DOCUMENT SJS/12

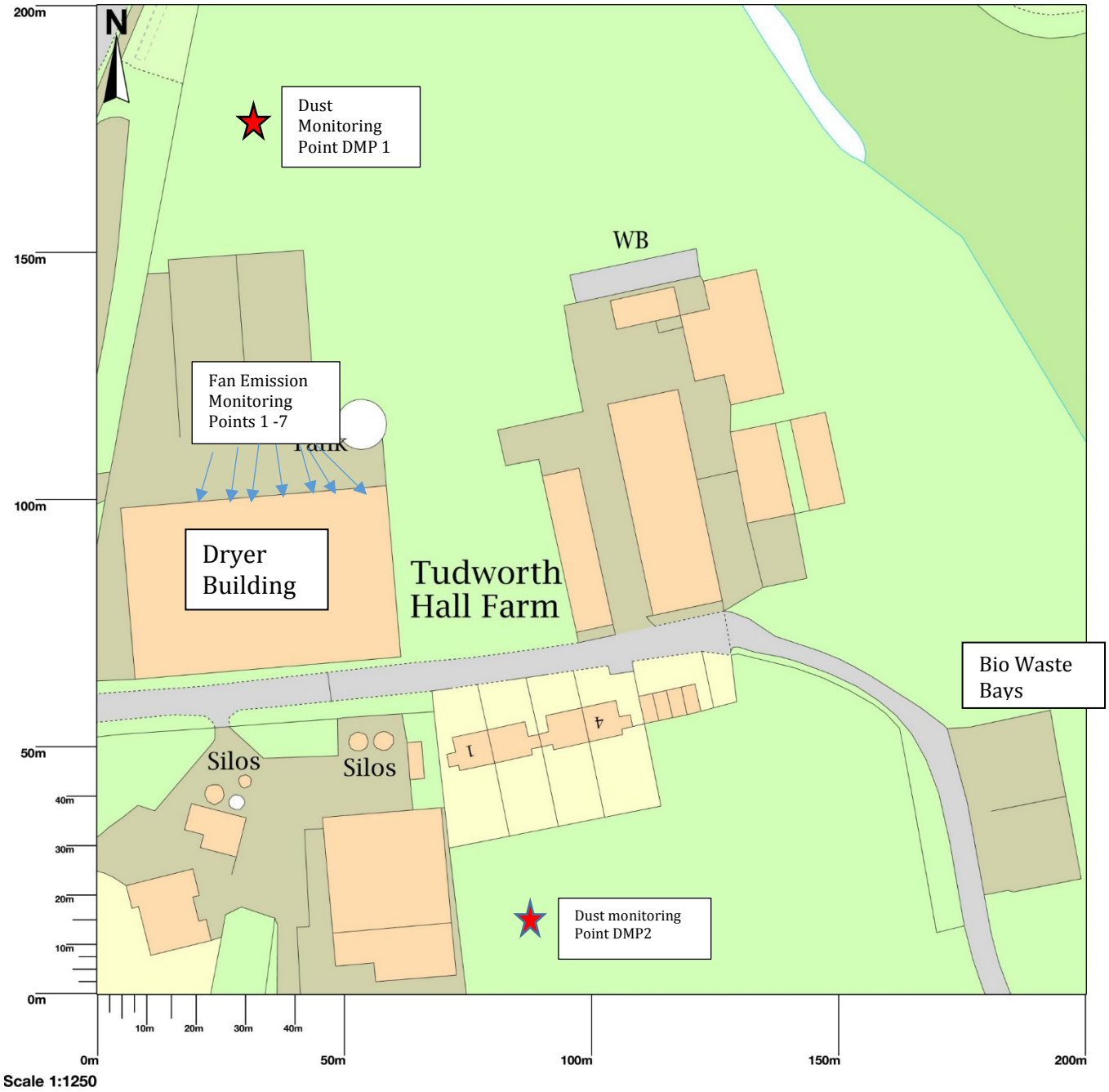
SJS Agriplant Ltd

Tudworth Hall Farm,

Environmental Management Plan

Emissions Management Plans for Noise, Odour, Dust, Mud & Pests

Emission Sample Points



Emissions Management Plans

1 Dryer Building

BAT 17 & BAT 18 will be used in assessing

1.1 Noise & Vibration

1.1.1 Dryer Fans

The seven dryer fans extracting warm air from the Perry belt dryer are located on the North side of the dryer building. These fans face away from and are down wind with the prevailing wind of the sensitive receptors of the houses and farm on the Southern side of the site.

