Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L9448/2024/1
Licence holder	Tyrecycle Pty Ltd
ACN	085 545 053
Registered business address	30-56 Encore Avenue SOMERTON VIC 3062
DWER file number	DER2024/000418 & INS-0002792
Duration	19/11/2024 to 18/11/2044
Date of issue	19 November 2024
Date of amendment	24 July 2025
Premises details	Tyrecycle Rockingham 371 Mandurah Road EAST ROCKINGHAM WA 6168 Legal description - Part of Lot 850 on Deposited Plan 415740 As defined by the coordinates in Schedule 2

Prescribed premises category description **(Schedule 1, Environmental Protection Regulations 1987)**	**Assessed production capacity**
Category 57 Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored.	23,529 tyres at any one time
Category 61A Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.	42,104 tonnes per annum

This licence is granted to the licence holder, subject to the attached conditions, on 24 July 2025, by:

Abbie Crawford

Digitally signed by Abbie Crawford
Date: 2025.07.24 08:23:10 +08'00'

Abbie Crawford

MANAGER, WASTE INDUSTRIES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
16/04/2024	W6820/2023/1	Works Approval granted
19/11/2024	L9448/2024/1	Licence granted.
24/07/2025	L9448/2024/1	Licence amendment to store conveyer belts on reels to a maximum height of 3.8 m prior to processing.

Interpretation

In this licence:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this licence:

  (i) if dated, refers to that particular version; and

  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1:Infrastructure and equipment requirements

	Infrastructure and equipment	Operational requirement
1.	Warehouse	• Concrete floor to be free of leaks and defects. • Baghouse filters to be maintained as per manufacturer's specifications. • 6 m clearance to be maintained externally around the building. • 1 m clearance to be maintained internally within the building along paths of travel to exits and firefighting equipment.
2.	1 x Eldan Tyre Recycling Plant (see Figure 3)	Eldan tyre recycling plant as depicted in Schedule 1, Figure 3, including the following key components; ○ One tyre feeder; ○ One chopper (primary shredder); ○ Two rasper units (secondary shredders); ○ Two granulator units; ○ Two classifier units; ○ Three airslide blower units; ○ One cracker mill; ○ One aspirator; ○ One flex screener; and ○ One disc screener. • To be operated within the warehouse as per manufacturer's specifications. • Maintained as per manufacturer's specifications.
3.	Fire suppression system (see Figure 4)	• To be operated within the external yard area and the warehouse. • Maintained as per manufacturer's specifications.
4.	External yard area (see Figure 5)	• Bitumen yard to be free of leaks and defects. • Subsurface drainage system is to be maintained free of debris and free of leaks and defects. • Spill kits are to be restocked and maintained as necessary. • Adequate spill management practices are to be conducted on an as-needs basis. • Signage at the front of the premises is to be maintained with up to date information for first responders. • Site access points are to be kept clear and maintained to ensure adequate access by emergency response vehicles.

	Infrastructure and equipment	Operational requirement
5.	Atlan Spillceptor firewater filtration system (see Figure 6)	• Maintained as per manufacturer's specifications to achieve a filtration rate of 5 mg/L or less of hydrocarbons.
6.	Tyre storage bunkers	• Only tyres, conveyor belts, rubber tracks and/or cut rubber pieces to be stored within the bunkers • Tyre bunker walls are to be maintained to ensure compliance with the fire resistance levels.

2. The licence holder must only accept onto the premises waste of a waste type, which does not exceed the corresponding rate at which waste is received, and which meets the corresponding acceptance specification set out in Table 2.

Table 2:Types of waste authorised to be accepted onto the premises

Waste type	Rate at which waste is received	Acceptance specification
Inert Waste Type 2 (Tyres)	23,529 tyres at any one time	Whole, unburnt passenger, truck, solid and Off the Road (OTR) tyres.
Cut rubber pieces	Combined total of 12,000 tonnes per annum	Cut rubber pieces originating from the Wedgefield premises being constructed under works approval W6821/2023/1.
Conveyor belts and rubber tracks		Unburnt, reeled and unreeled conveyor belts and rubber tracks.
Used lead acid batteries (ULABs)	78 tonnes per annum	Accepted for storage only, prior to transportation to a licensed premises for disposal or recycling.
Used oil filters	26 tonnes per annum	

3. The licence holder must ensure that the waste types specified in Table 3 are only subjected to the corresponding process(es), subject to the corresponding process limits and/or specifications.

