



**FOYLE MEATS  
MELTON RD  
SIX HILLS  
MELTON MOWBRAY  
LE14 3PR**

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Environmental Permit Application

Site Operations: Manufacturing & Infrastructure

Document Ref: Attachment B.3.13.2

**SITE OPERATIONS: MANUFACTURING & INFRASTRUCTURE**  
**FOYLE MEATS, SIX HILLS, MELTON MOWBRAY, UK**

## **Site Overview**

Foyle Food Group operates a slaughtering facility on a 24,000 M<sup>2</sup> site located at Six Hills, Melton Mowbray, LE14 3PD, United Kingdom. Activities at the site include the slaughter of cattle and the dressing, chilling and quartering of beef carcasses, the harvesting of offal, cod fat and the packing of beef offal and cod fat into vacuum pouches and lined cardboard boxes.

The northern and eastern site boundaries are bounded by green-field, which contains an operational farmstead. The northeast of the site is bounded by a green-field, beyond which is the Six Hills Leisure facility and golf course. At its closest point, this golf course comes within c.125m of the site boundary.

The west boundary is bounded by two industrial units and associated carpark, beyond which is the A46 road. The south of the site is mostly bounded by a local access roadway into the adjacent industrial units and partially bounded by the B676 road.

The closest residential properties to the site are located on the A46 Road, c.220m south-west of the site boundary.

Prior to being acquired by the Foyle Food Group, the site was a privately owned beef slaughtering facility.

The company's customer base is split between commercial and retail. The site produces primal frozen quarters which are dispatched to other Foyle Foods site for further processing. Boning is not carried out at the site.

The site employs approximately 77 staff, including office and admin personnel.

The actual tonnage of finished product produced in 2023 was 14,809.90 tonnes, which is an average of 284.81 tonnes per week.

The plant operates production shifts on a five-day basis between 07:00-15:00, while cleaning occurs during evening & night-time hours. Weekend work may occur at peak production times and the engineering team provide 24/7 cover.

No effluent treatment occurs at the site. Effluent is stored in the Effluent Storage Sump and the Truck-Wash Sump, which are emptied daily by road tanker.

All water is sourced from a main supply, while the site contains a single hot water boiler.

All waste is segregated on-site for removal to offsite waste facilities as appropriate.

**Appendix A:** details the factory process flow from cattle inwards to final product despatch.

**Appendix B:** detailed the HACCP flow diagrams for individual areas, including the Lairage/Intake, Cattle Slaughter, Loading Bay, Red Offal and Green Offal.

**Appendix C:** is an illustration of the main site infrastructure.

**Appendix D:** contains a photo log of site infrastructure.

## **1.0 MANUFACTURING**

All production is carried out internally. This consists of the following processing techniques and unit operations as listed in the Best Available Techniques in the Food, Drink and Milk Industries (August 2006 & January 2017):

- Materials handling and storage (A.1),
- Washing (A.4),
- Cutting, slicing, chopping, mincing, pulping and pressing (B.1),
- Cooling, chilling and cold stabilisation (G.1),
- Packing and filling (H.1),
- Cleaning and disinfection (U.1),
- Energy generation and consumption (U.2),
- Water use (U.3),
- Vacuum generation (U.4),
- Refrigeration (U.5),
- Compressed air generation (U.6).

A process flow diagram showing production flow is detailed in Appendix A.

The manufacturing process is split into the following:

### **1.1 Intake/Lairage**

Cattle scheduled for slaughter are delivered to the site by road. On arrival, the passport and FCI documentation for the animals is checked; only those animals having the necessary documentation are accepted. Documents may also include the animals' organic certification and T.B. restriction licence. The animals are then placed in livestock holding pens in the lairage. After unloading, the cattle delivery vehicles are taken to the lorry wash area for wash down before leaving the site.

The lairage includes a slatted tank for the collection of slurry, and the area is washed down daily to prevent the build-up of organic material on concrete surfaces. The site procurement procedure ensures that the number of breaks in slaughtering processing would be minimised, by ensuring that there is a constant supply of animals to the slaughter line.

### **1.2 Slaughter Lines**

Cattle are stunned in a purpose designed stun box using a captive bolt gun. The animals are then hung by their back legs on an overhead rail system. The cattle then have the main arteries in their throats cut by trained slaughter operatives and under-go a 30-second uninterrupted bleed. The slaughter line normally only operates on weekdays (i.e. Monday to Friday), however, slaughtering may be undertaken at weekends for reasons such as casualty animals and demand.

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### Blood

Blood from slaughtered animals is collected by means of a dedicated collection system. The blood trough is designed to facilitate 'squeegeeing' of partially congealed blood into the blood collection system. There is no additional bleed points on the slaughter line.

Blood is then transferred from the blood trough to the blood storage tank, where it is held until it is removed off site by tanker. Citric acid is added to the blood removal system and blood is chilled to aid coagulation of the blood so that it can be used for plasma removal.

### Horn and Hoof Removal

Horns and hooves are manually removed from cattle carcass using hydraulically operated cropping shears and are sent to Specified Risk Material (SRM) skips for staining with blue dye.

### Hide Removal

After bleeding, cattle have the mask (eyebrows and muzzle) and ears manually removed. After removal, the mask, which is classed as SRM, is stored in dedicated storage areas and stained with blue dye before disposal.

Hides are removed from cattle by means of an automated hide puller system and stored pending removal off-site for further processing or as CAT3 waste.

### Head Removal

The head is manually removed from cattle carcass using hydraulically operated cropping shears and is placed on the offal line.

### Trimming and Evisceration

Green offal (lungs, trachea and paunches) are collected and taken for further processing at off-site facilities.

The spleen, intestines and pancreas are classed as SRM and are stained with blue dye and sent to the relevant storage trailer.

Gut (paunch) contents is also removed at this stage and stored for collection by a contractor for land-spreading.

The respiratory, pulmonary and digestive organs are then removed and the resulting offal is sent for disposal or further processing as required.

