

PERMIT NUMBER BR9685IX

DOW CORNING LTD

SCHEDULE 5 INCIDENT NOTIFICATION

To:	Process Industry Inspector
FAO: Mr Tony Leakey	Natural Resources Wales Rivers House St Mellons Business Park Fortran Road St Mellons Cardiff CF3 0EY
Phone	03000 65 3000
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From: Name Of Operator Location of Process:	Judith Sartor, Environmental Specialist Dow Corning Limited Cardiff Road, Barry, Vale of Glamorgan
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Date Information Provided:	19/10/17

Part A

Permit Number	EPR/BR9685IX
Name of Operator	Dow Corning Ltd
Location of Facility	Barry, South Glamorgan, Wales
Time and Date of Detection	16/10/17

a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified immediately	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substance(s) potentially released	
Best estimate of quantities or rate of release	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident	

b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference source	W1
Parameter(s)	pH
Limit	6 - 9
Measured value and uncertainty	347 individual measured minute values below pH 6. Uncertainty +/- 4% (lower uncertainty value = pH 5.76) 0 individual minute values below pH 5.76
Date and time of monitoring	23/08/17 till 29/08/17 (25,200 individual minute values)
Measures taken, or intended to be taken, to stop the emission	As soon as calibration error identified, pH probe recalibrated by Dow Corning analyser group and pH of SWWT process increased to run at normal pH levels.

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

c) **In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:**

To be notified immediately

Description of where the effect on the environment was detected	
Substance(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B- to be submitted as soon as practicable

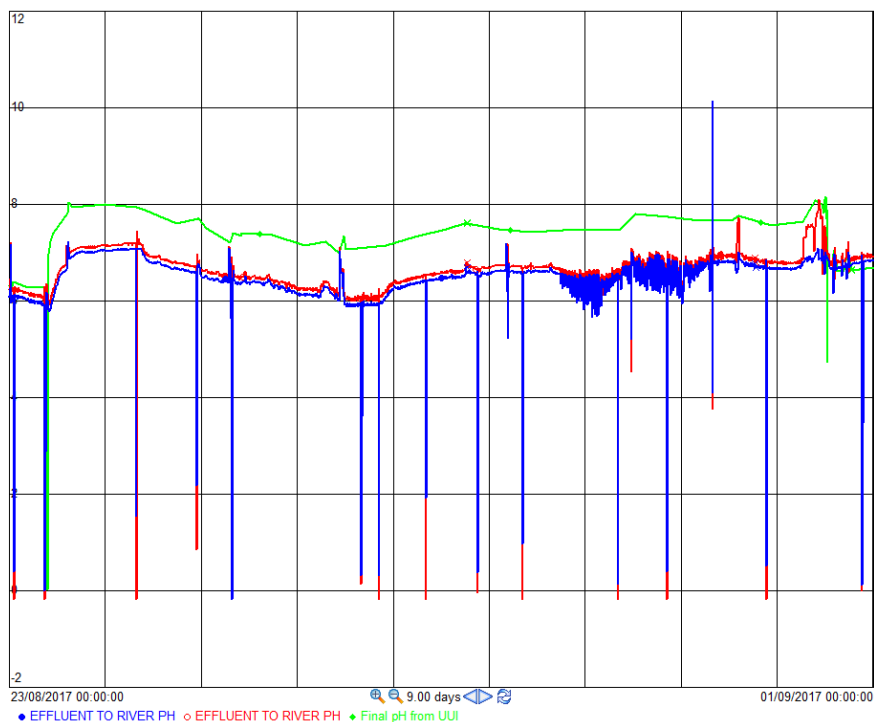
Any more information on the matters for notification under Part A

On 23rd August dropping pH levels were identified. The additive dosing system to increase the pH was brought back online, having been offline due to blockages. In addition to this the pH probes were recalibrated. The renewed additive addition had the desired effect and the pH recovered.

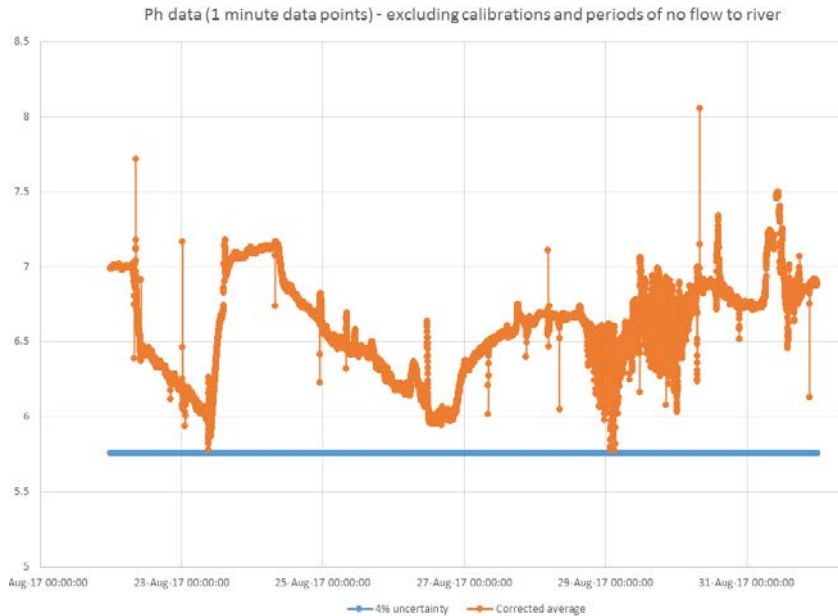
Over the next few days the Secondary Waste Water Treatment (SWWT) was controlled using the pH measurements within the SWWT process. A couple of instances during this period the pH of the final effluent to river dipped down again to around pH 6.

Investigation was carried out and it was established that the recalibration of the SWWT probes on 23rd August had been incorrect. All Primary Waste Water Treatment (PWWT) and SWWT pH probes were recalibrated by the Dow Corning analyser technicians and the pH of the process was brought back under control.

The green line in the graph below shows the period where the mis-calibrated pH probe was being used to control the SWWT process. All 3 of the lines on this graph should read similar results as they are on the same stream



The graph below shows the minute values for pH for the whole period (with recalibrations and periods of no flow to river removed) This shows that whilst the pH did dip below pH 6 at times, it was not outside of the uncertainty of the pH probe measurement.



Measure taken, or intended to be taken, to prevent a recurrence of the incident

Recalibration of all PWWT and SWWT pH probes using the same method and qualified analyser technicians. The SWWT probes have now been added to the tasks of the analyser technicians – this will take away the potential for error.

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

The impact of this incident will have been insignificant due to the small quantity of time and the deviation from the permit limit.

The dates of any unauthorised emissions from the facility in the preceding 24 months.

06/12/2016	W810 DPLB emission
06/03/2017	W949 ERU – A41 Dioxins and furans
06/07/2017	Site Cumulative MeCl (not an actual breach)
23/08/2017	W806 W1 pH – low pH to river
18/09/2017	W952 manhole
15/10/2017	W949 ERU – A41 MeCl, HCl and Cl

Name	Judith Sartor
Post	Environmental Specialist
Signature	
Date	19/10/17