Table 3: Waste processing

Waste type	Process	Process specification
Inert Waste Type 2 (Tyres); conveyor belts; rubber tracks; and rubber pieces	Receipt, handling, shredding and storage	• Tyre shredding/processing to occur within the warehouse. • Tyre, unreeled conveyor belt, rubber track and rubber pieces within bunkers must not exceed: (a) 2.7 metres in height; (b) 50 tonnes in weight; and (c) 240 m^2 in area. • Conveyor belts on reels must be stored within bunkers identified as B and D in Schedule 1, Figure 2, and storage height must not exceed 3.8 metres. • Only 16m^2 or 200 tyres on rim are to be stored in the warehouse's "rim removal area" (as shown in Schedule

Waste type	Process	Process specification
		1, Figure 2) at any one time. • Tyres, conveyor belts, rubber tracks and rubber pieces must be stored within the bunkers. • Open-frame pallet racks are not to exceed 7 m in height. • Reprocessed rubber crumb and granular product is to be discharged from the processing plant directly into 1 tonne bulker bags and stored in pallet racking within the warehouse, prior to off-site dispatch. • Reprocessed rubber shred and chip for the purpose of tyre derived fuel product is to be discharged into loading bays within the warehouse, prior to loose loading into shipping containers for storage outside in the yard, prior to off-site transportation.
Used lead acid batteries (ULABs)	Receipt, handling and storage prior to transport off site	• No more than 3 tonnes of batteries stored at any one time. • Stored at a designated ULAB storage area, within the warehouse. • Stored upright within prefabricated, self-bunded Battery Rescue ULAB boxes, with a maximum of four layers of ULAB's per battery box. • Each pallet to be clipped closed prior to transportation offsite.
Used oil filters	Receipt, handling and storage prior to transport off site	• Stored at a designated oil filter storage area, within the warehouse. • Stored within sealed, bunded containers.

Emissions and discharges

4. The licence holder must ensure that no waste is burnt on the premises.

5. The licence holder must immediately notify the CEO of:

(a) any fire on the premises; and/or

(b) any accident, malfunction, or emergency which results or could result in the discharge of fire-fighting wash water or other wastes from the premises.

6. The licence holder must take all reasonable and practicable measures to prevent stormwater run-off becoming contaminated by the activities and operations undertaken at the premises.

7. The licence holder must immediately recover, or remove and dispose of, spills of fuel, oil or other hydrocarbons, lead or sulphuric acid, whether inside or outside an engineered containment system.

8. The licence holder must ensure that all material used for the recovery, removal, and/or disposal of spills is stored in an impermeable container prior to disposal at an appropriately authorised facility.

Emission points and limits during operations

9. The licence holder must ensure that the emissions specified in Table 4 are discharged only from the corresponding discharge points and only at the corresponding discharge locations.

Table 4: Authorised discharge points

Emission	Discharge point	Discharge point height	Discharge point location
Particulate matter	Stack S1	Minimum of 5.2 m	As shown in Figure 6
	Stack S2	Minimum of 5.2 m	As shown in Figure 6
Filtered firewater and/or stormwater	Exit pipeline from the Atlan Spillceptor	N/A	As shown in Figure 5

10. The licence holder must ensure that the emissions from the discharge points listed in Table 5 do not exceed the corresponding limits when monitoring in accordance with condition 12 and condition 13.

Table 5: Emission and discharge limits

Discharge point	Parameter	Limit
Stack S1	Particulate matter	< 5.0 mg/m^3
Stack S2		
Exit pipeline from the Atlan Spillceptor	Total Recoverable Hydrocarbons	≤ 5.0 mg/L

Monitoring

11. The licence holder must ensure that monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters.

12. The licence holder must monitor emissions to air in accordance with the requirements specified in Table 6.

Table 6: Monitoring of emissions to air

Monitoring location	Parameter	Reporting unit [1]	Frequency	Averaging period	Method
Stack S1	PM_{10}	mg/m^3 g/sec	Quarterly	60 minutes	US EPA Method 201A
	TSP	-			US EPA Method 5
	Flow rate	m^3/sec			US EPA Method 2

Monitoring location	Parameter	Reporting unit [1]	Frequency	Averaging period	Method
Stack S2	PM_{10}	mg/m^3 g/sec	Quarterly	60 minutes	US EPA Method 201A
	TSP	-			US EPA Method 5
	Flow rate	m^3/sec			US EPA Method 2

Note 1: All units are referenced to STP dry.

13. The licence holder must monitor discharges to land in accordance with the requirements specified in Table 7.

Table 7: Monitoring of discharges to land

Monitoring location	Parameter	Reporting unit	Frequency	Averaging period
Exit pipeline from the Atlan Spillceptor	Total Recoverable Hydrocarbons	mg/L	Once per annum [1]	Spot sample
	Total suspended solids			

Note 1: Sampling to be conducted within 24 hours of discharges commencing from the exit pipeline

14. The licence holder must record the total amount of waste accepted onto and removed from the premises, in accordance with the requirements specified in Table 8.

Table 8: Waste inputs and outputs at the premises

Waste type	Unit	Time period
Inert Waste Type 1 (Tyres)	Individual tyre	Each load arriving at the premises
Rubber pieces	Tonnes	
Conveyor belts and rubber tracks	Tonnes	
ULABs	Tonnes	
Oil filters	Tonnes	
Rubber shred, chip, crumb and granular product	Tonnes	Each load leaving the premises
Waste steel	Tonnes	
ULABs	Tonnes	
Oil filters	Tonnes	

Records and reporting

Records

15. The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.

16. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

(a) the calculation of fees payable in respect of this licence;

(b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;

(c) monitoring programmes undertaken in accordance with conditions 12,13 and 14 of this licence; and

(d) complaints received under condition 15 of this licence.