Red offal (heart, liver and kidneys) are removed and sent to the Offal processing area.

### Carcass Quartering

After the removal of offal, the cattle carcasses are split along the spine using purpose designed electric saws.

The spinal cords are then removed from the carcass using a vacuum suction system. The spinal cords are classed as SRM and are stained with blue dye and sent to the correct SRM trailer. Each side is cut, resulting in beef quarters.

Following quartering and the trimming of fat, tail, skirt and testicles, the beef is sent to the chillers.

### **1.3 Chilling**

The beef quarters are placed in chilled storage. Meat is kept in chilled storage, at between <40°C & <15°C before dispatch.

### **1.4 Offal Processing**

Further to being initially chilled, red offal is trimmed, vac-packed, labelled and weighed and sent to the chill for storage.

Contaminated offal is disposed of as either CAT1 or CAT3 waste, including the skull and tonsils.

Green offal is emptied, washed and inspected for Rumen Fluke, before being chilled and packed for further processing off-site.

This process can produce some waste packaging such as broken boxes, backs of labels, transit packaging for the packaging materials etc. and as these volumes are so small that they are treated as general waste.

### **1.5 Dispatch**

The fully chilled quarters are loaded onto refrigerated trailers in the loading bay. When the trailers are full, they are taken by contract haulier directly to sister sites for further processing (i.e. boning).

### **1.6 Cleaning**

Procedures ensure that residual material is removed from floors, water is used efficiently, and employees are trained in the handling and making up of working solutions and their applications.

All cleaning chemicals are kept within a secure Chemical Store.

## **2.0 INFRASTRUCTURE**

### **2.1 Buildings**

The site contains two primary individual structures.

The first is the Maintenance Workshop located in the rear yard area, which has a footprint of 80m<sup>2</sup>. This structure was extended to include a Packing Store, which has an additional footprint of 65m<sup>2</sup>. The primary construction material of this structures is corrugated steel sheeting affix to I-beam framework (see Figure 1)

The second is the main production building covers an approximate area of 2,360m<sup>2</sup> and contains a number of processing and storage area, including: admin & reception, canteen & welfare facilities, a Lairage, five chillers, loading bay & dispatch, slaughter line, processing area, red & green offal processing area.

The admin and reception are housed within a two-storey section, constructed of internal block work with external red-brick walls, double glazed uPVC windows and a corrugated steel sheeting roof, located to the front of the structure, which has a footprint of 75m<sup>2</sup> (see Figure 2).

The canteen & welfare facilities are housed within a singular single-storey section, contains a tiled roof, located to the front of the structure, which has a footprint of 185m<sup>2</sup> (see Figure 3).

The Lairage, which was added after the completion of the main structure, consists of I-beam framework, a corrugated sheeting roof and walls constructed of a combination of reinforced concrete and vertical wooden lats, and has a footprint of 495m<sup>2</sup> (see Figure 4).

The smallest section of the main production building is the Boiler House, which is also of a, internal block work with external red-brick wall and corrugated steel sheeting roof construction. The structure features a large galvanised steel roller-door and has a footprint of 37.5m<sup>2</sup> (see Figure 5).

The remaining 1,567.5m<sup>2</sup> makes up the main processing area of the facility listed above and is primarily of a I-beam framework and corrugated steel sheeting roof and walls, with lower wall sections of varying heights constructed of red-brick (see Figure 6).

On site structures makes up approximately 10.6% of the site.

### **2.2 External Yard**

The external area of the site can be divided into the following four areas:

- i. Clean Yard Area – 2,676m<sup>2</sup>

The clean yard area is comprised of an area of paving brick to the front of the site and an area of poured concrete to the west and rear of the main processing building, which includes the site dispatch bays (see Figures 7-8).

The Clean Yard Area makes up approximately 11.3% of the site.

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ii. Dirty Yard Area – 3,120m<sup>2</sup>

The dirty yard area, constructed of poured concrete, extends from the site entrance to the rear of the site encircling the Lairage, and contains the truck-wash, chemical store, air-compressor hut, blood tanks, animal by-product handling area, CAT waste storage trailers, Dolav storage and effluent storage sump (see Figures 9-14).

Effluent removal tankers, blood removal tankers and all cattle delivery trucks are instructed to stay within this area.

The eluent sump is located in an area of low elevation. Any overflow would be contained upon a concrete surface.

The Dirty Yard Area makes up approximately 13.2% of the site.

iii. Pours Hardstand – 6,777m<sup>2</sup>

This area is comprised of roll and compacted hardcore stone material. Within this area is the employee carpark, trailer storage, the waste compost, recycling storage and the Maintenance Workshop and Packing Store structures (see Figures 15-18).

Pours Hardstand makes up approximately 28.7% of the site and is the largest area of made-ground within the site boundary.

iv. Green Areas – 8,562m<sup>2</sup>

Within the site boundary there are two large green areas: one at the south-western site boundary with an area of 4,489m<sup>2</sup> and the second along the eastern site boundary with an area of 4,073m<sup>2</sup>.

Green Areas make up approximately 36.2% of the site.

## **2.4 Drainage**

All internal production and wash water is directed to the effluent sump located in the rear yard, which is emptied daily. Dirty yard surfacewater is directed to the effluent sump or the truck-wash sump via a network of underground pipes.

All rainwater from the main structures and clean yard surface-water discharges to the Kingston Brook stream via SW-1 discharge point via a network of underground pipes.

Surfacewater within the green areas and the pours hardstand would go directly to ground.

Foul water from on-site toilets and welfare facility is directed to a separate tank at the front of the site, which is isolated from the two underground drainage networks.

For more detail see: Attachment B.3.3 – Emissions to Surfacewater

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## **2.5 Chemical Store**

Chemicals are stored in multiples locations on the site. These include chemicals used for cleaning production equipment, general factory cleaning purposes, engineering and water treatment.

All cleaning chemicals are kept in secure store within the rear dirty yard area, upon suitable bunded structures, with limited access and all chemicals are kept closed when not in use.

