

Licence Alteration Request

Alteration Details	
Licence	W0021-02 Derrinumbera Landfill Facility
Licensee	Mayo County Council
Title of Alteration	Derrinumbera - Integrated Constructed Wetland

Screening Report

No.	Question	Answer
1	Does the proposed alteration require a new class of activity or process?	No
2	Does the proposed alteration cause a new / additional main emission point?	Yes
3	Does the proposed alteration increase the total specified emissions for any emission parameter? significantly ?	No
4	Does the proposed alteration increase significantly the overall total emission from the installation/facility?	No
5	Does the proposed alteration involve development or proposed development that has already been granted planning permission or requires a grant of planning permission and was/is subject to EIA by the Planning Authority or An Bord Pleanála?	No
6	Did the proposed alteration require the preparation of a Natura Impact Statement (NIS) for consideration by any Planning or Public Authority?	No
7	Does the proposed alteration indicate that the EPA should conduct an Appropriate Assessment (on foot of a screening for Appropriate Assessment)?	Yes
8	Does the proposed change conflict with BAT as set out in the relevant BAT Conclusions? See here	No
9	Does the proposed alteration adversely affect the energy efficiency of the installation/facility?	No
10	Does the proposed alteration adversely affect the environmental risk of the installation/facility significantly ?	No

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11	Does the proposed alteration cause an increase above the capacity limitations specified in the licence?	No
12	Does the proposed alteration require an extension of operating hours (where controlled by the licence) for an installation/facility where the public is likely to have an interest in such an extension?	No
13	Does the proposed alteration involve the incineration or co-incineration of waste materials displaying hazardous properties that were not previously authorised (as per the WID/IED)?	No
14	Does the proposed alteration introduce materials or techniques which adversely alter the probability, magnitude and duration or complexity of the site transboundary impact?	No
15	Does the proposed alteration constitute a substantial change?	No
16	Does the proposed alteration regularise an on-going breach of a licence condition?	No
17	Does the proposed alteration require a change to a condition or schedule of the Licence?	Yes

Recommendation

Based on your responses to the forgoing questions the recommended option is for you to submit a 'Licence Review' application for this proposed alteration.

To progress this request you are required to go to the EPA website (www.epa.ie), complete the relevant Licence Application Form and follow the licensing application process. The application should be submitted to the EPA as specified in the licence application form or any associated instructions for applicants.

Recommendation Date: 08/08/2023

Clerical or Technical Amendment Application Details

Proposed Alteration Description

The installation of an Integrated Constructed Wetland within the existing site boundary, to treat leachate and contaminated groundwater to an acceptable standard prior to discharge to surface water. This would provide a more robust method of treating leachate generated, no longer requiring tankering by road tanker to a WWTP. There would also be significant reduction in fossil fuel use associated with the road tankers.

Priority	1. Routine
Category of Amendment	(b) Facilitating the doing of any thing pursuant to a condition attached to the licence where the doing of that thing may reasonably be regarded as having been contemplated by the terms of the condition or the terms of the licence taken as a whole but which was not expressly provided for in the condition

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Licence Condition Changes		
Condition / Schedule Reference	Current Condition / Schedule Wording	Suggested New Wording
4.23.5	4.23.5 The licensee may treat and/or store leachate, as agreed by the Agency, prior to off-site disposal taking account of the prohibition on discharge to the Glaishty River in Condition 7.7.	3.17 Constructed Wetland System 3.17.1 Constructed wetland system shall be maintained according to industry best practice and the operation shall have regard to any national guidance. 3.17.2 The licensee shall, within 24 months of the date of grant of this licence, establish trigger levels for removal of sediment from the wetland ponds based on monitoring required in Schedule C.2.1 Control of Emissions to water, of this licence.
4.25	4.25 No works shall be undertaken within 50m of the possible burial mound identified as Site D in attachment C3 of the application, unless agreed by the Agency subsequent to pre-testing by a qualified archaeologist, under licence from the Heritage Service in the Department of Arts, Heritage, Gaeltacht and the Islands.	Remove this condition as archaeological investigation has ruled out location as a burial mound.
7.6.1	7.6.1 Emissions to surface water from the facility shall only be made to the Glaishty River at the location designated by emission point reference number EF-02 shown on Drawing No. 002034/1 U612 Revision C "General Arrangement of Site Area".	7.6.1 Emission point to surface water to be agreed with the Agency
7.7	7.7 Disposal of Leachate 7.7.1. Leachate shall not be discharged to the Glaishty River. 7.7.2. Unless otherwise agreed in advance by the Agency, leachate shall be removed from the facility for treatment at the Castlebar Sewerage Treatment Works.	Remove condition 7.7 and include a response in Emergency Response Procedure to address emergency use of road haulage for leachate removal from the site, post ICW commissioning.

