

6th February 2020

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. N°. 29/01/2020 -A, 30/01/2020 -A, 01/02/2020 -A, 03/02/2020 -A

Yours sincerely
FOR WARWICK INTERNATIONAL GROUP LIMITED



MR PETER BRYANT
HEALTH SAFETY, ENVIRONMENT & SECURITY MANAGER

TITLE :	Part 'B' Report Form			ISSUE NO.	15.0
REF :	RCF20	AREA:	SITE	DATE OF ISSUE:	08.05.13
RELATED DOCUMENT:	WI 903 App C			PAGE:	2 of 4
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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°. 29/01/2020 -A, 30/01/2020 -A, 01/02/2020 -A, 03/02/2020 -A submitted to NRW on 6th February 2020.

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

Please see the table below for the specific information relating to the dates/times/solid content of the recent consent limit breaches for solid content.

DATE	DISCHARGE TIMES	VOLUME DISCHARGED	SOLID CONTENT
29/01/2020	03.27 to 05.27hrs	1444m ³	328mg/l
30/01/2020	04.02 to 06.02hrs	1293m ³	294mg/l
01/02/2020	17.30 to 19.30hrs	1333m ³	336mg/l
03/02/2020	19.26 to 21.26hrs	1293m ³	291mg/l

All the other parameters for each of the discharges were within the consented limits.

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

Following the previous high solid discharge, the decision was taken to clean out both waste water holding tanks. This was carried out on the 7th January and 8th January 2020. There did not appear to be an abnormal amount of solid material in either of the tanks. Each tank was brought back on line and, according to the analysis, the solid content numbers for the following discharges were down to the expected/normal levels.

The central collection chamber was also cleaned out on 8th January 2020. The cleaning schedule for this chamber is still in place, being carried out every 10 weeks.

A review was carried out to try to identify the cause of the high solid content. Analysis of the material has identified a significant quantity of fungal hyphae in each of the samples collected during the discharge period, see pictures below. The review identified that there were a number of banded areas on site where there was a level of water present. It was suggested that these areas, combined with the unseasonal warm weather, had contributed to the proliferation of fungal hyphae in the waste water. Looking at the daily discharge solid content figures there does not appear to be any obvious pattern to the high solid content, it does not correspond to any particular manufacturing operation/cleaning process.

The Manufacturing department will be progressively cleaning out the bund areas either by simply pumping out any residual water or by the use of a vacuum tanker.

It has been identified that there was a fault on the dosing head for the chlorine dioxide addition to the Mostyn water reservoir, resulting in the residual quantity of chlorine dioxide found at the East end of the site being reduced from the usual ~1.5% to ~0.02%. Repairs are currently being carried out. This low level of residual free chlorine dioxide has been identified before (May 2019 to September 2019) without the associated build-up of fungal hyphae or breach of consent limit.

The solid content will continue to be monitored to see if there are any obvious trends developing.

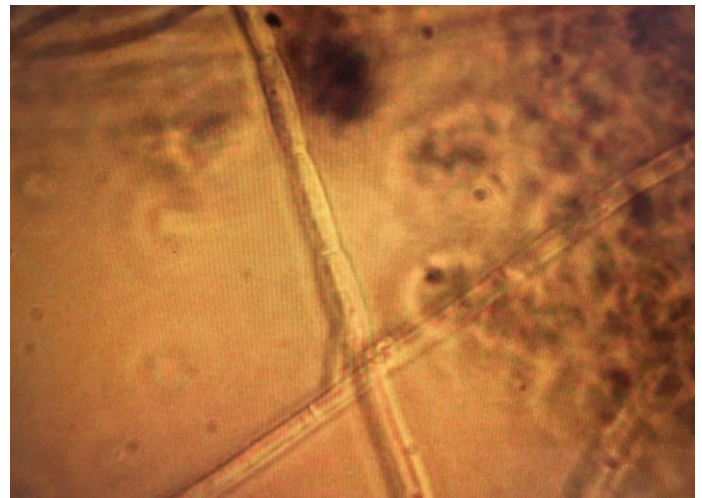
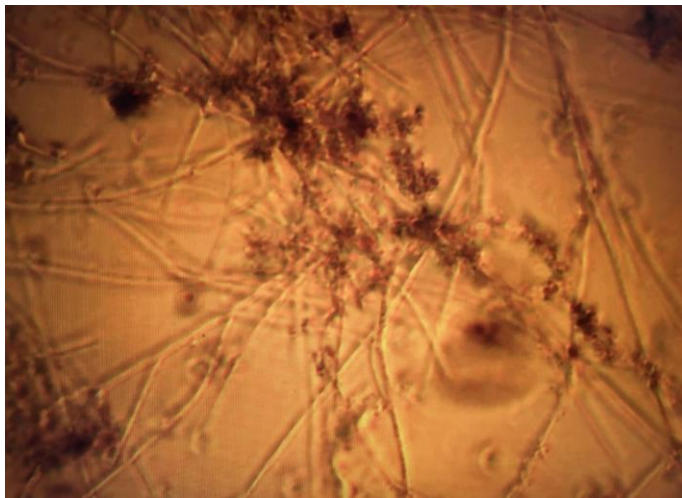
Measures taken (or intended to be taken) to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission.