17. The books specified under condition 16 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the licence holder for the duration of the licence; and

(d) be available to be produced to an inspector or the CEO as required.

Reporting

18. The licence holder must:

(a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period, and

(b) prepare and submit to the CEO an Annual Audit Compliance Report in the approved form by 30 August each year.

19. The licence holder must:

(a) prepare an Environmental Report that provides information in accordance with Table 9 for the preceding annual period, and

(b) submit that Environmental Report to the CEO by 30 August each year.

Table 9:Environmental reporting requirements

Condition	Requirement
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken
5, 7 and 8	Details of any fires or spills at the premises over the previous year, measures taken to put out the fire or contain the spill, and actions taken to store and remove materials used.
12	Monitoring data of discharge to air
13	Monitoring date of discharge to land
14	Summary of inputs and outputs data
15	Complaints summary
18	Summary of non-compliances reported during the annual period

Definitions

In this licence, the terms in Table 10 have the meanings defined.

Table 10: Definitions

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
department; DWER	means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
firewater	means water that, in the event of a fire, has been used to extinguish a fire, and all materials and combusting products dissolved or suspended within such water, and includes other fire suppressant substances such as foams.
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been

Term	Definition
	granted.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map(s) (Figure 1 and 2) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
quarterly	means a three-month period commencing from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December.
US EPA Method 2	means the United States Environmental Protection Agency *Method 2 Determination of Gas Velocity and Volumetric Flow Rate (Type S Pitol Tube).*
US EPA Method 5	means the United States Environmental Protection Agency *Method 5 Determination of Particulate Matter Emissions from Stationary sources.*
US EPA Method 201A	means the United States Environmental Protection Agency *Method 5 Determination of PM_{10} and $PM_{2.5}$ Emissions from Stationary Sources (Constant Sampling Rate Procedure).*
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

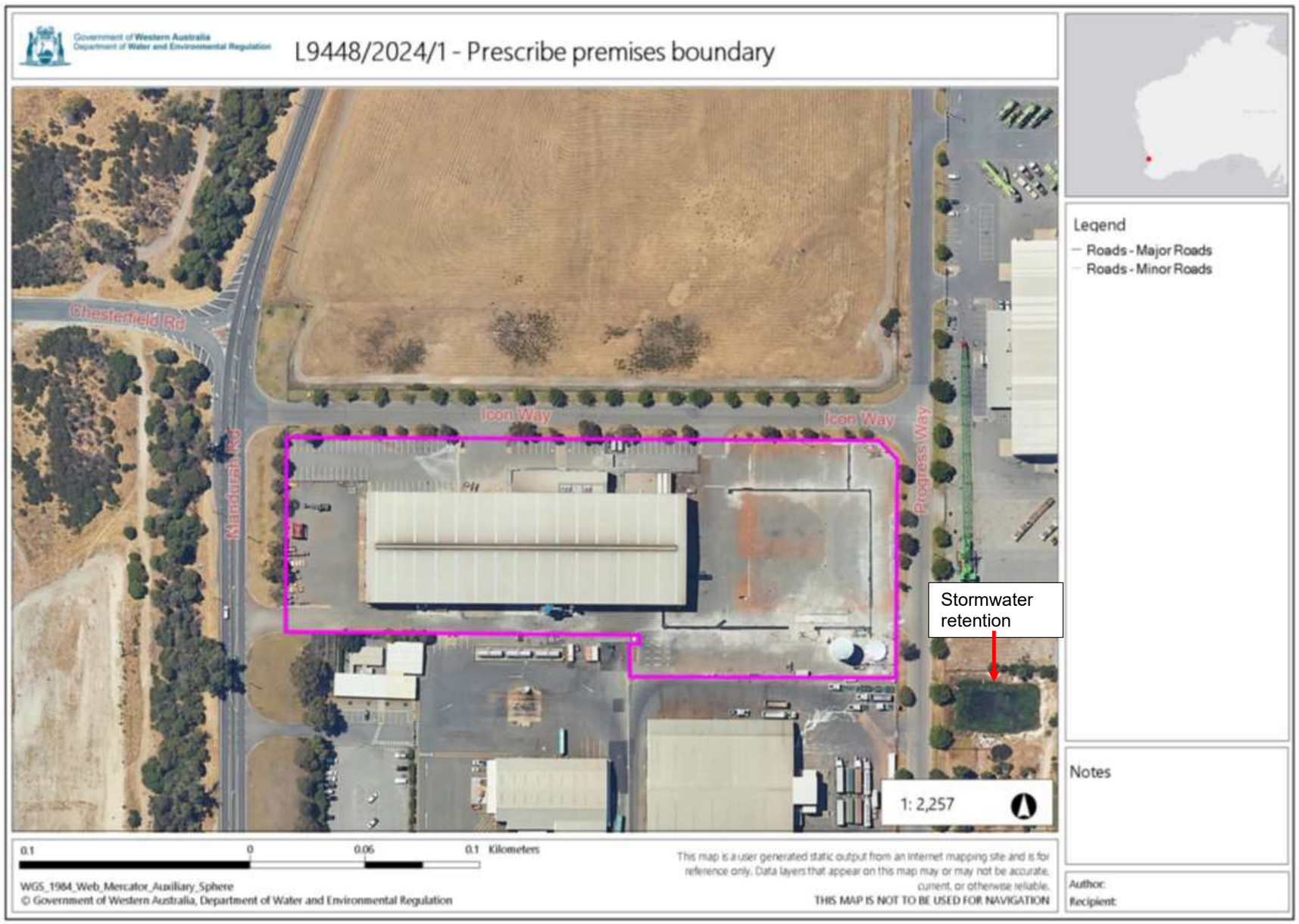


Figure 1: Map of the boundary of the prescribed premises and location of the stormwater retention basin

Premises layout

The premises layout is shown in the map below (Figure 2).

