



5/29/2020

# SJS Agriplant Ltd

Tudworth Hall Farm, Hatfield,  
Doncaster DN76HQ

## Waste Drying

## Facility

## Site Permit

**EPR/FB3305XY/A001**

# Site Management Plan



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ATHELAS CONSULTANCY

**SJS Agriplant Ltd  
Waste Drying Facility  
Tudworth Hall Farm  
DN76HQ**

**Site Management Plan**

This Management Plan is a “live” document and will be reviewed on a regular basis or as required by events.

**Site Operator**

SJS Agriplant Ltd  
Hermitage Farm  
Braithwaite  
Doncaster  
DN75SU

**Company No. 09455272**

Sole Director Simon James Sleath.

**1 Site Activity**

The permitted area is a building specially erected for housing a warm air Perry continuous flow drier for the drying of waste and non-waste materials using the heat from the SWIP permitted biomass boiler. Waste materials and other materials for drying are stored in the building. This permitted area sits within the permitted area for SRP74 being a permitted area regulated by Doncaster Metropolitan Borough Council the SWIP biomass boiler and for associated wood storage and shredding activities.

This waste management plan sets out the methods for the acceptance, storage, treatment and subsequent handling of waste materials before drying and materials produced post drying.

## 2 Site Location

### 3.1 Grid Reference

The National Grid reference for the site entrance is **SE 68884 10961**

The National grid reference for the centre of whole site is SE **68937 10996**

The site is located on Tudworth Field Road which runs South from the junction of the A614 and the A18. The M180 is 1.63 km to the South West.

### 3.2 Site Address

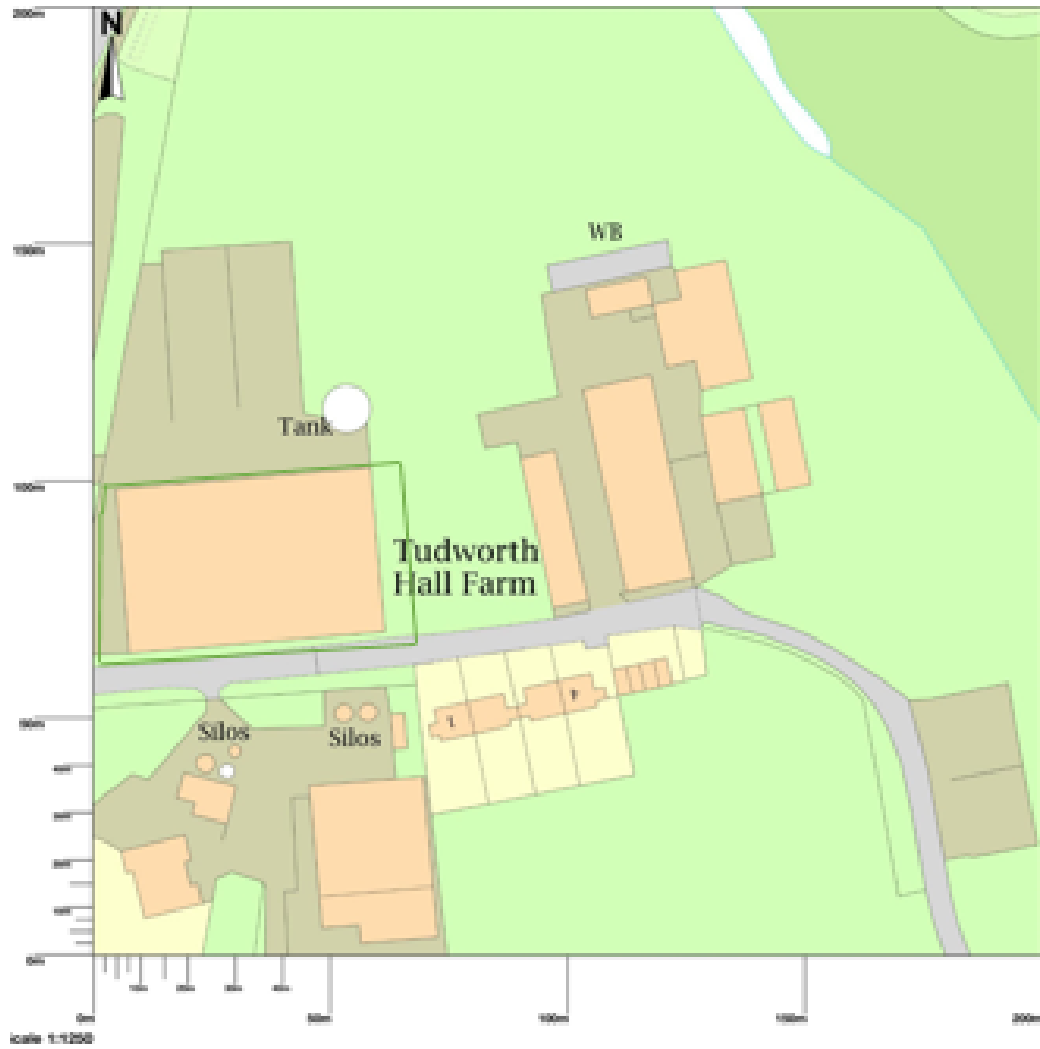
Tudworth Hall Farm, Hatfield, Doncaster, South Yorkshire, DN76HQ