Product information, Health & Safety Data and SDS data Sheets are available for all chemical products held on site.

No bulk effluent treatment chemicals are stored on-site.

For more detail see:

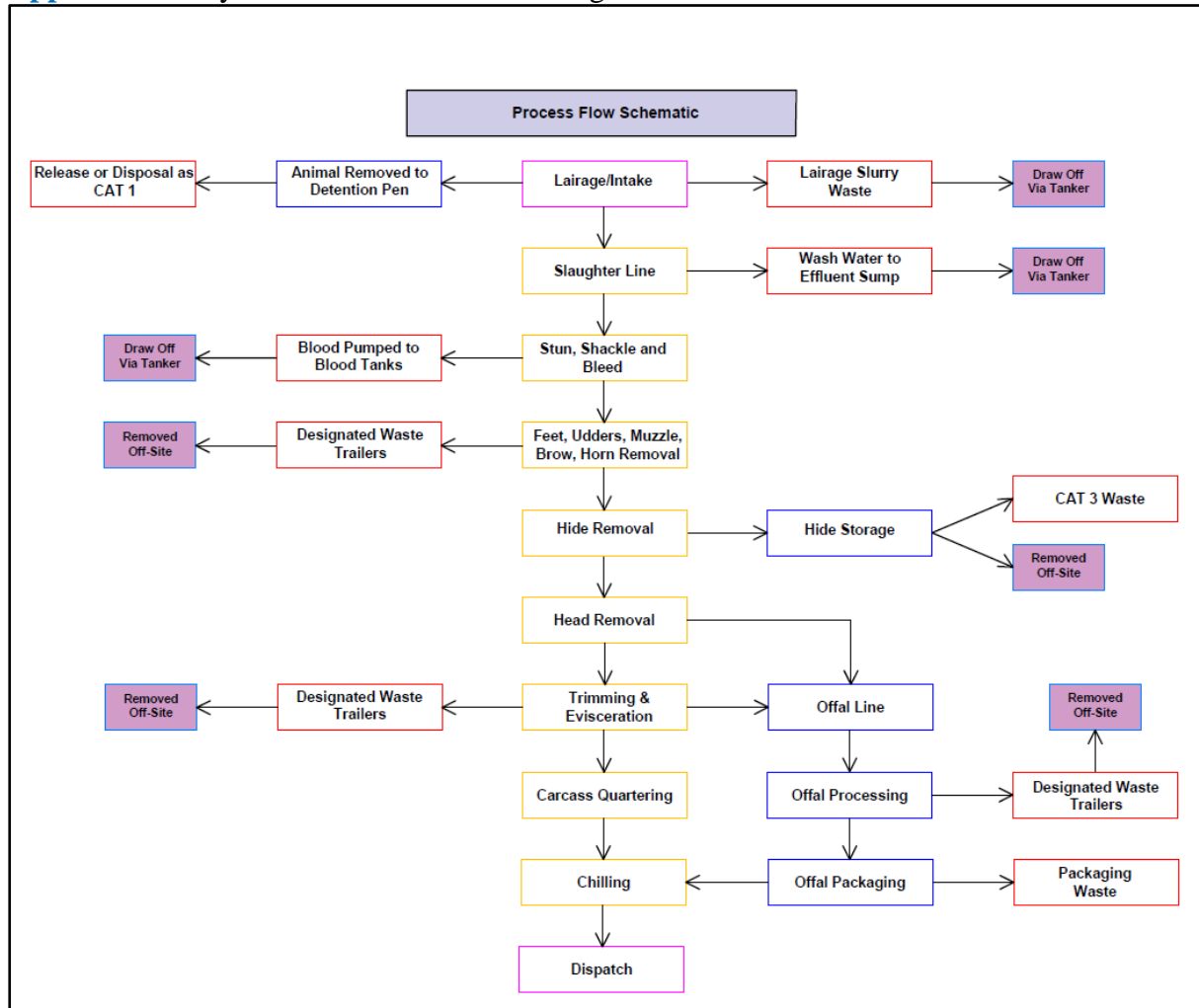
Attachment C.3 – Bund Integrity Assessment.

Attachment C.2.3.C – Baseline Report.



