PERMIT NUMBER BR9685IX
DOW CORNING LTD

SCHEDULE 5 PART A INCIDENT NOTIFICATION

This information MUST be FAXED to Natural Resources Wales at the below FAX no. within 24 hr. of an incident occurring.

Revision Date: 06 June 2006

To:	Process Industry Inspector
FAO: Mr Tony Leakey	Natural Resources Wales Rivers House St Mellons Business Park Fortran Road St Mellons Cardiff CF3 0EY
FAX No:	029 20362095
From: Name Of Operator Location of Process:	Judith Sartor Dow Corning Limited Cardiff Road, Barry, Vale of Glamorgan
FAX No:	01446-749634
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Date Information Provided:	19/09/2017

Part A

Permit Number	EPR/BR9685IX
Name of Operator	Dow Corning Ltd
Location of Facility	Barry, South Glamorgan, Wales
Time and Date of Detection	13th – 18th September 2017

a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
Date and time of event	5th September 2017
Reference or description of the location of the event	Dow Corning Ltd W952 area (51.406820, -3.242246)
Description of where any release into the environment took place	Sinkholes were found localised to a manhole on the inflow sewer to W952 chemical effluent sump. Acidic effluent is believed to have flowed out of the lined manhole as a result of high levels in W952 chemical effluent sump. The route has not yet been ascertained, further investigation, civils work and excavation is required. Preliminary investigations show that, in addition, a failure of a back flow protection flap valve has resulted in acidic effluent also flowing into an area of chemical sewer located within the CHP plant. There is evidence of damage of the manholes in this region of the site. Further excavation and camera surveys are planned to determine the full extent of the repairs required.
Substance(s) potentially released	0.5 - 1% HCl
Best estimate of quantities or rate of release	100m3 (estimate – to be confirmed)
Measures taken, or intended to be taken, to stop any emission	Levels in W952 chem sump lowered as soon as possible to reduce any further flow of effluent from potentially damaged

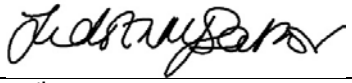
	manholes. The level instrument in W952 chemical sump has also been recalibrated to reduce the levels at which the chemical effluent sump is operated. The acidic effluent was 1% Hydrochloric acid which has a low pH and is known to cause a pH imbalance in soils, but this would be neutralised by dissolving the limestone chippings and with rain water contact over a fairly short period of time and no long term environmental damage is deemed to have occurred as a result of the manhole leak.
Description of the failure or accident	A nozzle on transfer tank between W952 chemical effluent sump and the effluent storage tank failed during a routine cleaning operation. As a result of this, the level in W952 chemical effluent sump and the surrounding chemical sewers rose, as it was unable to be pumped away. An alternative pumping system from W952 chemical effluent sump to the effluent collection tank was set up. Initially we were unaware that acidic effluent had been released to the ground from the manhole, but subsequent sinkholes identified this. A full root cause investigation has been initiated.

b) Notification requirements for the breach of a limit	
Emission point reference source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

c) Notification requirements for the detection of any significant adverse environmental effect, to be notified within 24 hours.	
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	
Measure taken, or intended to be taken, to prevent a recurrence of the incident	
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 dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name	**Judith Sartor**
Post	**Environmental Specialist**
Signature	
Date	**19th September 2017**