The permitted site is approx.. 2052 sq M in size and sits within the original Tudworth Hall Farm yard.

**Fig.1 Site Location**



# Tudworth Hall Farm, Drying Facility Permitted Area SJS04a



## **4 Infrastructure**

**4.1.1** The site will be used principally dry waste paper sludges from paper manufacturing. These are not “sloppy” sludges but the paper crumb is brought onto site with a moisture content of 75% -90%. This is then dried down to > 35% as required.

**4.1.2** The access road, Tudworth Field Road will be maintained to ensure a safe and proper access to the site. An automatic electric gate secures the entrance to the site and is controlled from the site office.

**4.1.3** An area next to the offices is to be allocated for car parking to hold six vehicles.

**4.1.4** Office accommodation is located at building **6** on the detailed site plan. This is equipped with heating and lighting and the CCTV system that covers the site is located in this building. Most parts of the site can be viewed from the office windows.

### **4.1.5 Security**

The site has a three metre high soil bund running along the North, East and South east sides of the whole site. Most of this is outside the permitted area but provides security for the whole site. This bund will be inspected weekly and any faults remedied.

The site is covered by a CCTV system and there are employees of the company occupying cottages to the South of the site.

There is no public access from the South of the site.

## **5 Materials Drying Facility**

### **5.1**

**5.1.1** The permitted area is that defined by the green line in the environmental permit. The permitted activities are:--

<b>Table S1.1 activities</b>	
<b>Description of activities for waste operations</b>	<b>Limits of activities</b>
<p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p>	<p>Physical treatment consisting of sorting/separation and drying of non-hazardous waste for recovery only.</p> <p>Subject to any other requirements of this permit wastes shall be stored for no longer than 3 years prior to recovery.</p>

## **5.2 – Permitted Wastes**

The following wastes are permitted under the permit EPR/FB3305XY/A001

03-03-05 De inking sludges from paper recycling

03-03-10 Fibre rejects from mechanical separation

## **5.3 Waste Acceptance Criteria**

**5.3.1** All wastes brought onto the site will be by previous arrangement with the supplier, the type and grade of the waste being pre-determined. All loads will only be accepted if accompanied by the appropriate waste transfer notes and a weighbridge ticket. Loads will be weighed on the company's own onsite weighbridge. Loads will be visibly inspected upon arrival to determine the type and quality of the waste.

**5.3.2** The driver will then be directed to the appropriate bay within the building to tip the load.

**5.3.3** Any load that does not comply with the pre-determined agreement for the waste will be rejected before tipping. Any load tipped but not complying will be immediately re-loaded for removal from site. Any load NOT immediately re-loaded will be removed to the quarantine area and the delivering operator contacted.

## **6 Staff**

### **6.1 Staffing Levels**

**6.1.1** Staffing levels will vary depending on the whether the boiler only is running of the boiler plus wood shredding and straw handling is taking place.

The main staffing level will be:--

Company Director	SJ Sleath	1
CoTC	Alison Dring	1
Site Foreman Boiler / Dryer Supervisor		1
Loader driver		2
Additional staff when required		2

**6.1.2** Staff will be fully trained and informed so that they understand the requirements of the permits relating to the operation of the dryer and the handling of wastes and other materials for drying. Confirmation of this is in the training records. Also training will be given in the requirements for health and safety and safe working practices.

