	13 13 88

9. Staff Training and Testing This Plan

9.1 Staff Training

All new employees will be made aware of the requirements of the plan as part of their induction process.



All employees will be trained in the use of spill kits and fire extinguishers.



All employees are required to complete refresher training on a regular basis.



In addition to the above induction and training, details of this plan will be provided to key contacts on site and off site on request.

9.2 Testing this Plan

This plan will be reviewed once a year to ensure that the information contained within the plan is accurate and current. If necessary, the plan will be updated as a new version.



Evacuation drills will be carried out at least once a year.



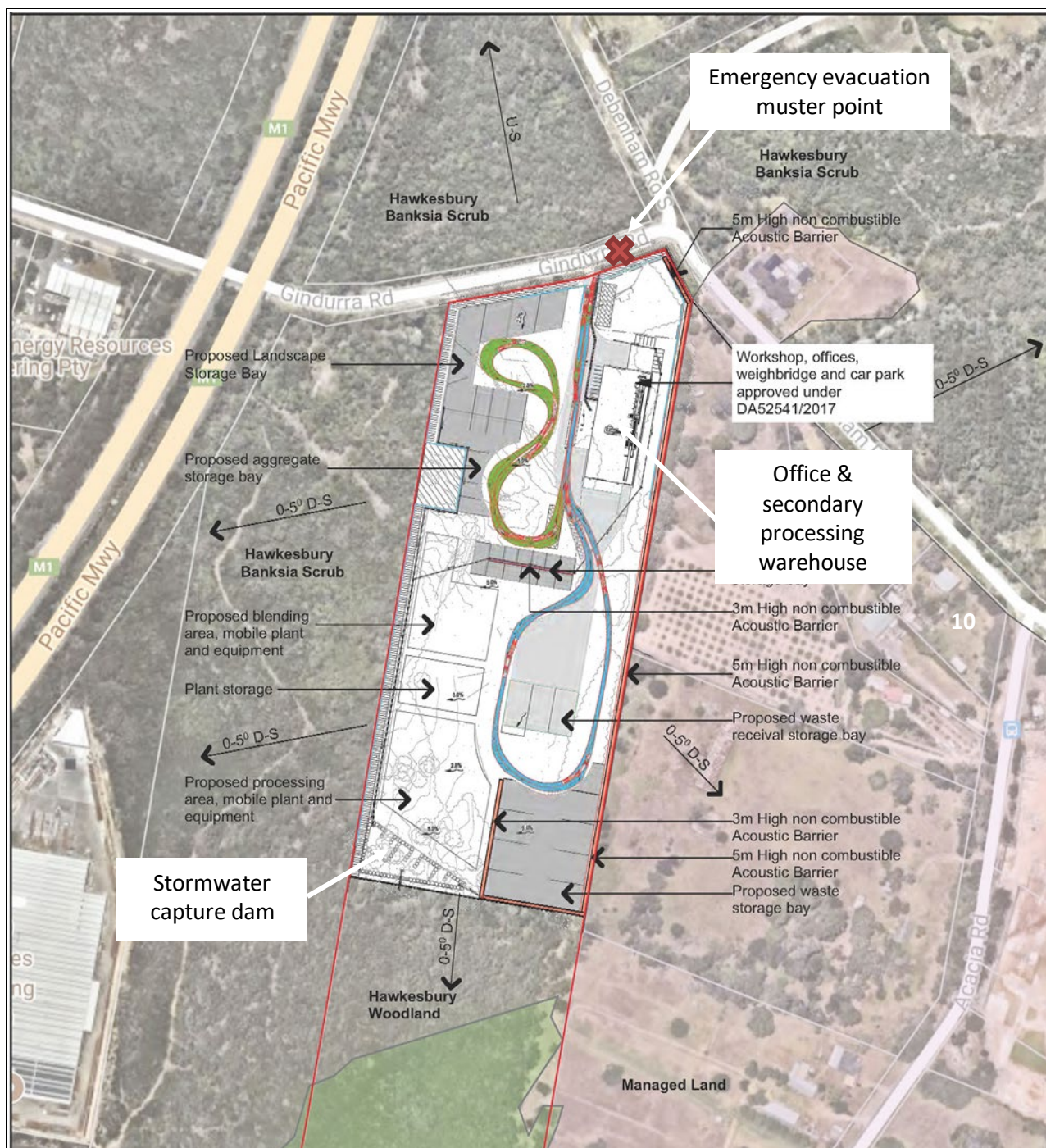
Improvements identified in the review and drills will be implemented.



Records will be kept of the reviews and drills, their outcomes and any improvements identified and implemented.

10. Location of Pollutant Storage, Evacuation Point and Drains

Figure 10.1. Location of stormwater storage and evacuation point.



Date	Revision	Drawn By	Site description	Client	Kariong Sand and Soil Supplies
15/1/2019	Revision B	J Lethlean	90 Gindurra Rd, Somersby. Kariong Sand and Soil Supplies (Lot 4 / DP 227279)	Project	Upgrades to a Sand and Soil Supplies Facility
				Title	Emergency muster point
				Source	Bushfire Planning and Design

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