The fan speed can be adjusted according to the loading of the dryer and the moisture reduction required on the material passing through. Regular checks will be made by staff to assess dryer noise and a Cadrim noise meter is available for accurate checks to be made.

Dryer Fans on North Side of Dryer Building 7 Fans 0.67m in Diameter

1.1.2 Background Noise

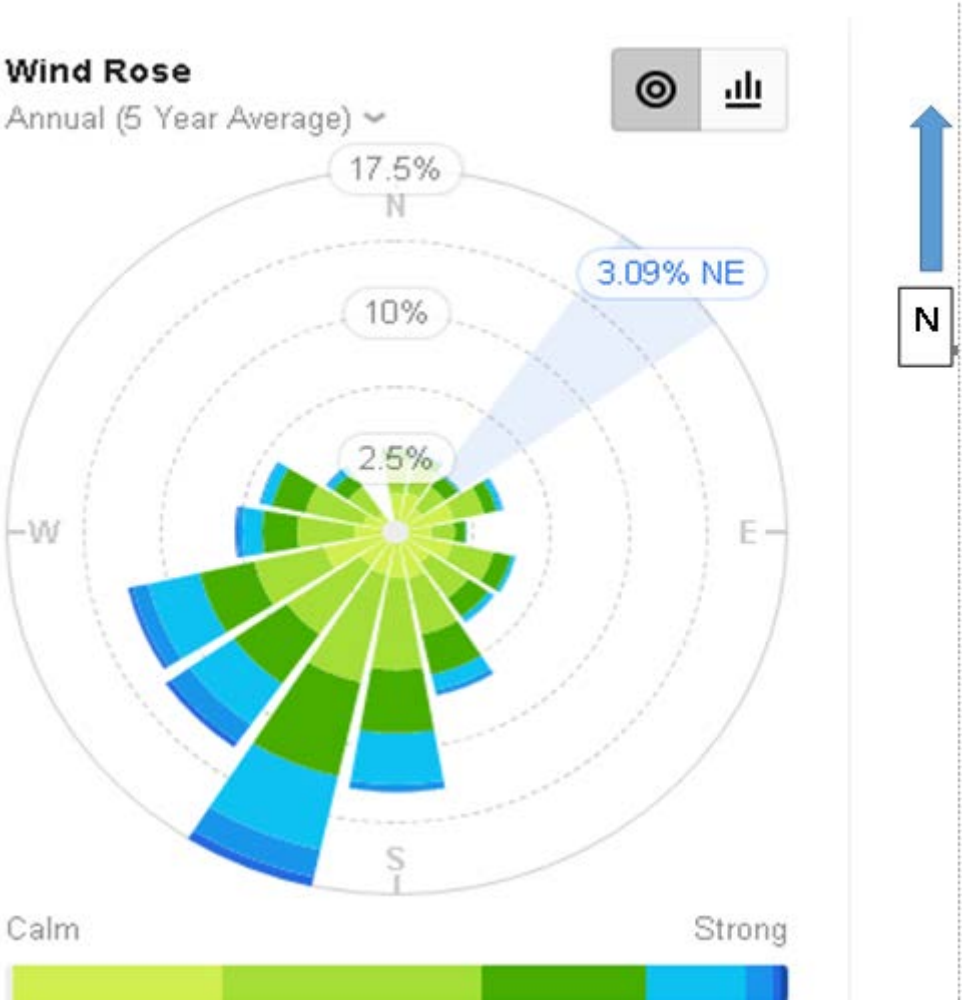
The site stands in an area of high background noise being at the junction of the M180 / M18 and the A614 road system. Measurements taken show a background level of 58 to 60db.

The M180 is 230m South of the site upwind of the prevailing wind. The A18/A614 is 110m to the

West. GBM inert processing site is 350m to the South west of the site.

These readings were taken during the conarvirus lockdown period and would normally be higher due to heavier levels of traffic on both the M180 and A18 / A614 junction.

