

# Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	EPR/BL1096IB/V014
Name of operator	Castle Cement Limited
Location of Facility	Padeswood Works, Padeswood, Mold.
Time and date of the detection	13:30 21/02/2018

(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 the event	13:30 21/02/2018
Reference or description of the location of the event	Discharge of water containing coal fines into the local water course surrounding the coal shed.
Description of where any release into the environment took place	Water containing coal fines was released into the brook which runs around the east of the site.
Substances(s) potentially released	Coal fines
Best estimate of the quantity or rate of release of substances	Approximately 1.5 hours release of water, circa 60m3.  The water sample collected indicated suspended solids of 1.2g/L which equates to a discharge of approximately 77kg of coal in to the water course during this period.
Measures taken, or intended to be taken, to stop any emission	The pump which was being used to discharge water into the brook has been stopped. All further discharges are taking place into the site surface water drainage system which will pass through the lagoon abatement system.  The contractor in question has been informed that this system of managing water is not acceptable.  Investigation into the drainage & flooding in this area is already underway.
Description of the failure or Accident.	The pumps which brought the water from the local borehole to the site were running in manual and not automatic and due to this the holding tank was overflowing in to the SW system.  This overflow was overwhelming the local SW system. This caused localised flooding in the area of the coal yard.  To try to remedy this issue a contractor had used a pump to overpump the excess water from the coal yard into the brook surrounding the coal shed. The over pumping in this way effectively bypassing the site drainage system abatement systems.  The water from the flooding in the coal yard contained a proportion of coal fines which were transferred to the brook.  Time frame

	<p>1200-130pm. The pump was running from the coal yard into the brook</p> <p>1.30pm On a site walk around by the shift manager noticed a drain overflowing in the vicinity of the water tank and found the borehole pumps were operating in manual. These were then stopped.</p> <p>1.35pm The unusual pump arrangement from the coal yard to the brook was discovered by the shift manager who subsequently turned off the pump.</p> <p>1.35-2.00pm The shift manager and environmental manager walked down to W1 discharge location and took two samples of the brook water.</p> <p>2.30pm – Water samples prepared by the lab for analysis</p> <p>3.30pm – Discussion with NRW about the breach</p> <p>4.00pm A second inspection of the brook showed it to be clean and in normal condition</p> <p>4.30pm results of sample analysis available.</p> <p>7.pm – A further water sample will be collected to demonstrate return to typical conditions.</p>
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<b>(b) Notification requirements for the breach of a permit condition</b>	
<b>To be notified immediately</b>	
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	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(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:</b>	
<b>To be notified immediately</b>	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

## Part B - to be submitted as soon as practicable

<p>Any more accurate information on the matters for notification under Part A.</p>	<p>The excess rain in the recent days had caused a pooling of water In the yard surrounding the coal shed.</p> <p>There are two ways for surface water to be removed from this area.</p> <p>The water from the coal yard floor should be removed by the site SW drainage system.</p> <p>Water from the roof of the building falls into surface water run off ditch which on site is termed "the foundry drain" which passes through two limestone filters.</p> <p>Neither of these systems were able to remove sufficient water from the recent heavy rain periods and this led to a flooding in the coal year area.</p> <p>A root cause analysis was carried out on the incident and found four root causes</p> <ul style="list-style-type: none"> <li>• Failure of the drainage in the area to remove water via the site SW drainage system</li> <li>• Lack of control of contractors and contractor environmental training</li> <li>• Sediment build up in the foundry drain around the north side of coal shed stopped the ditch effectively removing surface water. and caused it to pool at the coal stock yard end</li> <li>• Reduced capacity in SW drainage system upstream of the coal shed.</li> </ul>
<p>Measures taken, or intended to be taken, to prevent a recurrence of the incident</p>	<p>In order to overcome each of the four root causes identified above the following measures are currently being implemented</p> <p>The site has tasked a civil engineering contractor with investigating the failings of the SW drainage system in the coal area court yard. This will involve excavating and inspecting the current drainage and repairing and where this is not possible replacing the drainage around the coal yard.</p> <p>Additional Environmental training is being designed for all contractors and shop floor workers to ensure they can understand the impact of their activities on the environmental permit. Focussing on the pollution of air, ground &amp; water. The contractors in question have been spoken to about the incident and a further risk assessment for the pumping of water from this area is being designed.</p> <p>The foundry drain which runs around the back of the coal shed is having the excess sediment removed from the northern side. This will allow some of the SW runoff to flow around the foundry drain and not pool at the coal yard end. This will be achieved by ensuring there is a drop in height throughout the foundry drain.</p> <p>A systematic review of the site surface water drainage system will be carried out by drainage contractors. This will be firstly to survey the current drainage condition and identify areas for improvement. This will initially focus on</p>

	the area upstream of the coal shed.
Measures 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.	26/08/2016 24/11/2016 03/02/2017 30/03/2017 21/04/2017 08/05/2017 24/07/2017 14/08/2017 27/09/2017 28/09/2017 19/10/2017 23/10/2017 03/11/2017 04/11/2017 13/12/2017 21/12/2017 14/01/2018 21/02/2018

<b>Name*</b>	Robert Keough
<b>Post</b>	Q&E Manager
<b>Signature</b>	Robert Keough
<b>Date</b>	04-05-18

\* authorised to sign on behalf of the operator