

Schedule 5 Notification

PART B

Permit Number:	BR9715IB
Name of Operator:	Solutia UK Ltd
Location of Installation:	Corporation Road, Newport, Gwent, NP194XF
Location of the emission:	Effluent recirculation pipeline, 'W1' Effluent, in the utilities area.
Time and date of the emission:	29 th August 2023

Any more accurate information on the matters for notification under Part A	On the 21st of July, a small intermittent drip and wet lagging was identified on the carbon steel effluent recirculation pipeline near the effluent pump house. This line is a kick back to the effluent lagoon from the effluent discharge line to allow the effluent pump to keep running whilst the effluent discharge valve is closed. A flange was tightened, and this was thought to have stopped the leak at the time. On Tuesday 29th August, at about 0900, the lagging was removed to check the pipe as there was still evidence of wet lagging. The effluent was discharging at the time which reduces the pressure on the effluent recirculation line. At this point, a small leak was identified on a weld, the leak was a drip. When the effluent ceased discharging (discharge valve closed) the leak was more significant as there is more pressure on the discharge line. The discharge is automated, so no one was in the area. A leak of <100 l/hr occurred for approximately 2 hours before the leak was identified and stopped. Less than 200l was released into a non-bunded area. The lagging may have held back a more significant leak or disturbing the leak area may be the cause of the more significant release. The leak rate was calculated from the hole size and the max pressure on the recirculation line, so this is worst case. The leak consists of W1 effluent. The line could not be fixed immediately so controls were put in to reduce the leak, the effluent pump was stopped between effluent discharges to reduce the pressure on the recirculation line, this reduced the leak to a drip. On the 30th of August, a weld repair was completed, this significantly reduced the leak but did not fully stop the leak:
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	• During recirculation (pump running and effluent discharge valve closed) the leak is a drip • During effluent discharge there is no leak The controls remain in place (stopping the pump when not discharging the effluent) so there is currently no leak. On Monday 11th September, the failed section of line will be replaced, stainless steel is being used (replacing carbon steel). The section of line is currently being manufactured and we are restricted on the install by the effluent discharge windows. The main effluent line is under the preventative maintenance plan (visual and thickness testing), the recirculation line is not part of the PM program.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	• Weld repair and pumping restrictions as described above. • The section of line will be replaced with stainless steel on Monday 11th September. Stainless steel is a more robust material and will not corrode. • The remaining parts of the effluent recirculation line which are carbon steel will be replaced with stainless steel. • All the utility effluent lines around the effluent treatment will be visually inspected. If required, PMs will be installed, and piping will be replaced. The main effluent line will not be considered as this is already part of a preventative maintenance program.
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	None proposed
The dates of any unauthorised emissions from the installation in the preceding 24 months	29/08/2023- Effluent Circulation Pipeline Leak [This Notification] 06/02/2023 - Dequest Amino 24/11/2022 - Effluent Cease Discharge 14/07/2022 - Effluent Hg 07/03/2022 - Biphenyl Tanker 30/09/2021 - Effluent Cease Discharge 09/09/2021 - Offsite Effluent Pipeline

*** Signed:**

A handwritten signature in black ink, appearing to read 'D. Rudd', with a long horizontal stroke extending to the right.

David Rudd

Date: 7th September 2023

* authorised to sign on behalf of Solutia UK Ltd