

4<sup>th</sup> June 2018

Stuart Ross  
Regulatory Officer, Industry Regulation Team  
Natural Resources Wales  
Chester Road  
Buckley  
Flintshire  
CH7 3AJ

Dear Stuart,

**Odour Impact Assessment 29<sup>th</sup> May 2018.**

As part of our permit compliance obligations and to comply with improvement condition 2 please find attached the odour impact assessment that was conducted here at Maelor Foods Wrexham on 29<sup>th</sup> May 2018.

I would like to point out that the following recommendations have or are in the process of being actioned. I have added comments to those improvement recommendations below.

Page 3

"Draining the balance tank down to determine if there are accumulated solids in the base of the tank which are not being disturbed, mixed and aerated by the venturi system. If there are solids in the tank, then they should be removed and the tank should be completely cleaned out before being brought back into service. The effectiveness of the venturi mixer, in terms of both aeration and as a mixing system, could then be re-assessed."

***The balance tank was emptied over the course of Thursday 31<sup>st</sup> May and Friday 1<sup>st</sup> June 2018. All debris from the bottom of the tank was pumped out and the tank cleaned.***

"Consideration should be given to maintaining the balance tank at a lower liquid level (to reduce residence times and the potential for anaerobic decay) and draining down the balance tank periodically, say at weekly intervals, to ensure that solid accumulations do not occur and/or are removed before significant anaerobic decay occurs. "

***Maelor Foods is currently considering the plan/ schedule for running the tank empty on a regular basis to ensure there is no excess build up of decaying/ septic matter at the bottom. This will be confirmed by: 1 month of the date of this letter***

"Investigate the possible use of an alternative mixing system which will not result in the aggressive aeration seen with the venturi to avoid odour "stripping". "

**Maelor Foods Ltd**  
**Pickhill Lane, Cross Lanes, Wrexham, LL13 0UE**  
**Telephone No: 01978 802 337**

UK  
7047  
EC



**Maelor Foods will monitor the impact of the balance tank clean and current venturi mixing system and decide whether an alternative mixing system should be installed. This will be confirmed by: 3 months of the date of this letter**

"Consider using dosing chemicals to control septicity and odour generation in the balance tank."

**Maelor Foods will monitor the impact of the balance tank clean and current process and decide whether chemical dosing is required. This will be confirmed by: 3 months of the date of this letter**

"As a final resort it may be necessary to considering covering and odour controlling the balance tank, but this would introduce additional health and safety risks for any maintenance and cleaning work, which is inevitable where mixers have to be used and where solids are likely to settle in the base of tanks."

**Maelor Foods will monitor the impact of the balance tank clean and current process and decide whether a cover for the balance tank is required. This will be confirmed by: 3 months of the date of this letter**

Page 4

"In terms of scrubber operating parameters, it is suggested that scrubber pH should be maintained close to 9.0 as an upper limit and redox should be controlled in a range from 700 to 750 mv."

**The advised parameters in the report were implemented on 27<sup>th</sup> May (two days prior to assessment being completed).**

I trust you will find this report sufficient however if you have any questions relating to the report, please do not hesitate to contact me.

Yours Sincerely

Mike Howard  
Health & Safety Manager

No hard copy. Electronic copies sent to:

[stuart.ross@naturalresourceswales.gov.uk](mailto:stuart.ross@naturalresourceswales.gov.uk)

[Mulkh@maelorfoods.co.uk](mailto:Mulkh@maelorfoods.co.uk)



**Maelor Foods Ltd**  
**Pickhill Lane, Cross Lanes, Wrexham, LL13 0UE**  
**Telephone No: 01978 802 337**

Registered Office: Salisbury House, Vulcan Road, Bilston, West Midlands, WV14 7HT  
Company Registration No. 9156025