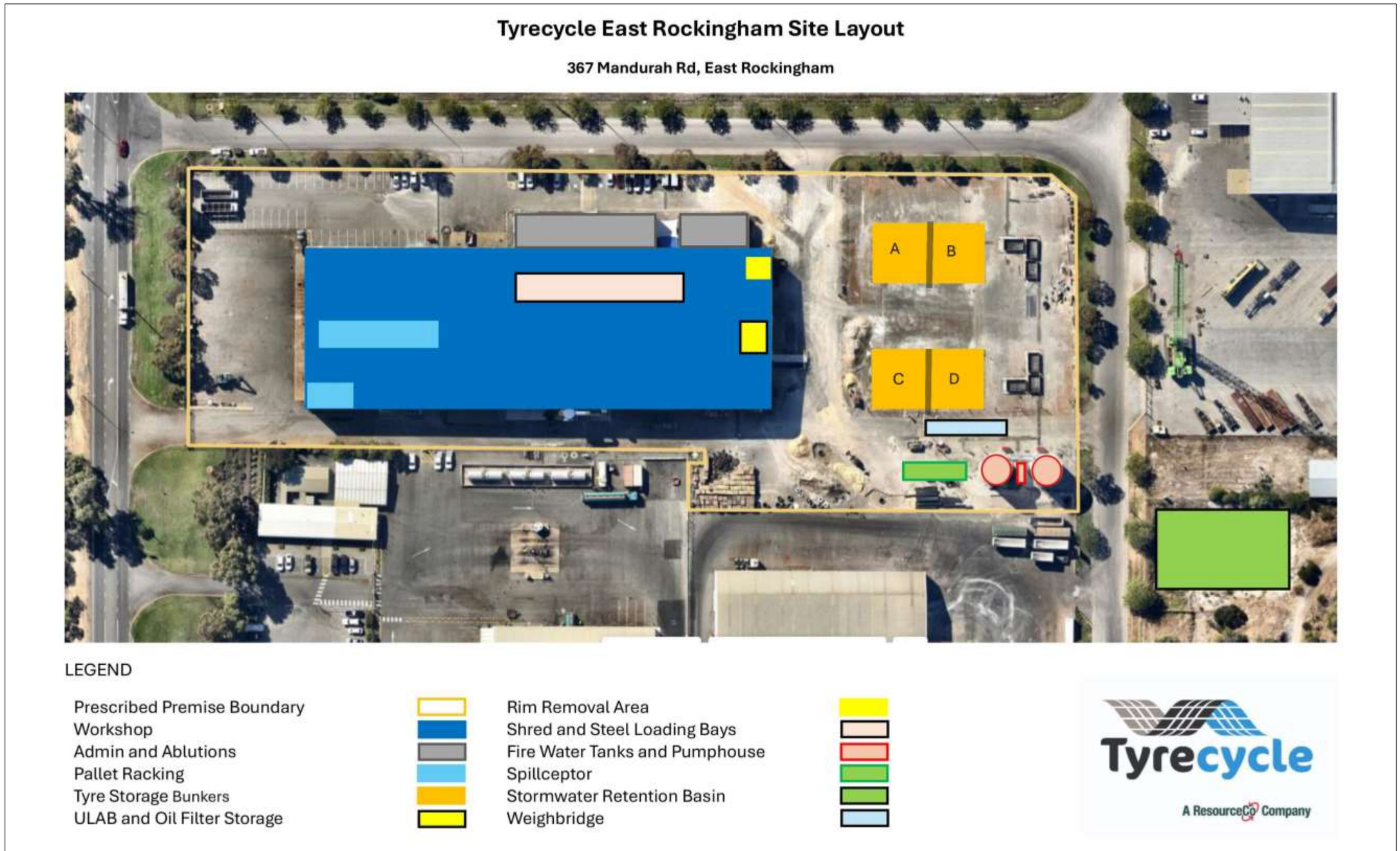
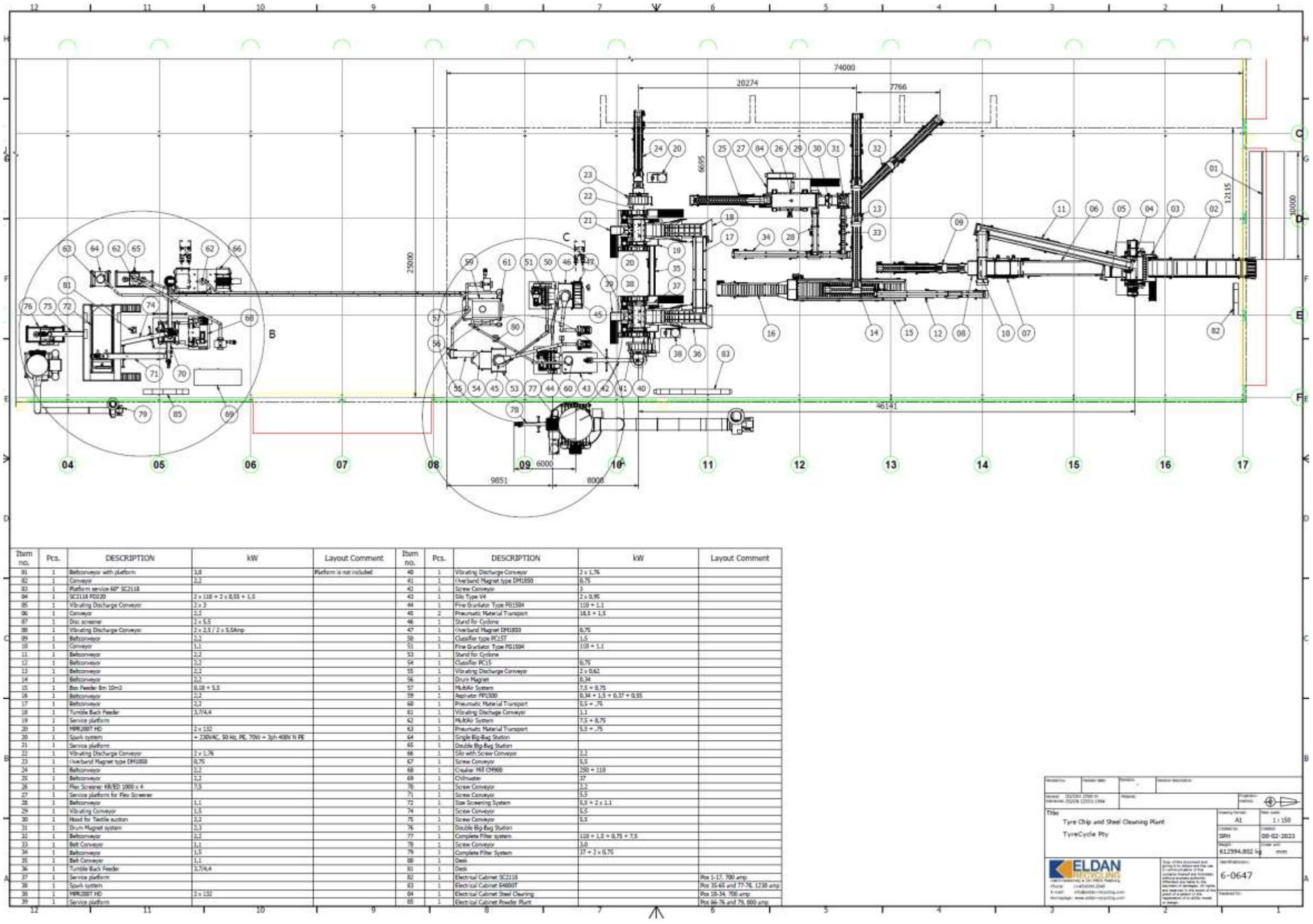