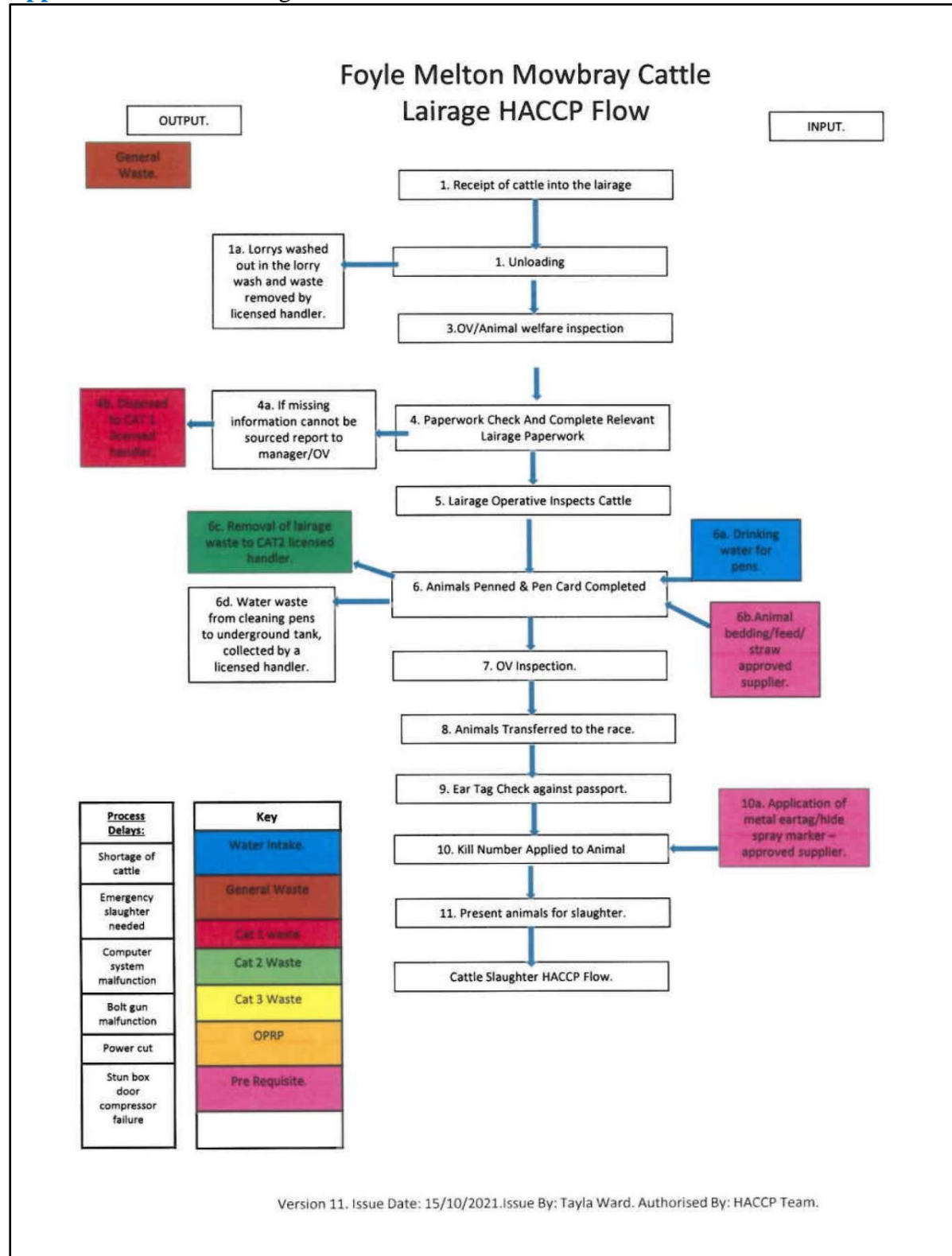
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**Appendix A: Foyle Meats –Process Flow Diagram**



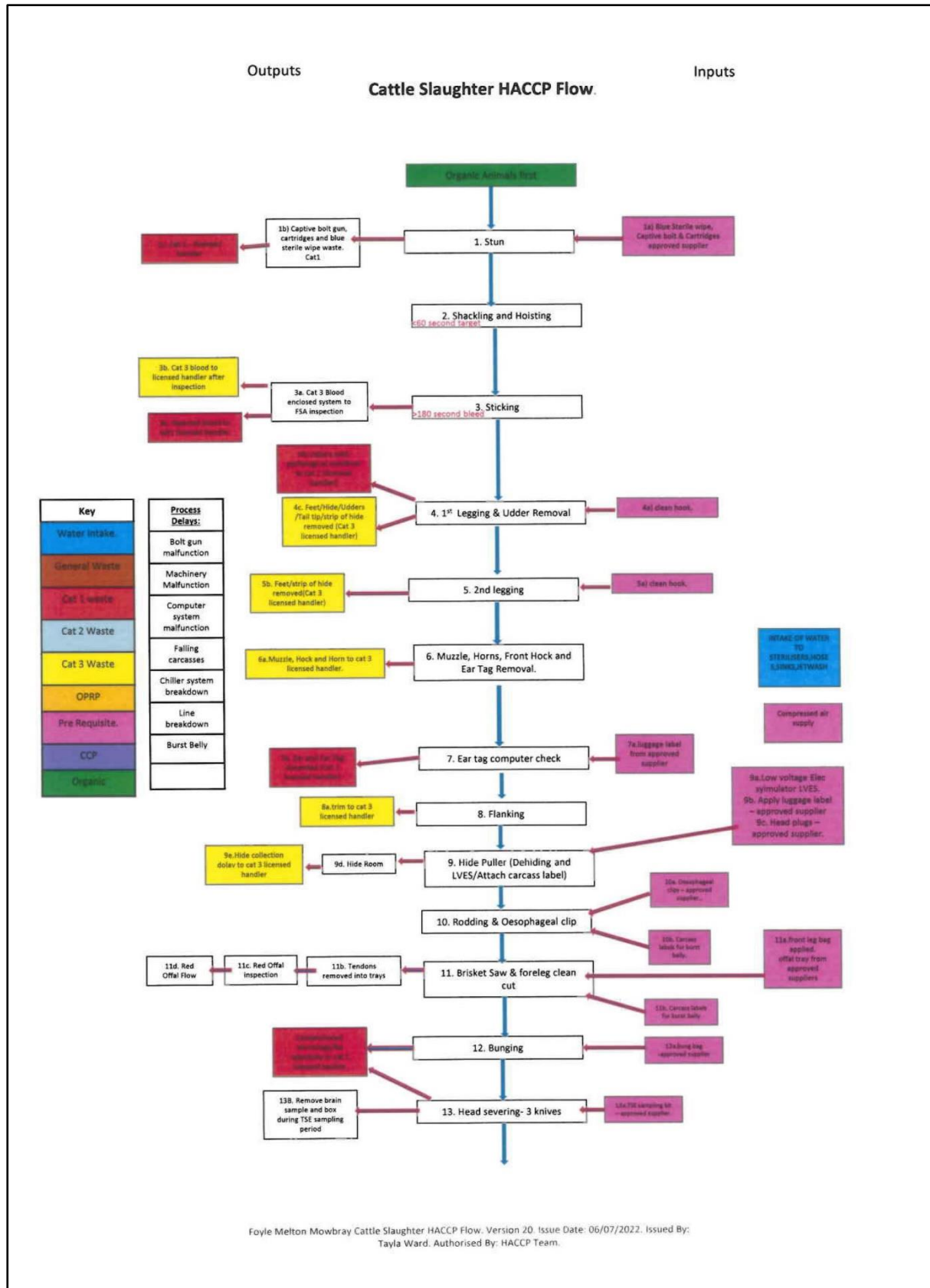
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**Appendix B: HACCP Diagrams**



