## **RECYCLED MANURE SOLIDS - SELF ASSESSMENT AND VET REVIEW**

To use Recycled Manure Solids (RMS) bedding as a Red Tractor Assured Dairy farmer you must:

- Complete a self-assessment when you begin using the material and thereafter at least annually (PART A)
- Ask your vet to review and discuss usage of RMS bedding on-farm on an annual basis. This
  will require that the vet reviews the bedding in use and discusses its potential effect on cow
  health and welfare\*. This review can be undertaken at the same time as the full herd health
  and performance review as required by the Red Tractor Dairy standards (PART B)
- Allow Red Tractor to carry out an assessment on your farm to confirm that the Conditions of
  Use are being met on a nine-monthly basis (The cost of the additional assessment will be
  charged to your milk buyer who may pass this cost on to you)

To demonstrate that parts A and B have been undertaken, complete this template and keep a copy to show your assessor.

## PART A - FARMER SELF ASSESSMENT

The requirements listed below are required by law and **must be** followed at all times. Please indicate that you adhere to each of the requirements below and complete the declaration overleaf:

		Yes, I adhere (please tick)
1.	RMS must only be produced using raw cattle manure/slurry from housing	
	and/or yards	
	Manure from other livestock species must not be included for the production of RMS, to avoid introducing external pathogens which may affect cattle health	
2.	RMS must only be used as bedding for cattle which are in the same	
	epidemiological unit as those cattle from which it is generated	
	To minimise the risk of disease transfer, RMS must only be produced on the unit on	
	which it is to be used and only from slurry originating from that unit. Slurry or manure	
	must not be moved between units either before or after separation. An epidemiological	
	unit comprises animals which come into contact with each other directly or indirectly (e.g.	
	shared facilities or personnel) as part of the same farm business. They may not	
3.	necessarily be housed on the same site or premises.	
٥.	RMS must be produced from a slurry separator unit, designed for the	
	purpose, which produces manure solids of at least 34% Dry Matter	
	Slurry is mechanically separated into a liquid fraction and a 'solid' fraction, typically by using a screw or roller press action. The equipment needs to be capable of extracting	
	sufficient water to make the solid fraction at least 34% dry matter. If the material is too	
	wet (below 34%) it is unsuitable for use as bedding.	
4.	Material that has been composted or digested must not be used	
	The spores of certain bacteria, particularly those that are heat-resistant may be	
	encouraged by composting. Too high a concentration of spores can lead to losses during	
	the manufacture of cheese and reduce the shelf life of pasteurised milk.	
	Putting manure through a digester will also increase temperatures, which can affect	
	pathogen load. Until further information is available, use of RMS produced from the	
	output of a digester is not permitted. Equally, use of digestate which contains feedstock	
	from non-farm sources could cause an additional unacceptable risk, and must not be	
	used.	
	RMS must be used within 12 hours of its production to avoid composting or anaerobic digestion of the material and significant change to its nature and microbiological	
	composition.	
5.	RMS must not be produced from manure/slurry of herds which are subject	
0.	to official restriction for notifiable diseases, (refer below for TB specific	
	conditions)	
	A list of notifiable diseases is available on Defra's website	
	(http://www.defra.gov.uk/animal-diseases/notifiable). The main notifiable disease of	
	concern is foot and mouth disease, as the infective agent can occur in faeces and urine	
	up to four days before clinical signs appear.	

