

	HYDROGEN PLANT LLANWERN FACILITY	PAGE 1 of 1
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SCHEDULE 1

Operator	Air Products (BR) Ltd
Location	Hydrogen Plant, Llanwern
Permit Number	BL2459

Form S3/W (12/03/02)			
Release point	Substance	Measured	Limit
W1	Suspended solids (mg l ⁻¹)	2	100
	Oil and grease (mg l ⁻¹)	<1	5
	pH maximum	4.60	10
	pH minimum	4.60	5

Date sampled: 09 11 2017.

Part A

Regarding the sample taken on our waste water effluent outfall on 09 11 2017 I would like to report a breach in our permit limits regarding the PH concentration. The limits for our PH concentration are between 5 and 10, we reported a concentration of 4.6. This was a one-off sample so we do not know the exact timing or duration of our emission. It has been entered into our event management system to record this event as an environmental incident.

Our effluent outfall is passed into the Tata Steel waste water system via our pumping system.

We have curtailed our emissions and have flushed with demineralised water we are currently running at a PH of 6.2.

Part B

The sample in question was taken on 09 11 2017.

The effluent outlet stream is a mixture of demineralised water/boiler blowdown and condensate from our process. We have analysed all these streams separately and found the condensate from our process to be running at low PH. We are currently curtailing this stream and, the PH of our effluent outfall today is 6.2.

We have been in contact with our water treatment provider and we intend to recycle this process condensate back to our boiler system. They are coming to site next week to analyse this condensate and advise us of any necessary precautions/treatment we will need to make before we add it to the system. We hope to complete this work within the next two weeks.

In the meantime, we will analyse locally our water outfall on a daily basis.

A handwritten signature in black ink that reads "T C Ryan". The letters are cursive and connected, with a stylized flourish at the end of the word "Ryan".

T C Ryan.
Plant Manager