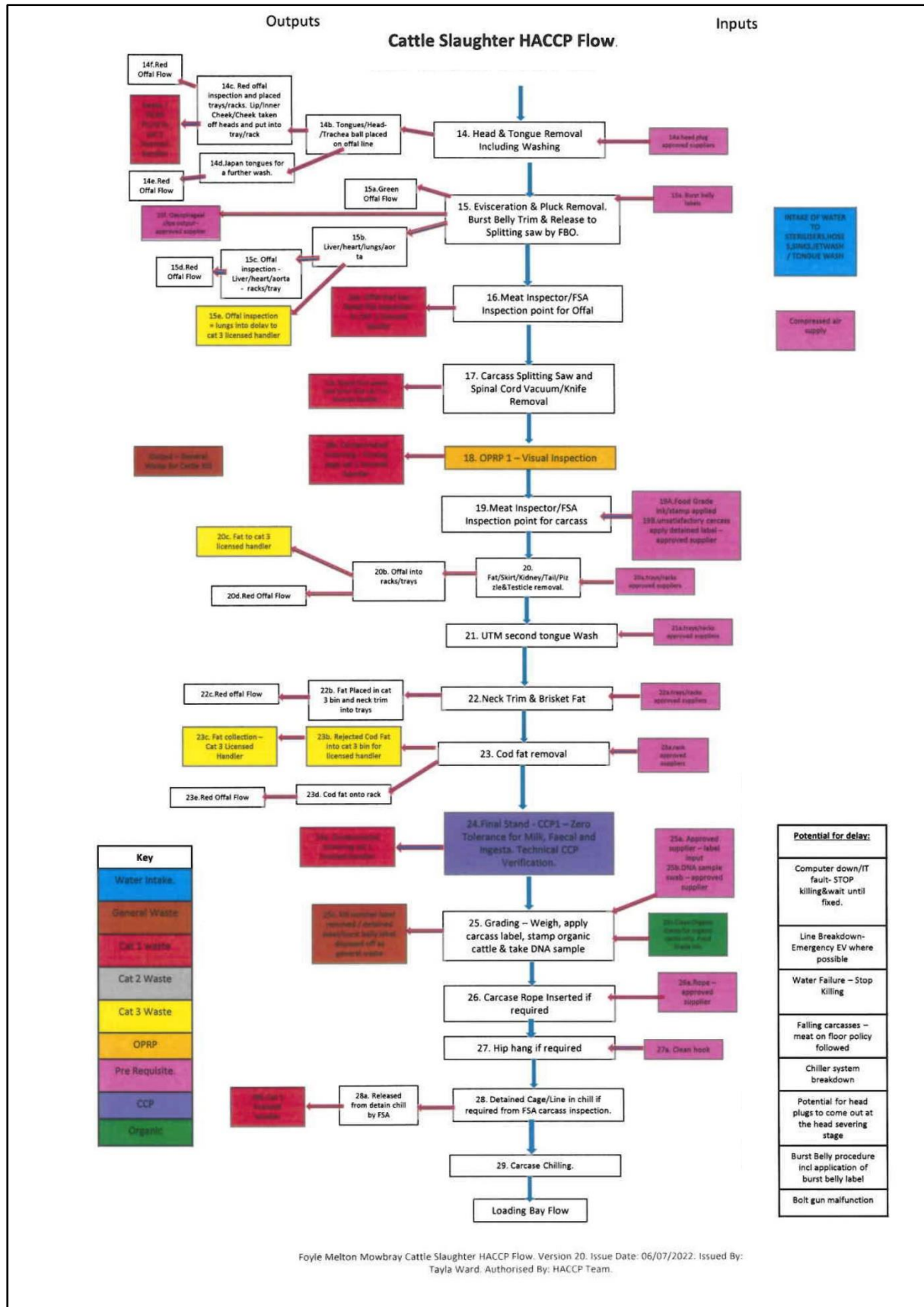
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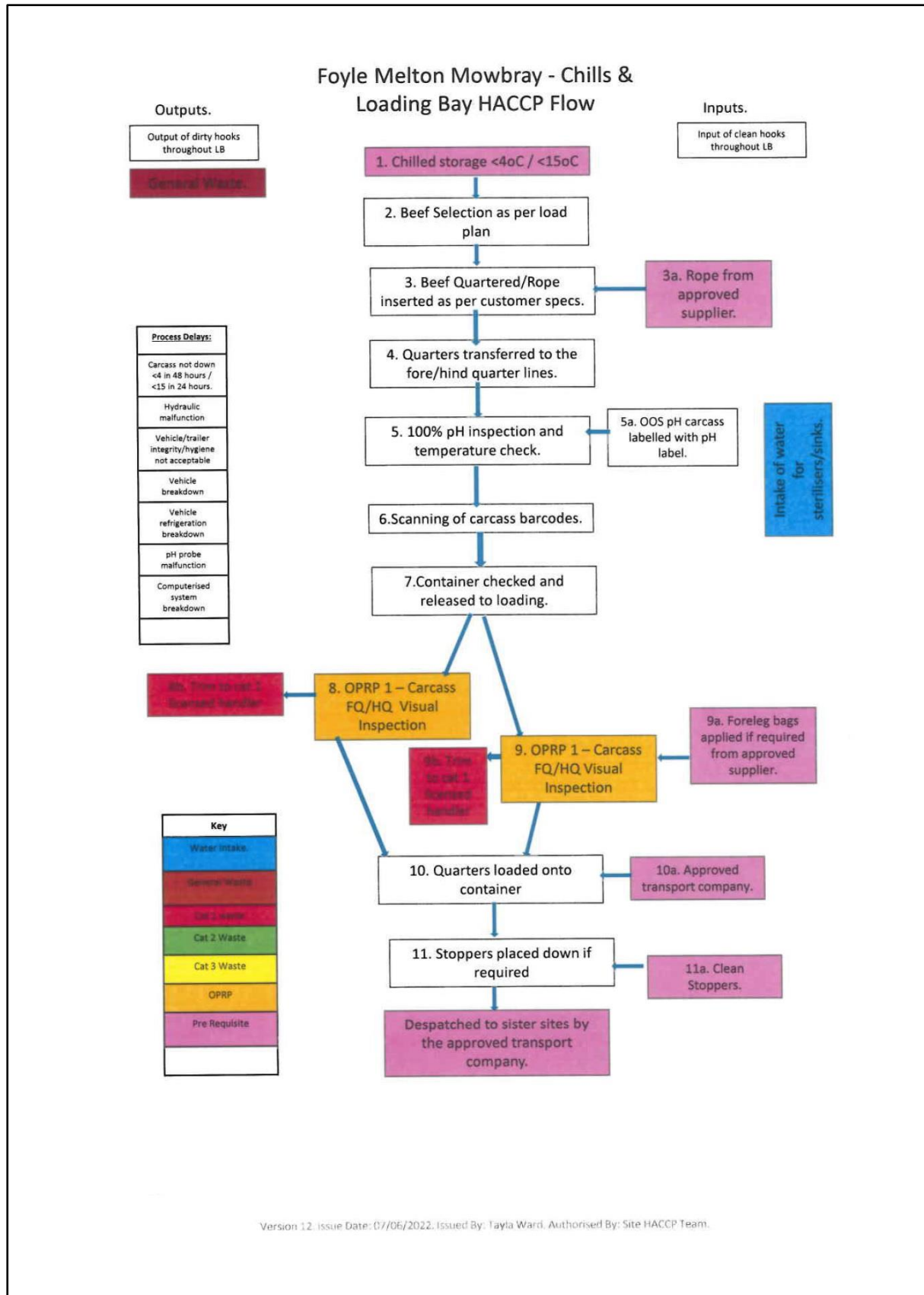