Figure 2: Premises layout

Eldan Tyre Recycling Plant Layout

The Eldan tyre recycling plant is shown in the map below (Figure 3).



Item no.	Pcs.	DESCRIPTION	kW	Layout Comment
01	1	Beltconveyor with platform	3,0	Platform is not included
02	1	Conveyor	2,2	
03	1	Platform service 60° SC2118		
04	1	SC2118 FD220	2 x 110 + 2 x 0,55 + 1,1	
05	1	Vibrating Discharge Conveyor	2 x 3	
06	1	Conveyor	3,2	
07	1	Disc screener	2 x 5,5	
08	1	Vibrating Discharge Conveyor	2 x 2,5 / 2 x 5,0Amp	
09	1	Beltconveyor	2,2	
10	1	Conveyor	1,1	
11	1	Beltconveyor	2,2	
12	1	Beltconveyor	2,2	
13	1	Beltconveyor	2,2	
14	1	Beltconveyor	2,2	
15	1	Box Feeder Bm 10m3	0,18 + 5,5	
16	1	Beltconveyor	2,2	
17	1	Beltconveyor	2,2	
18	1	Tumble Buck Feeder	3,7/4,4	
19	1	Service platform		
20	1	MPR200T HD	2 x 132	
21	1	Spark system	+ 230VAC, 50 Hz, PE, 70W + 3ph 400V N PE	
22	1	Vibrating Discharge Conveyor	2 x 1,76	
23	1	Overband Magnet type DM1050	0,75	
24	1	Beltconveyor	2,2	
25	1	Beltconveyor	2,2	
26	1	Flex Screener RR/ED 1000 x 4	7,5	
27	1	Service platform for Flex Screener		
28	1	Beltconveyor	1,1	
29	1	Vibrating Conveyor	1,5	
30	1	Hood for Textile suction	2,2	
31	1	Drum Magnet system	2,2	
32	1	Beltconveyor	2,2	
33	1	Belt Conveyor	1,1	
34	1	Beltconveyor	1,5	
35	1	Belt Conveyor	1,1	
36	1	Tumble Buck Feeder	3,7/4,4	
37	1	Service platform		
38	1	Spark system		
38	1	MPR200T HD	2 x 132	
39	1	Service platform		