Wind Rose for the Tudworth Hall Farm Site



1.1.3 Noise & Vibration Inside The building

All discharging and loading of lorries and trailers will take place inside the building.
The main source of noise and /or vibration will be from the loading shovel and its reversing alarm. Should the alarm be perceived as a nuisance it could be changed to a white sound alarm. Health & safety Regulations must predominate however.
Drivers will be trained to keep noise levels as low as possible.

1.1.4 Noise Assessment Survey

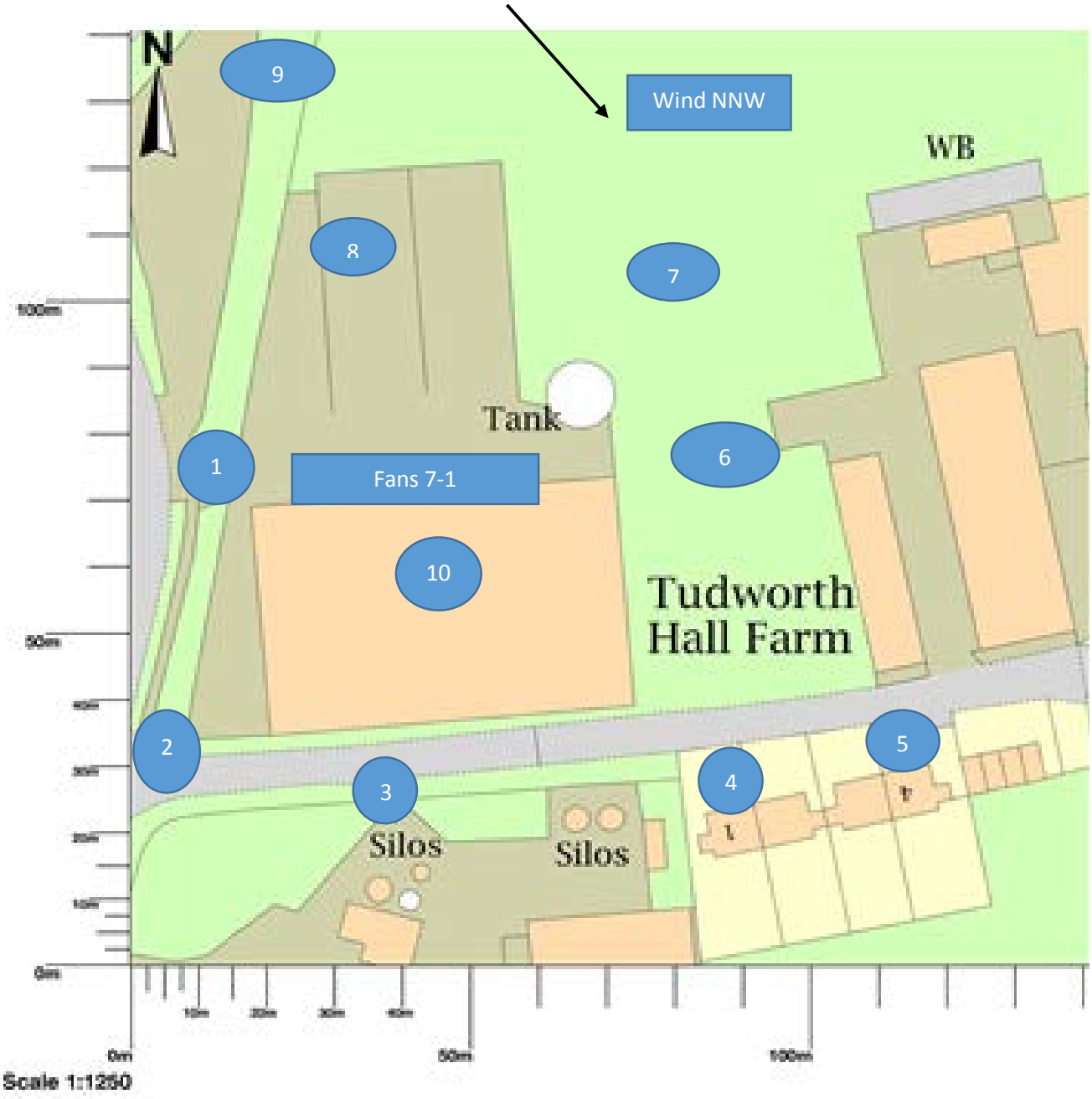
A noise assessment survey was carried out on May 6th 2020. Levels of background noise from the M180, 230m South of the site and the A614 and A18 were lower than would normally be expected due to Covid-9 shutdown.
The prevailing wind direction for the site is West South West through to South with the M180 upwind. Noise from the motorway is clearly identifiable at the site.