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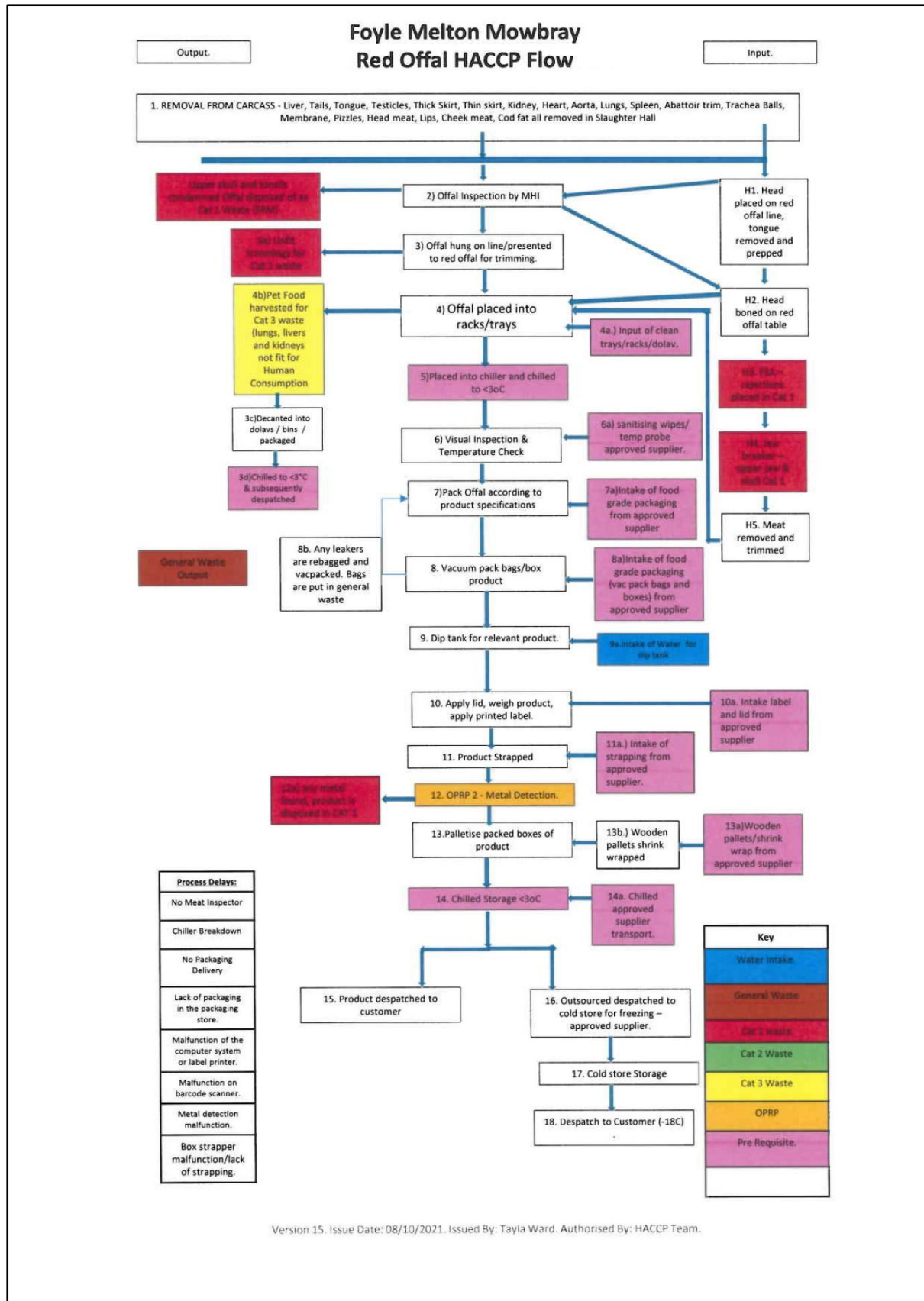