**6.1.3** Training will be given to operators as to the safe and efficient operation of the machinery used within the dryer building, fault reporting and maintenance procedures

**6.1.4** All visitors must sign the visitor`s book in the site office on arrival and before leaving.

## **7 Machinery Operation and Maintenance**

### **7.1. Operation**

**7.1.1** The machinery on site will be:--

Loading Shovels	1
Tractor & trailer	2

All machinery will be maintained to the standard laid out in the manufactures handbook. Full time mechanical fitters are employed by the company and are on 24/7 call to repair any defects in the plant or machinery  
Staff will be instructed in maintenance and there will be regular checks made by the contract fitter employed by the company.  
It is the duty of staff to report any malfunction or fault, including oil and fuel leaks to the site foreman or the CoTC. These will be recorded in the site diary and the fitter contacted.

**7.1.2** Any machinery working with the waste or other materials will be moved away from the material before stopping and allowed a cooling down period. After this period the machine will be inspected to ensure there is no risk of fire from exhausts or hot oil pipes. Any problems will be reported to the site foreman.

Machinery should be dusted down at least once a day to prevent build up and possible dust ignition.

**7.1.3** Any outside contractors working on the site will be required to comply with all appropriate and current legislation and the site rules. Only suitably qualified known contractors will be used.

## **8 Building Maintenance**

### **8.1.1**

The building will be regularly inspected for any damage or problems. These will be recorded in the site diary and also any actions taken.

### **8.1.2**

Attention will be paid to ventilation in buildings to avoid excessive dust in the atmosphere. If any excessive amounts of atmospheric dust are detected then work must cease until the air has cleared. This will prevent any possible dust explosion.

## **9 Record Keeping**

**9.1.1** The records kept onsite in the office will include:--

The Site Diary

Visitors Book

Transfer Notes

Load acceptance notes & weights

Duty of Care Records

Record of materials leaving Site

All statutory Health & Safety records; Accident book, PPE Records.

Records of any boiler malfunction or problem

Records of emissions from the dryer fan testing.

A record of all daily activities will be entered into the site diary which will be kept in the site office.

**9.1.2** Records will be kept of all waste entering and leaving the site and any problems relating to waste delivery. These records will be held for 3 years.

**9.1.3** A record will be made in the site diary of the weather for each day to include wind direction, approximate speed, any rainfall or weather conditions that prevent the site operating normally.



**9.1.4** A full record will be kept of any site incidents eg. machine failures, fuel and oil leaks, any accidents or near misses and adverse discharges of dust or noise.

## **10 Emissions**

There are no point source or fugitive emissions to water or land

### **10.1.1 Noise and Vibration**

All activities will be monitored on a regular basis for noise and vibration levels. The site Foreman is to walk round the site at least twice during the day to do this. Any adverse findings to be recorded in the site diary.

The six extraction fans on the northern side of the dryer are the main sources of any noise or vibration. These fans face away from the adjacent farm and the cottages.

Regular checks are made as to the noise levels and the fans can be immediately adjusted should the need arise.

**10.1.2** All mobile machinery will be fitted with reversing buzzers for health and safety reasons.

Should there be complaints about these then other types of buzzer will be considered.

## **10.2 Dust Management**

**10.2.1** All activities take place inside the building so any dust that arises from operational activity will be contained within the building and not be a risk to outside receptors.

The main source of dust is during the tipping of lorries in the bays, the loading of lorries with dried material, loading material into the dryer and from the dryer exit conveyor.

Dust levels from the paper waste are extremely low owing to the moisture contents of 90% down to 35%. Some dust will arise from the drying of grain mainly at the dryer exit conveyor. This is closely monitored and action taken if levels become high.

All steel work and the dryer will be checked regularly for dust build up. This is recorded in the site maintenance sheets any cleaning action will take place as required.

## **10.3 Odour Management**

**10.3.1** There is normally No odour associated with the paper pulp. This material will be processed through the dryer as soon as possible after delivery to reduce any potential odour problem. There is no problem once the material is dried.

Any odour risk will be monitored and assessed by a daily walk round by the site Foreman or CoTC

## **13 Dryer Emissions To Air.**

### **13.1**

Emissions to air from the dryer are by 6 outlet fans. The fans draw warm air through the material as it travels down the dryer on a mesh belt.

The 6 emission points (fans) are defined as S1 S2 S3 S4 S5 S6 as marked on the Site Plan.