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<p style="text-align: center;">Condition 7.6</p>	<p style="text-align: center;">7.6 Emissions to Surface Water</p> <p>7.6.2. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.</p>	<p>7.6.2 Emission limit values for emissions to waters in this licence shall be achieved without the introduction of dilution and shall be interpreted in the following way:</p> <p>7.6.2.1 Continuous monitoring</p> <p>(i) No flow value shall exceed the specific limit.</p> <p>(ii) No pH value shall deviate from the specified range</p> <p>(iii) No temperature value shall exceed the limit value.</p> <p>7.6.2.2 Composite sampling</p> <p>(i) No pH value shall deviate from the specified range.</p> <p>(ii) For parameters other than pH and flow eight of ten consecutive composite results based on flow proportional composite sampling shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value.</p> <p>7.6.2.3 Discrete sampling</p> <p>For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.</p>
<p style="text-align: center;">Condition 9</p>	<p>9.7 The licensee shall comply with the programme for the monitoring of leachate to be removed from site, in accordance with the proposal agreed by the Agency.</p>	<p>6.1 Test programme for Constructed Wetlands</p> <p>6.1.1 The licensee shall prepare, to the satisfaction of the Agency, a test programme for the operation of the constructed wetland system. This programme shall be submitted to the Agency prior to the commencement of discharge of treated leachate from the constructed wetland. The criteria for the operation of the constructed as determined by the test programme shall be incorporated into the standard operating procedures and Schedule C.2.1: Control of Emissions to Water, of this licence.</p> <p>6.1.2 The licensee shall ensure such that each integrated constructed wetland system is performing as designed and to specification. The licensee shall investigate the causes for any unexpected increase in the concentration of any parameter across each integrated constructed wetland system. The report on any investigation and execution of remedial measures shall be submitted as part of the AER.</p> <p>6.1.3 A report on the test programme shall be submitted to the</p>

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<p style="text-align: center;">Schedules</p>	<p style="text-align: center;">No schedule in current licence</p>	<p>Schedule B.2 Emission point reference number D1 Name of receiving water: Glaishty river. Location: 53.88633324274592, -9.449588439350114 (Final location to be agreed)</p> <p>Volume to be emitted: Maximum in any one day 110 m³</p> <p>Parameter Emission Limit Value Temperature 25 degrees C (max) pH 6-9 BOD 25 mg/l COD 125 mg/l Suspended Solids 25mg/l Ammonia (as N) 3mg/l Orthophosphate (as P) 2mg/l</p> <p>Phenols 46 µg/l Metals (Cd, Zn, Cu, CR, Pb, Hg, Ni) Cadmium 0.08 µg/l Chromium 50 µg/l Copper 5 µg/l Lead 1.2 µg/l Zinc 8 µg/l Nickel 4 µg/l Mercury 0.07 µg/l</p>
<p style="text-align: center;">Schedules</p>	<p style="text-align: center;">No schedule for emissions to surface water in current licence</p>	<p>C.2.1 Control of Emissions to Water Constructed Wetlands Emission Point reference No: D1 Emission Control Location: Constructed Wetland Ponds Description of Treatment: Constructed Wetland Ponds Control Parameter Monitoring Key equipment 1 Flow and flow patterns Continuous for discharge flow and flow between ponds and in willow bed, Daily visual inspection for flow and flow patterns in the ponds and willow bed. Flow regulators Flow meters Shut off valve at discharge Pond isolation valves Bank inspection, water depth, turbidity in final segments. Weekly Visual inspection and appropriate measuring equipment Sediment depth, vegetation and invertebrate monitoring Quarterly Visual inspection and appropriate measuring equipment Sediment composition: heavy metals Annually for two year, and once every three years thereafter. Prior to sediment removal Note 1. Appropriate sampling equipment Note 1. The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of</p>

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Questions

Q1	Is planning permission required to support the proposed alteration?	No
Q2	Does the application involve an installation boundary change?	No
Q3	Does the application involve changes to emissions to sewer?	No
Q4	Attach Appropriate Assessment Screening Report here	B1853-BLP-R-ENV-03-01_Part 3.pdf

Additional Documentation

B1853-BLP-R-ENV-03-01_Part 1.pdf
B1853-BLP-R-ENV-03-01_Part 2.pdf
Cover letter DoS.pdf
ScreeningReport.pdf

Final Declaration

Name	Killian Farrell
Position	Senior executive scientist

Application Details

Selected by:	Killian Farrell	Selected date:	08/08/2023
Submitted by:	Killian Farrell	Submitted date:	18/09/2023