Item no.	Pcs.	DESCRIPTION	kW	Layout Comment
40	1	Vibrating Discharge Conveyor	2 x 1,76	
41	1	Overband Magnet type DM1850	0,75	
42	1	Screw Conveyor	3	
43	1	Silo Type V4	2 x 0,95	
44	1	Fine Granulator Type FG150H	110 + 1,1	
45	2	Pneumatic Material Transport	18,5 + 1,5	
46	1	Stand for Cyclone		
47	1	Overband Magnet DM1850	0,75	
50	1	Classifier type PC15T	1,5	
51	1	Fine Granulator Type FG110H	110 + 1,1	
53	1	Stand for Cyclone		
54	1	Classifier PC15	0,75	
55	1	Vibrating Discharge Conveyor	2 x 0,62	
56	1	Drum Magnet	0,34	
57	1	MultiAir System	7,5 + 0,75	
59	1	Aspirator FP1500	0,34 + 1,5 + 0,37 + 0,55	
60	1	Pneumatic Material Transport	5,5 + ,75	
61	1	Vibrating Discharge Conveyor	1,1	
62	1	MultiAir System	7,5 + 0,75	
63	1	Pneumatic Material Transport	5,5 + ,75	
64	1	Single Big-Bag Station		
65	1	Double Big-Bag Station		
66	1	Silo with Screw Conveyor	2,2	
67	1	Screw Conveyor	5,5	
68	1	Crusher Mill CM900	250 + 110	
69	1	Chillwater	37	
70	1	Screw Conveyor	2,2	
71	1	Screw Conveyor	5,5	
72	1	Size Screening System	5,5 + 2 x 1,1	
74	1	Screw Conveyor	5,5	
75	1	Screw Conveyor	5,5	
76	1	Double Big-Bag Station		
77	1	Complete Filter system	110 + 1,5 + 0,75 + 7,5	
78	1	Screw Conveyor	3,0	
79	1	Complete Filter System	37 + 2 x 0,75	
80	1	Desk		
81	1	Desk		
82	1	Electrical Cabinet SC2118		Pos 1-17, 700 amp
83	1	Electrical Cabinet E4000T		Pos 35-65 and 77-79, 1230 amp
84	1	Electrical Cabinet Steel Cleaning		Pos 18-34, 700 amp
85	1	Electrical Cabinet Powder Plant		Pos 66-76 and 79, 600 amp

Figure 3: Eldan tyre recycling plant Layout

Premises fire suppression system

The premises fire suppression system is shown in the plan below (Figure 4).