### **13.2**

#### **Emissions and Monitoring**

##### **Point Source Emissions to Air**

Emission Point Ref	Source	Parameter	Limit including unit	Reference period	Monitoring frequency	Monitoring Standard
S1	Dryer	Particulate matter PM <sub>10</sub>	5mg/m <sub>3</sub>	Hourly Average	Note 1	EA Monitoring Guidance
S2	Dryer	--	--	--		
S3	Dryer	--	--	--		
S4	Dryer	--	--	--		
S5	Dryer	--	--	--		
S6	Dryer	--	--	--		

Note 1 First test 3 months following start of operation & annually thereafter.

### **13.3**

## Point Source emissions to Air Emission Limits & Monitoring Requirements

Emission point ref.	Source	Parameter	Limit including unit	Reference Period	Monitoring Frequency	Monitoring standard
S1	NO <sub>2</sub>	Dryer fan	1.29mg/m <sup>3</sup>	Hourly Average	One Off	BS EN ISO 23210 MCERTS
S2	--	--	--	--	--	
S3	--	--	--	--	--	
S4	--	--	--	--	--	
S5	--	--	--	--	--	
S6	--	--	--	--	--	
S7	--	--	--	--	--	

All monitoring and evaluation will be carried out by suitably qualified persons to EA approved standards.

### **14 Fuel Storage**

**13.1** There is one fuel storage tank on the site. Both are marked on the site plan.

**13.2** Oils for the machinery on site are stored at the Southern end of the office building No6 on the site plan.

### **14 Incident & Accident Management Procedure**

#### **14.1 Incident Reporting**

**14.1.1** Any accident, incident or near miss must be reported to the site Manager or the CoTC immediately and the occurrence recorded in the site diary and, if required in the accident log. This recording should be in compliance with all current legislation dealing with incidents and accidents.

**14.2.1 Incidents or malfunctions with drier.** Should any incident or malfunction connected with the drier occur then, if there has been or likely to be any sudden increase of emissions to air or a risk of fire or external combustion the dryer will be closed down as swiftly and safely as possible. An assessment will be made as to the need to either stop the material flow in the dryer or speed up the flow rate to evacuate any potentially burning material. The in-feed will be stopped immediately in the event of a malfunction

The site manager should be informed immediately and where applicable the site emergency plan should be implemented.

If there has been a sudden or prolonged increase in harmful emissions to air then DMBC Pollution Prevention Team and the Environment Agency will be informed.

**14.2.2 Incident Training.** The site manager and the CoTC will ensure that all staff are trained in accident and incident procedures and the site emergency action plan.

## **15 Drier Management**

**15.1.1** The drier will be operated according to the manufacturer's instructions and guidelines. The operation of the drier is computer controlled and the site manager is trained in the workings of this system and the use of any manual overrides should they be necessary.

Particular attention should be paid to the noise levels from the drier fans and adjustments should be made if noise levels rise beyond agreed levels. The outside level of noise will be determined by regular walk round checks especially after any fan speed resets.

**15.1.2** The drier will be monitored for any potential blockages and particular attention paid when there is a change of material being dried. Any malfunction will be reported.

**15.1.3** The drier and surrounding area will be cleaned down at regular intervals to prevent the build-up of dust and fluff material that may present a fire hazard.



## SJS Agriplant Ltd

### Site Electrical Maintenance Record

<u>Installation</u>	<u>Date</u>	<u>Inspector</u>	<u>OK (Y)</u> <u>Not (X)</u>	<u>Action</u> <u>Required</u>	<u>Action Taken</u>	<u>Date</u> <u>carried</u> <u>out</u>
<b>Lighting</b>						
Yard Lighting						
Shed Lighting						
<b>Dryer Shed</b>						
Mains switchgear						
Plugs						
Dryer Electrics						
Lights						
Cable Trunking						
<b>CCTV</b>						
Cameras						
Cables						
<b>Rest Room &amp; Office</b>						
Sockets						
Lights						
Appliances						
<b>Boiler Room</b>						
Cabinets						
Motors						
Cabling						
Lights						
<b>Shredding Shed</b>						
Motors						
Cables						
Switchgear						
Lights						







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**DRYER SHED MONITORING RECORD**

	<b>Date</b>	<b>Temp</b>	<b>Action</b>	<b>Follow up</b>	<b>Tested by</b>
Bay1					
Bay2					
Bay3					
Bay4					
Bay5/7					
Bay1					
Bay2					
Bay3					
Bay4					
Bay5/7					
Bay1					
Bay2					
Bay3					