



3rd December 2013

Mr I Oakes
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Dear Mr Oakes

PART B REPORT (SCHEDULE 1) – PPC PERMIT NUMBER BU 2357

Please find enclosed the information provided as a Part B report for the following Part A notification:-

Part A ref. No. 07/11/2013

Yours sincerely
FOR WARWICK CHEMICALS

MR PETER BRYANT
HEALTH SAFETY & ENVIRONMENT MANAGER

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	<i>/p</i>	4/12/13
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Part B Notification (schedule 1) in accordance with condition 5 (5.1.1 and 5.1.2) of PPC Permit BU 2357.

REFERENCES

Part A form, Ref. N°. 07/11/2013 submitted to the Environment Agency on 07/11/2013.

Further, more accurate information on the matters for notification under Part A.

Average solid content was 362mg/l over the two hour discharge period, 02.42hrs to 04.42hrs. The total volume discharged was 1053m³. The pre-discharge sample from tank 2 indicated that the solid content was high. This was re-sampled and gave a result of 214mg/l. Although this is high it is below the emission limit and the pre-sample has been, historically, higher than the final discharge result.

There had been no indication on the turbidity meter located in the central collection chamber that there had been incidents of high solid material being pumped down to the hold tanks during the tank collection period and there had been no independent reports from any of the production plants of any loss of containment or other incident. The monitoring equipment in the central collection chamber and in the outfall pipe had been cleaned and calibrated two days prior to this incident.

The discharge was carried out automatically as normal and only when the composite sample, made up from multiple collections during the discharge, was analysed was the solid content known to be above the emission limit.

Further analysis (ash test, microscopic examination) of the solid has shown that the majority of the solid material was fungal hyphae. This fungal material is not easily identified by the turbidity meters currently installed in the waste water treatment plant system. Looking at the graphical profile of the solid content in the discharge it is seen that the solid content goes up at the very end of the discharge indicating that material that had settled out at the base of the tank had been caught up in the 'swirl' as the material was exiting the tank and had adversely affected average of the composite result.

The analysis of the composite sample did not show any process material, all other emission parameters of the discharge were below the consent limits.

Measures taken (or intended to be taken) to prevent a recurrence of the incident.

The chemical dosing system for the Mostyn water has been adjusted to provide 5% free chlorine dioxide to treat/kill any incoming fungal hyphae. The operation of the DAED bund has changed and the area is now kept as dry as possible. This has reduced the possibility of any fungal hyphae growing in the relatively stagnant water and then passing on into the site drainage system. The sampling schedule set up to monitor the fungal hyphae levels at a number of locations on site is still on-going and has shown a reduction in a number of areas.

Holding tank 1 was cleaned out on 01/11/2013 following the recent high algal hyphae content in the discharge, holding tank 2 is being cleaned out within the next couple of days.

Measures taken (or intended to be taken) to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission.

It is thought that no measurable environmental damage has occurred as a result of this incident.

Dates of unauthorised emissions from the installation in the previous 24 months.

14&15/01/2012, 6&7/08/2012, 20/09/2012, 28/11/2012, 13/01/2013, 06/05/2013, 09/10/2013.