

Schedule 5 - Notification

TIR0228 05/01/2023

Part A

Permit Number	VP3935AT																																																																																																
Name of Operator	Enovert South Ltd																																																																																																
Location of Installation	Tir John Landfill, Wern Terrace, Off Fabian Way, Swansea, SA1 8PA																																																																																																
Time and date of the detection	Q4 2022																																																																																																
(b) Notification requirements for the breach of a limit (within 24 hours unless otherwise agreed)																																																																																																	
Emission point reference/ source	Ammoniacal-N as N mg/l: <table><tr><th rowspan="2">ID</th><th rowspan="2">Date</th><th colspan="2">Ammoniacal-N (mg/l)</th></tr><tr><th>Result</th><th>Limit</th></tr><tr><td>GDW05</td><td>12/10/2022</td><td>26</td><td>25</td></tr><tr><td>GDW07</td><td>12/10/2022</td><td>26</td><td>15</td></tr><tr><td>GDW09</td><td>12/10/2022</td><td>26</td><td>16</td></tr><tr><td>GDW18</td><td>12/10/2022</td><td>9.6</td><td>5</td></tr></table> Zinc mg/l: <table><tr><th rowspan="2">ID</th><th rowspan="2">Date</th><th colspan="2">Zinc (mg/l)</th></tr><tr><th>Result</th><th>Limit</th></tr><tr><td>GDW04</td><td>12/10/2022</td><td>0.083</td><td>0.075</td></tr></table> Ortho Phosphate as PO4 mg/l: <table><tr><th rowspan="2">ID</th><th rowspan="2">Date</th><th colspan="2">Phosphate (mg/l)</th></tr><tr><th>Result</th><th>Limit</th></tr><tr><td>GDW04</td><td>12/10/2022</td><td>0.14</td><td>0.05</td></tr><tr><td>GDW05</td><td>12/10/2022</td><td>4.8</td><td>0.05</td></tr><tr><td>GDW06</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW07</td><td>12/10/2022</td><td>1.5</td><td>0.05</td></tr><tr><td>GDW08</td><td>12/10/2022</td><td>0.5</td><td>0.05</td></tr><tr><td>GDW09</td><td>12/10/2022</td><td>2.6</td><td>0.05</td></tr><tr><td>GDW10</td><td>12/10/2022</td><td>0.14</td><td>0.05</td></tr><tr><td>GDW11</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW12</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW14R</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW15R</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW16</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW17</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr><tr><td>GDW18</td><td>12/10/2022</td><td>< 0.062</td><td>0.05</td></tr></table>			ID	Date	Ammoniacal-N (mg/l)		Result	Limit	GDW05	12/10/2022	26	25	GDW07	12/10/2022	26	15	GDW09	12/10/2022	26	16	GDW18	12/10/2022	9.6	5	ID	Date	Zinc (mg/l)		Result	Limit	GDW04	12/10/2022	0.083	0.075	ID	Date	Phosphate (mg/l)		Result	Limit	GDW04	12/10/2022	0.14	0.05	GDW05	12/10/2022	4.8	0.05	GDW06	12/10/2022	< 0.062	0.05	GDW07	12/10/2022	1.5	0.05	GDW08	12/10/2022	0.5	0.05	GDW09	12/10/2022	2.6	0.05	GDW10	12/10/2022	0.14	0.05	GDW11	12/10/2022	< 0.062	0.05	GDW12	12/10/2022	< 0.062	0.05	GDW14R	12/10/2022	< 0.062	0.05	GDW15R	12/10/2022	< 0.062	0.05	GDW16	12/10/2022	< 0.062	0.05	GDW17	12/10/2022	< 0.062	0.05	GDW18	12/10/2022	< 0.062	0.05
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Measured value and uncertainty																																																																																																	
Date and time of monitoring																																																																																																	
Measures taken, or intended to be taken, to stop the emission	Not applicable as there is no indication of any emission from the site occurring.																																																																																																

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	We switched to a new accredited laboratory in January 2021 and the permit limits set for Orthophosphate are lower than the laboratory can reach using accredited analytical methods, therefore many of the results are less than the limit of detection.
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	Historical breaches of Orthophosphate have primarily occurred in the boreholes on the Northern perimeter of the Tir-John site. We are planning to review the limits set on orthophosphate in the next permit variation application. The ammonia breach at GDW05 is slightly unusual but has precedent, with the last breach being January 2016 however the breach is minor especially when the laboratory limits of uncertainty is taken into consideration. The ammonia breach at GDW09 is very unusual, with the last breach being October 2015, and chloride remains low, indicating that this is unlikely to be leachate seepage, more likely to be due to analytical interference. The ammonia trends at GDW18 and GDW07 are discussed at length in the 2022 Annual Report and 2018 HRA Review, and chloride remains low, indicating that this is unlikely to be leachate seepage and more likely attributed to the recharge from waters originating in the Crymlyn Bog. The Zinc breach at GDW04 is minor and falls within the laboratory limits of uncertainty so this is not a breach when this is taken into account.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Not applicable as the results do not indicate a pollution incident. If this was the case, we would expect to see increases across a whole range of parameters.
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	To summarise, there is no evidence that any pollution has been caused by the landfill, and all evidence points towards these limit exceedances having been caused by natural background variation or analytical interference.
The dates of any unauthorised emissions from the installation in the preceding 24 months.	See previous notifications.
Name*	Elizabeth Forrest
Post	Environmental Data Analyst
Date	05/01/2023

* authorised to sign on behalf of Enovert South Ltd