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.

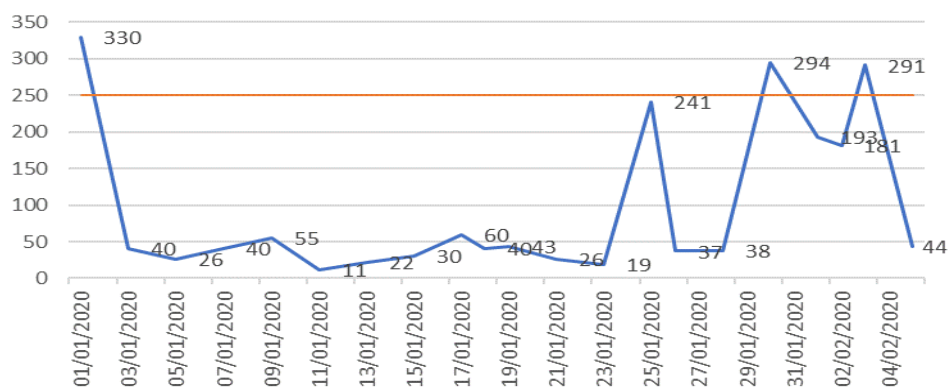
06/05/2018, 11, 12 and 13/05/2018, 21/05/2018, 28/05/2018, 13/06/2018, 28/09/2018, July/Aug 2018, July/Aug Sept 2018, Sept/Nov/Dec 2018, July/Aug/Sept/Oct/Nov 2018, 10/04/2019, 13/06/2019, 11/09/2019, July-November 2019, September – November 2019, 01/01/2020, 02/01/2020, 08/01/2020.

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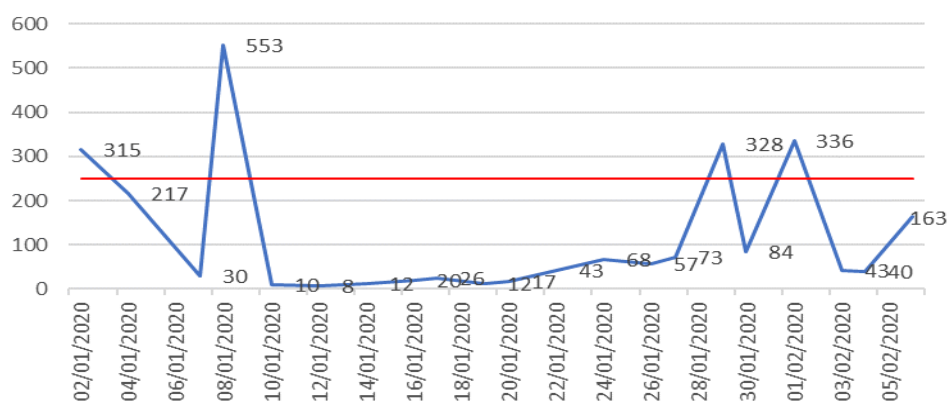


Waste water samples – Tank 1, 01/02/2020

Tank 1 discharge solid content



Tank 2 discharge solid content



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Monthly Average