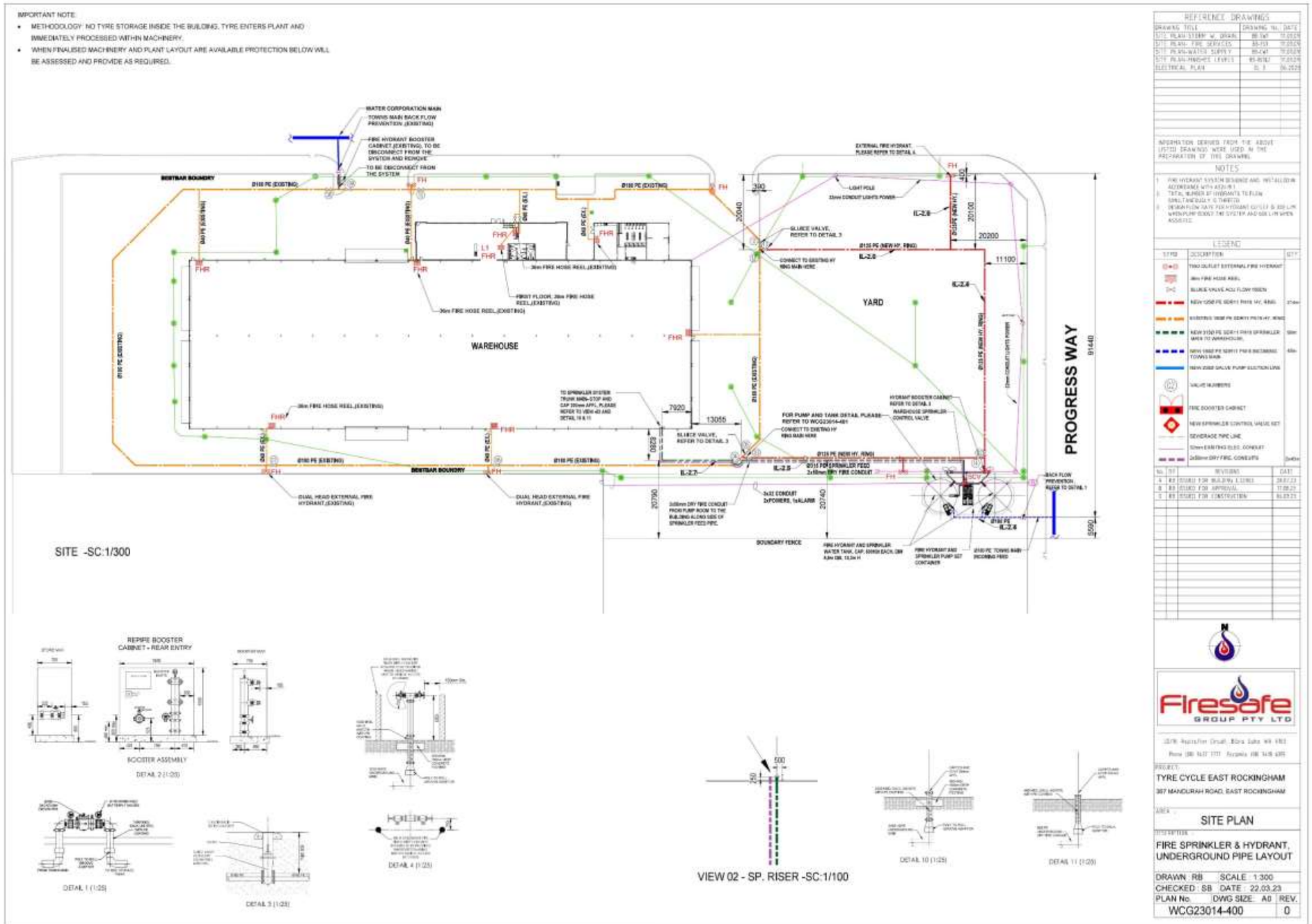


Figure 4: Premises fire suppression system

Premises firewater containment and drainage plan

The premises firewater containment and drainage plan is shown in the map below (Figure 5).

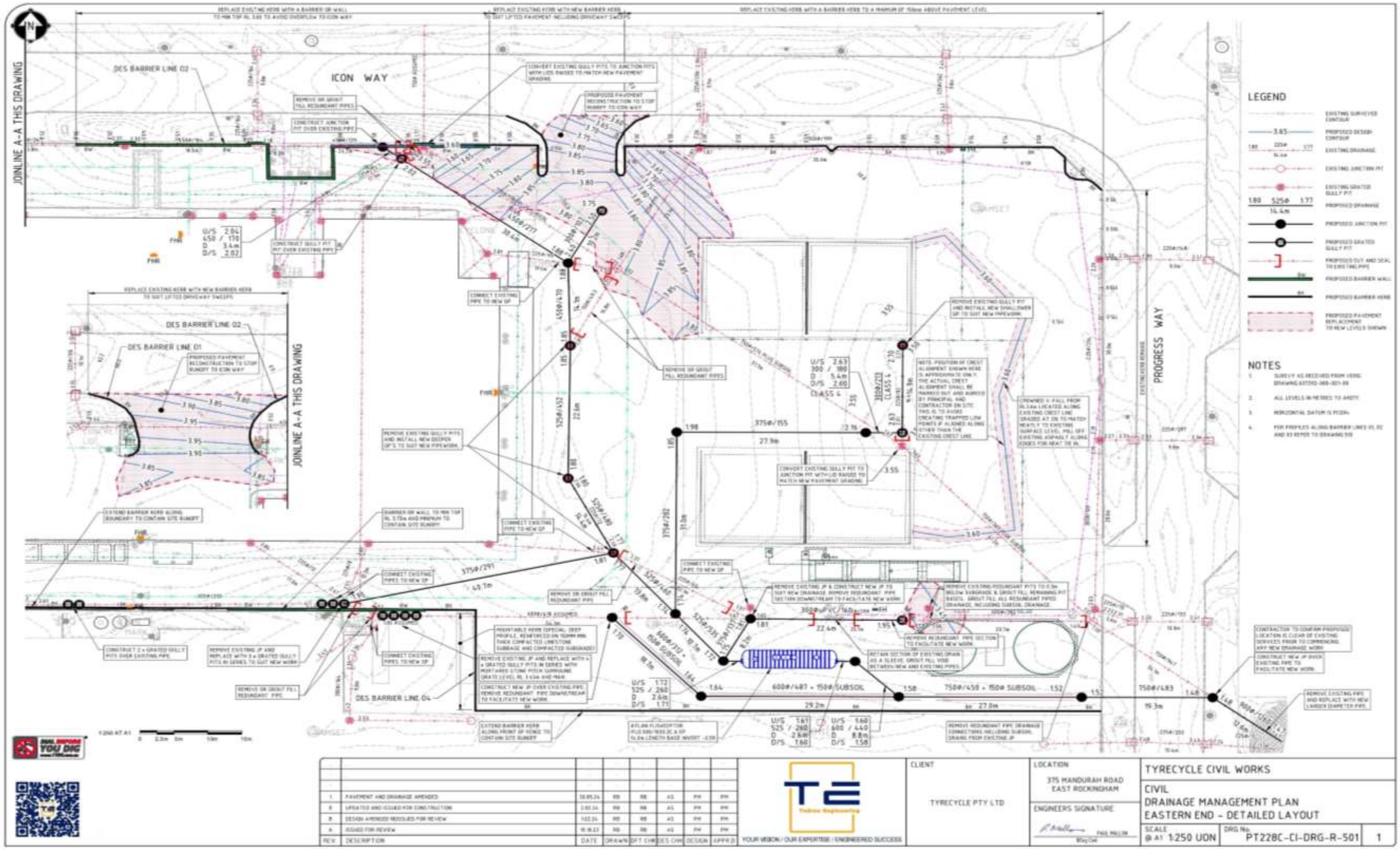


Figure 5: Premises firewater containment and drainage plan

Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 11.