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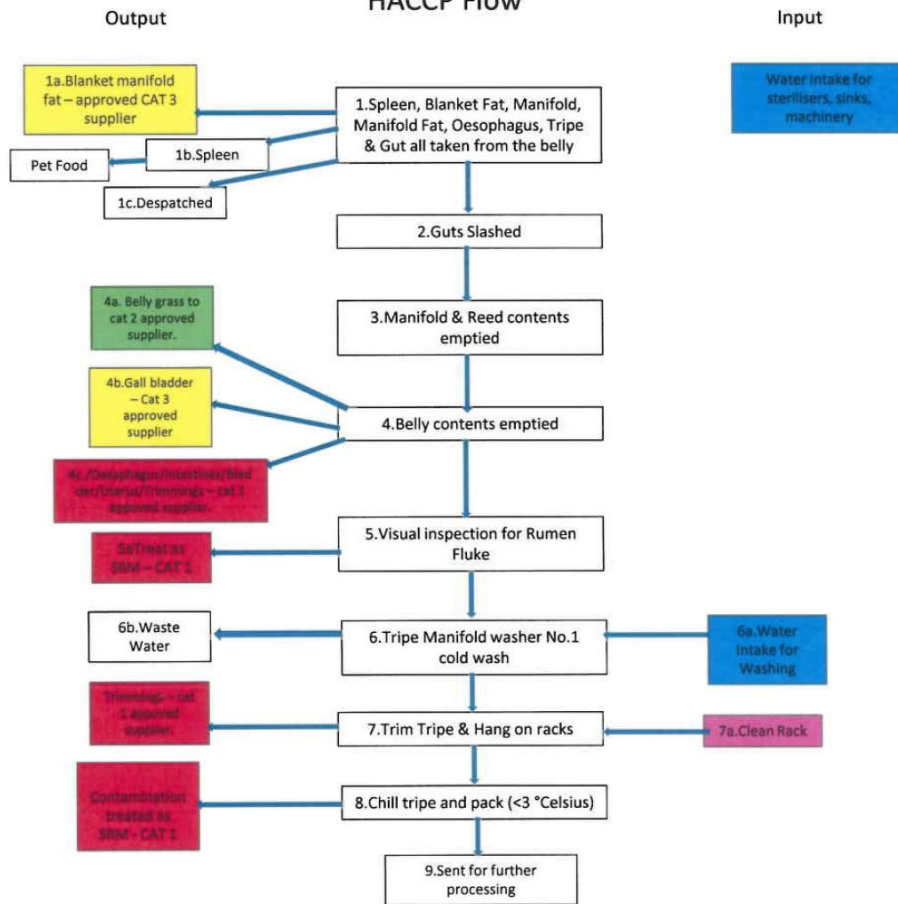
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**Foyle Melton Mowbray - Green Offal**  
**HACCP Flow**

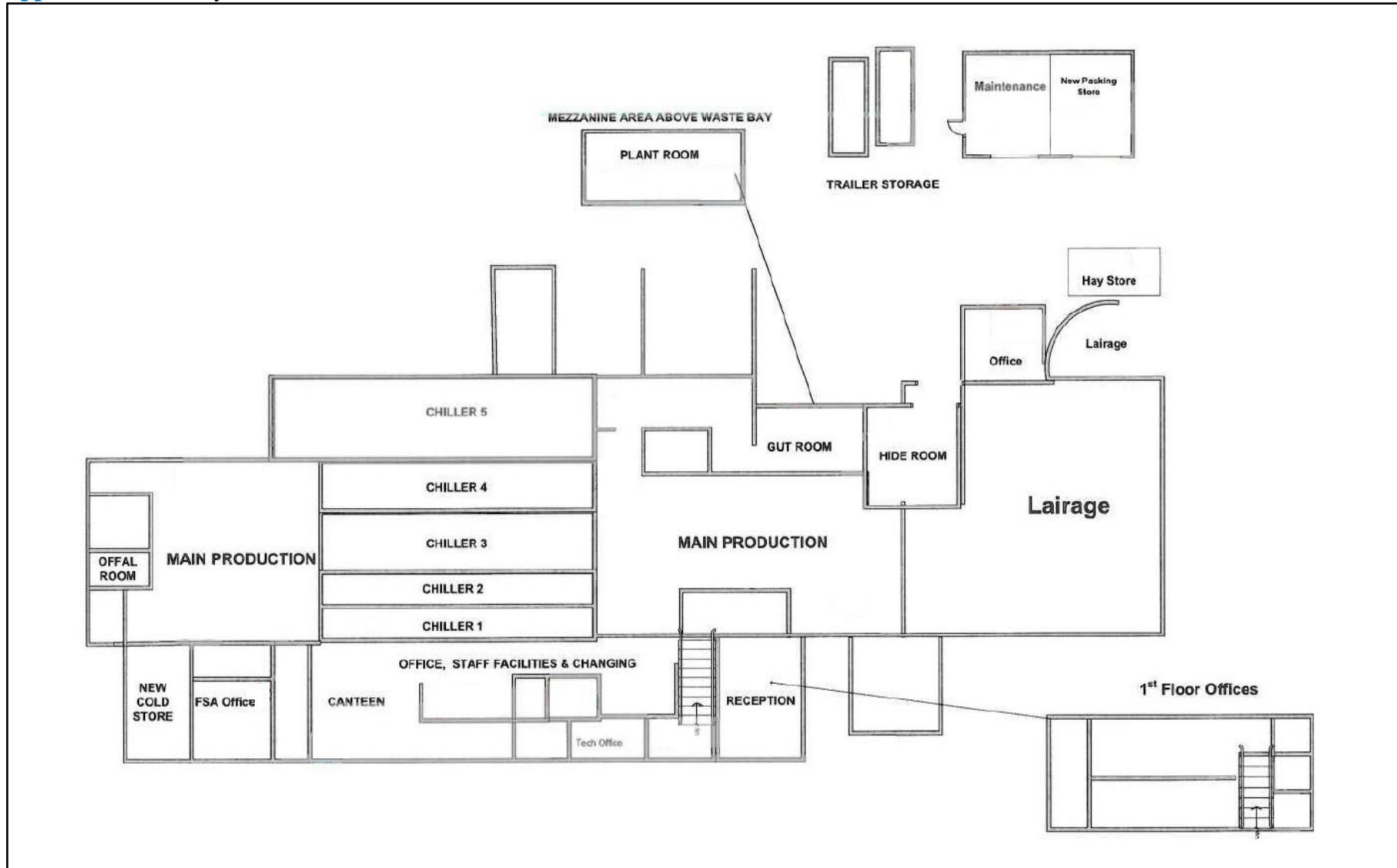


Key	Process Delays:
Water intake	Machinery malfunction.
Cat 1 Waste	No meat inspector or staff.
Cat 2 Waste	No waste dolavs in place
Cat 3 Waste	No cat waste trailers in place/on site.
General Waste	No Water supply.
Pre-requisite	
OPRP	

Version: 11. Issue Date: 08/10/2021. Issued By: Tayla Ward. Authorised By: HACCP TEAM.

