



19/08/2014

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 further information provided as an additional Part B report for the following Part A notifications:-

Part A ref. No's. 20/07/2014, 21/07/2014 and 22/07/2014

Yours sincerely  
FOR WARWICK CHEMICALS

**MR PETER BRYANT**  
**HEALTH SAFETY & ENVIRONMENT MANAGER**

	INITIALS	DATE
OK FOR PUBLIC REGISTER	<input checked="" type="checkbox"/>	3/9/14
OK FOR PUBLIC REGISTER	JB	EDem

<b>TITLE :</b>	Part 'B' Report Form			<b>ISSUE NO.</b>	15.0
<b>REF :</b>	RCF20	<b>AREA:</b>	SITE	<b>DATE OF ISSUE:</b>	08.05.13
<b>RELATED DOCUMENT:</b>	WI 903 App C		Last printed 02/09/2014 12:14:00	<b>PAGE:</b>	2 of 3
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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<sup>o</sup>. 20/07/2014 submitted to the Environment Agency on 21/07/2014.  
Part A form, Ref. N<sup>o</sup>. 21/07/2014 submitted to the Environment Agency on 21/07/2014.  
Part A form, Ref. N<sup>o</sup>. 22/07/2014 submitted to the Environment Agency on 23/07/2014.

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

The discharge on the 20<sup>th</sup> July was 886.9m<sup>3</sup> with an average solid content of 421mg/l. All other discharge parameters were within consent limits. The pre-discharge result for solid content was 393 mg/l.

The discharge on the 21<sup>st</sup> July was 609.7m<sup>3</sup> with an average solid content of 288mg/l. All other discharge parameters were within consent limits. The pre-discharge result for solid content was 222 mg/l.

The discharge on the 22<sup>nd</sup> July was 535.8m<sup>3</sup> with an average solid content of 262mg/l. All other discharge parameters were within consent limits. The pre-discharge result for solid content was 100 mg/l.

For the situation on the 20<sup>th</sup> July the pre-sample had been taken from Tank 2 and tested giving a result of 346mg/l. Further samples were taken and the test repeated, the results ranging between the mid 300's and low 400's. The situation was further compounded by the heavy rainfall that had occurred during the collection period and was still on-going resulting in the second holding tank level steadily increasing, and not allowing for a portion from Tank 2 to be transferred into Tank 1 in an effort to reduce the solids load that would be discharged. The trend information for the central collection chamber had been reviewed and this indicated that there had been no unusual activity relating to the material passing through this chamber on its way to the holding tanks and there had been no reports of any loss of containment in any of the manufacturing areas.

The Plant Manager had consulted the HSE Manager and discussed the possible options before making the decision to continue with the scheduled discharge.

All of the other discharge parameters (COD, pH, temperature, discharge volume/rate and ammoniacle nitrogen) were well within the emission limits for each of the discharges.

The sample taken during the final discharge was retained and tested giving a solid result of 421mg/l. Portions of this sample were analysed under the microscope and it was seen to contain high levels of fungal hyphae.

The discharge from Tank 1 the following day (21<sup>st</sup> July 2014) followed a similar pattern without the additional rainwater complication. Again the retained composite sample following the discharge was examined and showed a high level of fungal hyphae.

The discharge sample for the 22<sup>nd</sup> July was examined and was found to contain high levels of fungal hyphae. % ash determination was carried out on all three samples with the results indicating that there was a high organic content in each discharge.

The monitoring equipment at the central collection chamber and the final discharge point continue to be cleaned and calibrated on a weekly basis. There have been no reports of any equipment mal-function or failure.

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

Arrangements were made for tank cleaning and, following the discharge of Tank 2 (solid content of 105mg/l) and the discharge of Tank 1 (solid content of 27mg/l) holding Tank 1 was cleaned out on the 22<sup>nd</sup> July with Tank 2 being cleaned out on 24<sup>th</sup> July following the discharge that had a solid content of 262mg/l.

Arrangements had been made for both the tanks to be emptied, scraped clean and disinfected during the scheduled August shutdown. This has now been rescheduled to the October shutdown due to production pressures.

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Monitoring of the water systems on site is on-going, looking at the levels of fungal hyphae at various points within the system. The dosing system for Mostyn water is checked regularly to ensure that it is operating within the specified parameters and providing a residual active level at the farthest ends of the water system. Additional testing is currently being carried out looking at the potential impact that the fungal hyphae might have on the COD levels in the waste water discharge.

**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.**

20/09/12, 28/11/12, 13/01/2013, 06/05/2013, 09/10/2013, 07/11/2013, 23/12/2013, 20/02/2014, 22/02/2014, 26/02/2014, 19/06/2014.