Background noise levels around the site were recorded at 55db to 61db. See attached site map

Noise Meter Readings

6th May 2020 Wind NNW Speed 14KMPH Temp 15c Pressure 1020 Sunny

▫WW



Point	Description	Reading db
1	Site Entrance 2	65
2	Site Entrance 1	63
3	Tudworth Farm House Gate	65
4	No 1 Cottage	61
5	No 4 Cottage	58
6	Eastern Side of Yard	61
7	Northern Side of Yard	59
8	40m From Building	70
9	Off Site near Roundabout	56 68 With passing traffic
10	Centre of Building	80/83
Fan1	At Fan Exit	91 25m away AV 77
Fan2	::	95 78
Fan3	::	97 76
Fan4	::	98 77
Fan5	::	98 77
Fan6	::	98 76
Fan7	::	96 74

Noise meter used

Cadrim	IEC 651 type2 ANSI S1.4 type2
Measuring Range	30-130db
Frequency Range	31.5Hz – 8KHz
Frequency Weighting	A
Precision	+/- & sine wave 1KHz @94db

The exit fans from the dryer discharge onto the North side of the building 70m from Cottage1 and 85m from Cottage 2. The noise is a low hum type and fan speeds can be varied if a problem were to be discovered.
The dryer building has a height of 9.1m at the eaves and 12.6 at the apex and at 53m long it shields Tudworth Farm House from much of the noise. Levels at THFH tested at 65dnb consistent with background levels. No complaints of noise have been made by or received from the occupants of the property.

The noise level inside the dryer building is high at 80/83db. This reading was taken when the dryer was running and the loading shovel was operating. The loader cab provides some reduction in the noise level at the operator. Ear defenders are available if required. Staff do not operate full time in the shed as the dryer operates automatically and only needs the supply hopper filling once every 2 hours and delivery/ outgoing loads are spread over the working period.

The noise levels on the site are considered to be of a low risk to sensitive receptors around the site given the constant background noise levels from the nearby road system. The noise levels within the shed require regular monitoring

1.2 Odour

1.2.1 Odour From Paper Sludges

The two materials accepted at the site are both a paper pulp. Neither material carries any strong odour other than that of wet paper. The odour is slightly more detectable in the wet material.

Both materials are handled and stored inside the building at all times and there is no odour released through the dryer extraction fans.
All odours have been assessed by Guy Tindale, Athelas Consultancy, who holds a Silsoe Laboratories Olfactory Detection certificate for odours down to 37ppm.
The risk of odours building up in stored material is low as the storage time is only 2 – 3 days for wet material (40-50%m) and up to 7 days for dry material.

1.3 Dust

All materials are handled and stored inside the building at all times. Some dust may escape through open doors but this is a very small amount. There is no dust from the wet material.
There is a low level of dust from the loading of dry material into lorries. This activity takes place inside the shed so there is no risk to sensitive receptors outside of the building.
The loading shovels have a sealed cab with a filter on the air circulation system which is checked during servicing and either cleaned or replaced as required.

Dust masks are available to staff. No visitors area allowed inside the shed during loading or unloading activities.

Dust will be monitored at the points DMP1 & 2 if there is considered to be a risk to sensitive receptors.

1.3 Pests and Vermin.

1.3.1 The materials are stored inside the building at all times and are not attractive to pests such as rats or mice. Short storage times reduce any risk to very low.

1.3.2 Being as the material is stored inside the building there is no risk of contamination from birds

1.4 Mud and Debris

Unless instructed to do so all lorries enter the site via the main gate turn. Turning right at the dryer shed to travel to the weighbridge. The entrance road and the yard have a concrete surface which will be inspected daily so no mud will be carried onto the highway.