**NON-TECHNICAL SUMMARY**  
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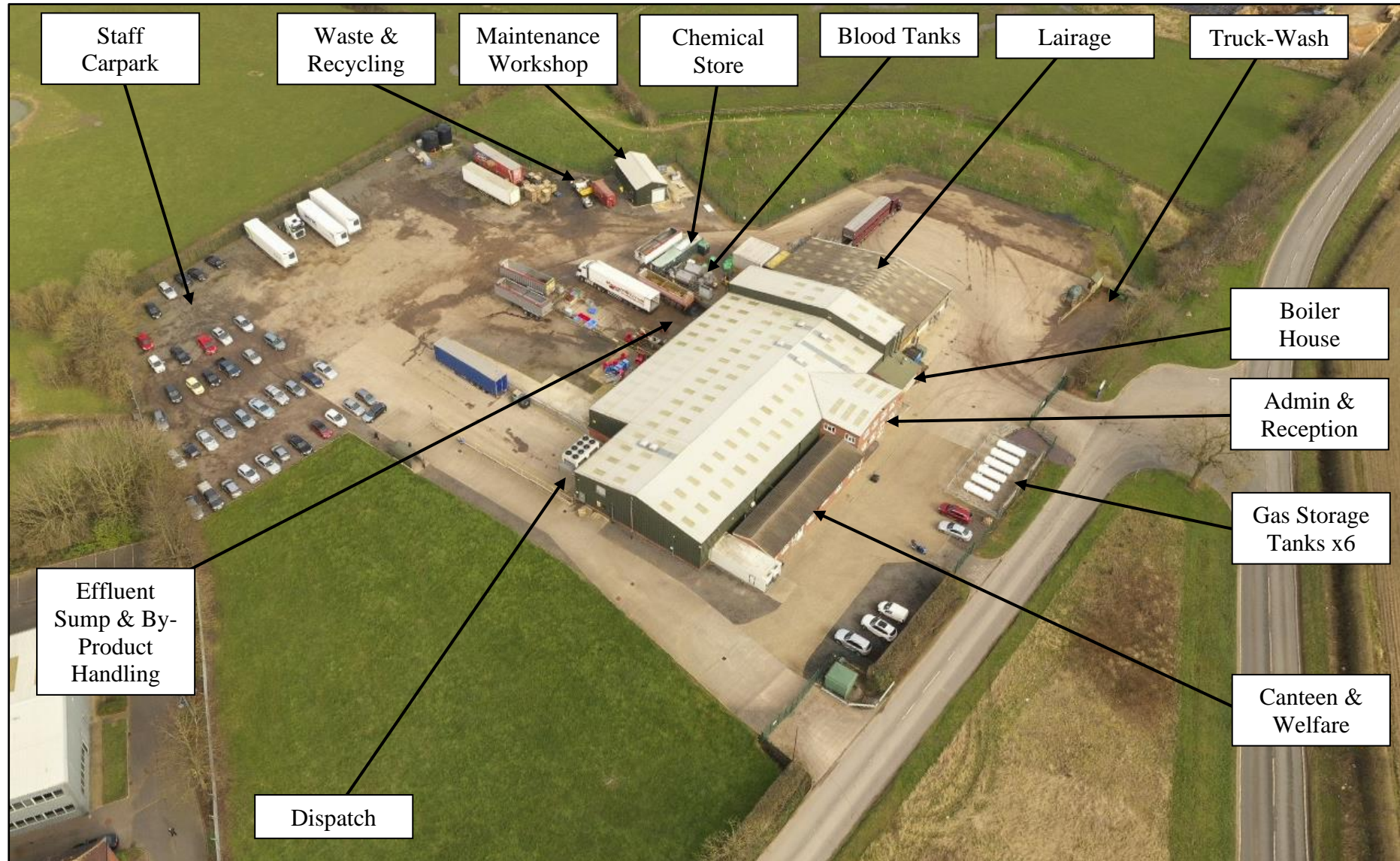
**Appendix C:** Site Layout Plan





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Aerial View of the Site





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Site Surface/Yard Layout



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**Figure 1:** Maintenance Workshop and Packing Store



**Figure 2:** Admin and Reception



**Figure 3:** Canteen and Welfare Facilities



**Figure 4:** Lairage



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**Figure 5: Boiler House**



**Figure 6: Main Structure Construction - Dispatch**



**Figure 7: Clean Yard – Paving Brick**



**Figure 8: Clean Yard – Poured Concrete**

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**Figure 9: Dirty Yard - Front of Site**



**Figure 10: Dirty Yard - East of Site & Truck-Wash**



**Figure 11: Dirty Yard - Rear of Site & Blood Tanks**



**Figure 12: Dirty Yard – Air Compressor Hut**



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**Figure 13: Dirty Yard – CAT Trailer &**



**Figure 14: Dirty Yard – Chemical Store**



**Figure 15: East of Site – Pours Hardstand & Dirty Yard**



**Figure 16: Rear of Site – Pours Hardstand & Dirty Yard**

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**Figure 17:** Pours Hardstand - Maintenance Workshop



**Figure 18:** Pours Hardstand – Waste Compactor