6.	Manure from TB Inconclusive reactors and TB reactors must be excluded	
	from the use of RMS.	
	Unless TB is advanced in an animal, there are unlikely to be large numbers of organisms	
	shed in faeces. However, as yet the specific risk of TB spread though manure/slurry has not been quantified. With regular testing, the chances of reaching this stage of infectivity	
	are much reduced. However, if TB were present in slurry, it is not likely to be reduced by	
	physical separation. Therefore, <b>RMS may only be made and used in herds that are</b>	
	Officially Tuberculosis Free (OTF) for bovine TB. RMS made from manure/slurry	
	originating during a period of non-OTF status is potentially contaminated and must not be	
	used after OTF status is regained.	
7.	The production and use of RMS must be suspended if animals on farm	
	show clinical signs of infection or have tested positive for enteric	
	pathogens or outbreaks of clinical disease (e.g. Salmonella, VTEC etc.).	
8.	RMS must not be produced from slurry/ manure of cattle that are	
	undergoing treatment for disease	
	Using antibiotics and dry cow therapy responsibly are an essential element in the fight against animal disease. However, there are concerns over an increased risk of antibiotic	
	resistance developing in manure being recycled for bedding. Every effort should be made	
	to take the slurry to be processed for RMS from groups where no cow, or a minimal	
	numbers of cows are currently being treated with antibiotics. You may want to consider	
	putting a protocol in place to ensure slurry/manure from cows under treatment or	
	withdrawal can be kept separate from the rest of the herd, e.g. using a	
	quarantine/isolation pen. In the event that all cattle or a significant proportion of the herd	
	are being treated with antimicrobials, then their slurry/manure should not be used to	
	produce RMS during the treatment and withdrawal period.	
9.	RMS must not be produced from manure/slurry produced in quarantine	
	pens	
4.0		
10.	Manure from aborted cattle under brucellosis investigation must be	
	excluded from use as RMS	
	On farms where RMS are being used for bedding, rigorous biosecurity is even more	
11	important in relation to suspected brucellosis cases as it is a zoonosis.  Other materials, such as birthing fluids and placental material, manure	
' ' .	from calving areas, and waste milk must not be disposed of by adding	
	these to manure/slurry going for RMS	
	Afterbirth and other fluid materials are a potential risk for disease transmission. Waste	
	milk, subject to withdrawal period, must not be added to the slurry pool, as there is an	
	increased risk of developing antibiotic resistance and increased risk for Johnes.	
	Anecdotally, inclusion of waste milk in material used for bedding has been associated	
	with increased cell count/mastitis problems.	
12.	RMS must only be used as bedding for housed cattle over twelve months	
	old	
	Regulations on calf health and welfare (Council Directive 2008/119/EC and the Welfare of	
	Farmed Animals Regulation 2007) state that calves must have access to a lying area	
	which is 'clean, comfortable and adequately drained and which does not adversely affect the calves'. Young-stock are particularly susceptible to disease and if infected may be	
	highly contaminating themselves. Risks of disease transmission will be minimised by	
	preventing calves less than twelve months old from having contact with faeces and slurry	
	from adult cattle. Any calves that are inadvertently born in areas bedded on RMS must be	
	removed as soon as possible from the area, to a location where suitable alternative	
	bedding is provided	
13.	RMS must only be used on cubicle beds, and not as a deep bed in pens or	
	yards	
	RMS must only be used in cubicles, either as a layer on top of mattresses, or as a cubicle	
	bed up to 15cm in depth. It should not be used in calving areas, due to the susceptibility	
1/1	of new-born calves to Johnes disease or other pathogens.  Excellent pre-milking teat preparation must be conducted which must	
14.	include a pre-milking teat disinfection	
	Pre-milking teat disinfection ('pre-dipping') allows a rapid reduction in the number of	
	bacteria that are present on the skin of the teats and is associated with lower total	
	bacterial counts (TBC) in bulk milk.	
15.	Milk from herds using RMS must be pasteurised	
• • •	All bedding materials are potential sources of contamination for milk. Micro-organisms	
	and their spores can get on to the teat from the bedding and through the milking process	
	end up in the milk bulk tank. As a precautionary measure, all milk and milk products	
	derived from farms using RMS must be pasteurised. Unpasteurised milk or milk products	
	must not be consumed (this includes consumption by farmers, farmer families and farm	
<u> </u>	workers).	

16. RMS must not be produced from the faeces of cattle that have been brought into the herd from elsewhere, for a period of one month after their introduction								
17. There should be no shared equipment for the handling and processing of feed and RMS								
between uses. Designed to prevent	If any equipment is shared (loaders etc.) it must be thoroughly cleaned and disinfected between uses. Designed to prevent cross contamination of feed or forage.							
18. Should any separation equipment be moved between different epidemiological units, it must be thoroughly cleaned and disinfected								
before moving and subsequent re-use								
In mainland Europe, movement of contaminated equipment has been linked to transfer of pathogens from one farm to another.								
19. Farms using RMS must notify APHA and Red Tractor.  In addition to the requirement to notify Red Tractor (email:dairy@redtractor.org.uk or phone 0203 617 3670) farmers must also notify APHA if they wish to use RMS. Complete the Notification of Registration of Farmers Using Recycled Manure Solids as Dairy Cattle Bedding (AB144) and submit to APHA either by email (CSCOneHealthABP@apha.gsi.gov.uk) or by post to:  ABP Team  County Hall  Spetchley Road  Worcester								
WR5 2NP			-					
Declaration  I have completed a review of the us	e and systems around the use of	Recycled Manure	Solids on my					
farm and confirm that I believe all co		all times	·					
Name	Signature	Self-assessmer	nt date					
PART B – VET REVIEW								
It is a requirement that a veterinary surgeon completes an annual review of RMS as a bedding source. This will require that the vet reviews the product in use and discusses its potential effect on cow health and welfare*. This review can be undertaken at the same time as the full herd health and performance review as required by the Health Planning standards								
Declaration								
I have completed a review of the use and systems around the use of Recycled Manure Solids as a bedding material and have discussed current and relevant legal requirements along with the implications on cow health and welfare*.  *This innovative bedding is still in its infancy and there are potential unknown risk factors associated with its use. Therefore, the vet surgeon cannot be held responsible for any subsequent adverse effects to cow or human health.								
Farm Name	Visit date	Vet practice						
Vet Name	Vet Signature							

For more information on the Conditions of Use and to notify Defra that you are using RMS, go to <a href="https://www.gov.uk/government/publications/use-recycled-manure-solids-as-cattle-bedding">https://www.gov.uk/government/publications/use-recycled-manure-solids-as-cattle-bedding</a>