



Environmental Protection Agency
An tSeirbhís Náisiúnta do Chaomnú Comhshluaí

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Mr. Ray Mannix
Senior Engineer
Waterford City Council
Wallace House
Maritana Gate
Canada Street
Waterford

15th August 2008

W0244-01

re: Notice in accordance with Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations

Dear Mr Mannix,

I am to refer to the above referenced application for a waste licence relating to a facility at Waterford City Waste Water Treatment Plant, Springfield House, Gorteens, Co. Kilkenny. Having examined the documentation submitted, I am to advise that the Agency is of the view that the documentation does not comply with Article 12 and Article 13 of the Waste Management (Licensing) Regulations.

You are therefore requested, in accordance with Article 14(2)(b)(ii) of the regulations, to take the steps and supply the information detailed below:

ARTICLE 12 COMPLIANCE REQUIREMENTS

1. **Section C: Management:** Provide further details, including the number of staff on site, the hours the facility is to be manned, i.e. other than security, and details of any contingency arrangements.
2. **Section D.1: Infrastructure:** Provide further details on site infrastructure including appropriately scaled labelled drawings (no larger than A3) for:
 - a. Overall site layout (A3) showing all process areas;
 - b. Primary and secondary treatment; plant and infrastructure;
 - c. Works Inlet building internal layout details;
 - d. Sludge building internal layout details;
 - e. Sludge treatment area: tanks, digesters, pasteurisation system, heat exchangers;
 - f. Wastewater drainage infrastructure including pipework, pumps, routes of wastewater, sludges, liquor returns;
 - g. Surface water site drainage incl. location of SW-01, sampling location, interceptors, trunk pipe;
 - h. Odour Control Units, processes and areas served, pipework; and open tanks.
 - i. Biogas storage, collection system and pipework, and waste burner;
 - j. Location of boiler emission points;
 - k. Provide further details of bunded areas and tanks;



3. Section D.2: Operation & Section F Treatment, Abatement and Control Systems

- a. For the Wastewater Treatment process, provide the following details:
 - i. For each process step provide details of capacity and design criteria;
 - ii. Provide details on influent monitoring, composite samplers, and in-treatment monitoring required for management of the plant;
 - iii. Provide further details of sludge returns (SAS and RAS) including volume, removal rates, characteristics and controls;
 - iv. Provide details of return liquors including sources, volume, characteristics, (including BOD load), return rates and controls. Provide details of the maximum volume and load to be returned to the WWTP.
- b. For the Sludge Treatment process (sludge tanks, pasteurisation, AD) provide:
 - i. Technical design specifications and operational details for each stage.
 - ii. Describe in more detail the AD process, operating conditions, throughput, retention time, heating, mixing and cooling systems, quantities and characteristics of input and outputs, handling of digested sludge, and outputs other than digested sludge and biogas.
 - iii. Provide further details on Biogas collection, storage and method of transfer. Provide details of any scrubbing, or moisture removal and details of the flare including location, design, temperature, and residence time.
- c. For the Odour Handling Units provide further details including a list of air streams extracted, characteristics of extracted air, controls for emissions of methane. Describe any other odour abatement measures. Describe any proposed controls for pathogens.
- d. Provide further details of process abatement and control for each stage of the wastewater treatment process, sludge treatment (sludge tanks, AD, biogas) and Odour Control Units. Submit Table F.1 for each stage.
 - i. Include details of the capacity, throughput and treatment efficiency, and waste products for each stage.
 - ii. Include details of in-tank monitoring and control systems.
 - iii. Control parameters could include BOD, COD, MLSS, DO, F/M ratio for the WWTP; and temperature, pH, sludge volume, levels, solids content etc. for the Anaerobic Digesters.
 - iv. For each item of control equipment provide details of maintenance and calibration.
- e. Compare the abatement, treatment or recovery system with BAT Standards.
- f. Provide design details for the discharge outfall, and details of diffusers etc.
- g. Provide details of final effluent wash water, including uses and volumes.

4. Section E.1: Emissions to Air

- a. Provide the thermal input (MW) of the boilers and capacity of the generator.
- b. Complete Table E.1 (v) for fugitive emissions from the facility.
- c. Provide further details on potential odour sources; skips, uncovered tanks, Screening and grit skips, grease removal, any other transfer operations, release valves, sumps etc.



5. **Section E.2: Surface water**
 - a. Clarify receiving waters for SW-01 and location of discharge.
 - b. Resubmit a completed Table E2(ii) for SW-02.

6. **Section I.5: Ground and/or groundwater contamination:** Provide a brief development and operational history of the site.

ARTICLE 13 COMPLIANCE REQUIREMENTS

7. For the Environmental Impact Assessment Update, provide copies of the individual reports prepared by specialist sub consultants.

8. Clarify the population equivalent details for which the impacts were assessed.

9. Provide additional details on the mitigation measures to avoid, reduce and if possible remedy significant adverse effects due to odours. Clarify whether the odour baseline assessment data was incorporated into the odour dispersion model.

10. Provide a map showing the WWTP site boundary and the cSAC site boundary.

Your reply to this notice should include a revised non-technical summary (Application Form and EIS) which reflects the information you supply in compliance with the notice, insofar as that information impinges on the non-technical summary.

In the case where any drawings already submitted are subject to revision consequent on this request, a revised drawing should be prepared in each case. It is not sufficient to annotate the original drawing with a textual correction. Where such revised drawings are submitted, provide a list of drawing titles, drawing numbers and revision status, which correlates the revised drawings with the superseded versions.

Please supply the information in the form of a one original plus two copies within **five weeks** of the date of this notice. In addition submit sixteen copies of the requested information to the Agency in electronic searchable PDF format on CD-ROM. Please note that all maps/drawings should not exceed A3 in size.

Please note that the application's register number is **W0244-01**. Please direct all correspondence in relation to this matter to Administration, *Licensing Unit, Office of Climate, Licensing & Resource Use, Environmental Protection Agency, Headquarters, PO Box 3000, Johnstown Castle Estate, County Wexford* quoting the register number.

Yours sincerely,

A handwritten signature in cursive script, reading 'Marian Doyle', is written over a horizontal line.

Marian Doyle
Inspector
Office of Climate, Licensing & Resource Use