Table 11: Premises boundary coordinates (GDA2020)

	Easting	Northing	Zone
1.	385077	6429586.5	50
2.	385326.2	6429588.0	50
3.	385334.1	6429580.3	50
4.	385334.5	6429490.8	50
5.	385222.6	6429489.9	50
6.	385222.3	6429503.3	50
7.	385226.5	6429503.4	50
8.	385226.5	6429507.1	50
9.	385077.4	6429506.7	50

Schedule 3: Monitoring locations

Warehouse stack monitoring locations

The monitoring locations of the warehouse stacks are shown in the map below (Figure 6).

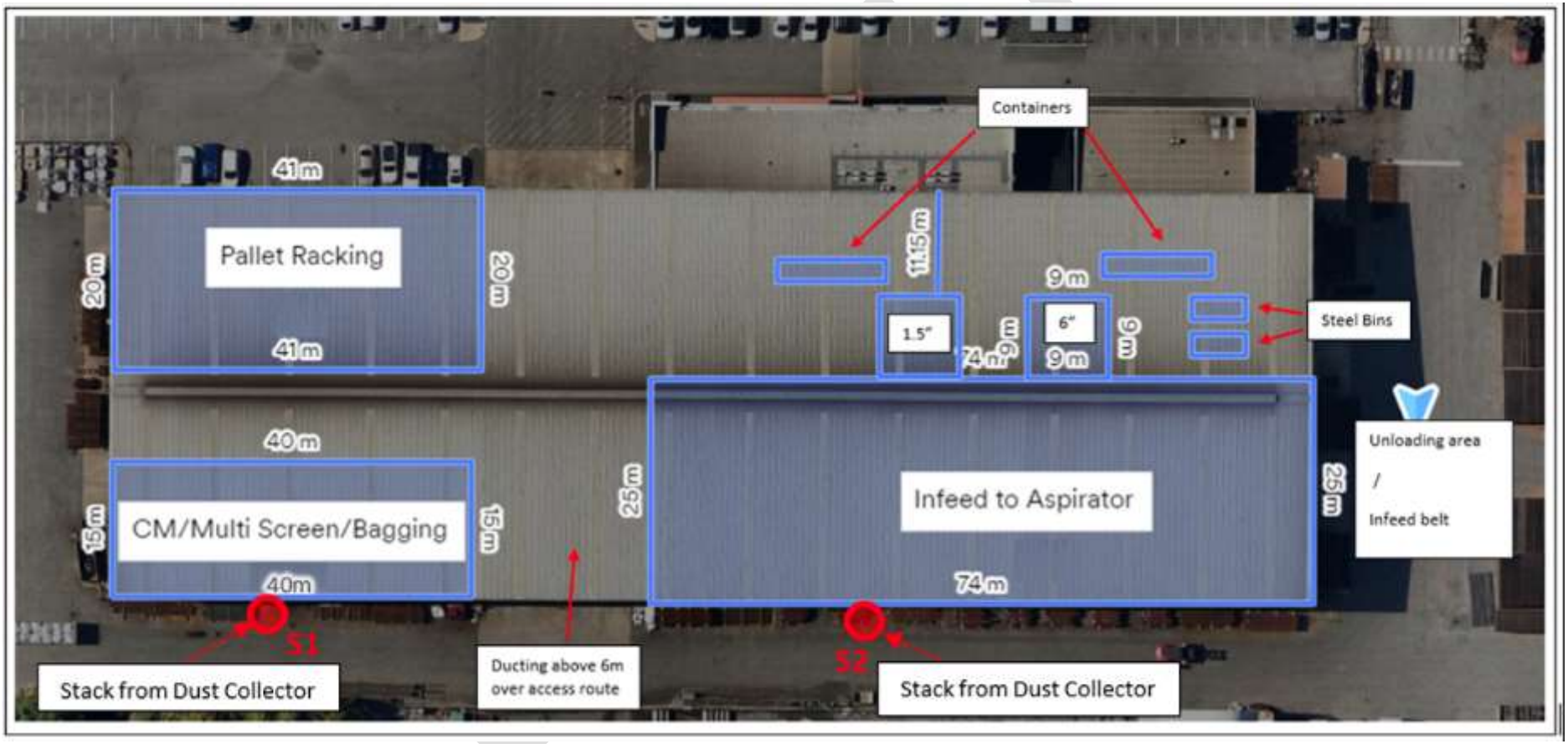


Figure 6: Monitoring locations of warehouse stacks