Schedule 5 - Notification

Part A

Permit Number	LP3439HM
Name of Operator	Castle Waste Services Ltd
Location of Facility	Roath Docks, Cardiff
Time and date of the detection	See Appendix

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affect the environment	
To be notified within 24 hours of detection	
Date and time of event	N/A
Reference or description of the location of the event	N/A
Description of where any release into the environment took place	N/A
Substances potentially released	N/A
Best estimate of the quantity or rate of releases of substance	N/A
Measures taken, or intended to be taken, to stop any emission	N/A
Description of the failure or accident	N/A

(b) Notification requirements for the breach of a permit condition
To be notified within 24 hours of detection

Emission point reference / source	S1
Parameter	See Appendix
Limit	See Appendix
Measured value and uncertainty	
Date and time of monitoring	Quarter 2 2023
Measures taken, or intended to be taken, to stop any emission	Compliance with BAT-AELs is subject to an improvement condition. Compliance dates have been agreed with NRW.
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 immediate significant effect on the environment.	
To be notified within 24 hours of detection	
Date and time of event	N/A
Reference or description of the location of the event	N/A
Description of where any release into the environment took place	N/A
Substances potentially released	N/A

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A	Investigation into analytical techniques is ongoing. Determinants included within this are heavy metals and AOX.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Compliance with BAT-AELs is subject to an improvement condition. Compliance dates have been agreed with NRW.
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.	N/A
The dates of any unauthorised emissions from the facility in the preceding 24 months.	None

Name	[redacted]
Post	Director
Signature	
Date	27 July 2023

27 July 2023
[redacted]

Appendix 1 - Schedule 5 Notification

Parameter	Limit	Result(s)	Date(s)	Actions
AOX	1.0 mg/l	2.38 mg/l 2.16mg/l	15/05/23 17/05/23	The number of issues with AOX has reduced over the month. Castle continue to dual source AOX analysis as part of the ongoing investigation
Chromium (total)	0.3 mg/l	1.82 mg/l 1.21 mg/l	13/04/23 24/05/23	Note that total chromium reported by Atomic Absorption Spectroscopy (AAS) is often higher than third party ICP-MS (superior technique). Over period 0/7 samples exceeded BAT-AELs when tested by ICP-MS. Castle have started an investigation to analyze all discharge samples using external ICP-MS technique for a fixed period of time.
Nickel	1 mg/l	1.61 mg/l 1.28 mg/l	16/05/23 18/05/23	Noted that total nickel reported by Atomic Absorption Spectroscopy (AAS) is often higher than third party ICP-MS (superior technique). Over period 0/7 samples exceeded BAT-AELs when tested by ICP-MS. Castle have started an investigation to analyze all discharge samples using external ICP-MS technique for a fixed period of time.
Lead	0.3 mg/l	0.36 mg/l	11/05/23	Note that total lead reported by Atomic Absorption Spectroscopy (AAS) is often higher than third party ICP-MS

27 July 2023
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		0.55 mg/l 0.55 mg/l 0.44 mg/l 0.34 mg/l 0.66 mg/l 0.38 mg/l 0.41 mg/l 0.58 mg/l 0.45 mg/l 0.76 mg/l	15/05/23 16/05/23 19/05/23 22/05/23 24/05/23 26/05/23 30/05/23 31/05/23 02/06/23 05/06/23	(superior technique). Over period 0/7 samples exceeded BAT-AELs when tested by ICP-MS. Castle have started an investigation to analyze all discharge samples using external ICP-MS technique for a fixed period of time.
Hexavalent chromium (Cr(VI))	0.1 mg/l	0.121 mg/l 0.122 mg/l 0.217 mg/l	13/04/23 14/06/23 29/06/23	Note that Cr(VI) concentrations are in excess to total chromium as detected by internal AAS analysis and third party ICP-MS. All corresponding total chromium concentrations are below the BAT-AEL for Cr(VI).