

CORK COUNTY COUNCIL

**LOCAL GOVERNMENT (WATER POLLUTION) ACTS 1977 AND
1990**

Licence to discharge Trade Effluent or Sewage Effluent to Waters

Reference **TO / Fota Wildlife Park**
No. In **Foaty**
WP(W)14/09 **Carrigtwohill**
Co Cork

732

The Council of the County of Cork, in exercise of the powers conferred on it by the Local Government (Water Pollution) Acts, 1977 and 1990, as amended, hereby **GRANTS** a Licence, Reference Number WP(W)14/09

To **Fota Wildlife Park**
Foaty
Carrigtwohill
Co Cork

To Discharge **effluent from toilet facilities and food preparation area**

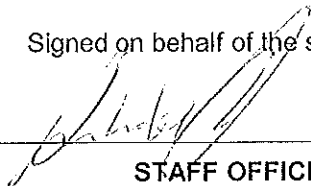
To (River) **groundwaters via existing percolation area**

Located at **Fota Wildlife Park, Foaty, Carrigtwohill, Co Cork**

subject to the Conditions set out in the schedule attached hereto. It should be noted that a person shall not be entitled solely by reason of a licence to make, cause or permit a discharge to a sewer.

**ENVIRONMENT
DEPARTMENT,
ROOM GF22,
CORK COUNTY COUNCIL,
INNISCARRA,
CO CORK.**

Signed on behalf of the said Council,



STAFF OFFICER

Dated this 7th day of December 2009.

NOTE:

An appeal against a decision made by a Sanitary Authority under Section 16 and Section 17 of the Act of 1977, may be made to An Bord Pleanala under Section 20 of the Act, as inserted by Section 15 of the Local Government (Water Pollution) (Amendment) Act, 1990 within one month of the date of the Licence.

Appeals should be addressed to THE SECRETARY, AN BORD PLEANALA, 64 Marlborough Street, Dublin 1, and will be invalid unless accompanied by an additional fee of €126.00.

A request for an oral hearing shall be accompanied by an additional fee of €63.00.

A party to an appeal shall give to An Bord Pleanala any document, information or evidence in his possession or procurement, which An Bord Pleanala consider necessary for the purpose of determining the appeal.



CORK COUNTY COUNCIL
Environment Directorate,
Inniscarra,
Co. Cork

W.P. (W) 14/09

Licence to Discharge Effluent to Waters.
Issued under Section 4 of the Local Government (Water Pollution) Acts
1977 & 1990, as amended by the Water Services Act 2007

Fota Wildlife Park Ltd.
Carrigtohill,
Co. Cork

Schedule

Wastewater Discharges shall take place only as specified in the licence application WP (W) 14/09 as modified and/or controlled by this licence and subject to the requirements of law. Any changes in the nature or quantity of any emission shall require the licensee to notify the Licensing Authority and in the case of any material change for the licensee to request a review or obtain a new licence as may be determined by the Licensing Authority prior to any such change being made. The Licensing Authority shall interpret whether any change is material or not.

This licence supersedes all previous licenses and correspondence issued in respect of the facility under the terms of the Local Government Water Pollution Acts 1977 to 1990.

In the event of the licence being transferred to another party or company the applicant shall notify the Licensing Authority of this fact and shall also provide the details of the new licence holder prior to the transfer of the licence

1 WASTEWATER MANAGEMENT

- 1.1 The Licensee shall employ the best available techniques in the avoidance, minimisation, treatment and disposal of wastewaters produced on site
- 1.2 Employees with responsibilities in the wastewaters control and treatment shall receive training adequate to enable them to execute their tasks in relation to pollution control. These records shall be retained on site for auditing by the Licensing Authority.
- 1.3 The Licensee shall initiate an approved maintenance programme for all such pollution abatement equipment in use in the treatment process or in pollution control. This includes grease traps, interceptors, wash down and silt trap separators. These units shall be inspected at least weekly and cleaned at a minimum on a monthly basis. A register shall be retained on site of all maintenance work and inspections carried out on such units and this information shall be made available to the Licensing Authority either on request or available for inspection on site.
- 1.4 Licensed contractors shall be used for the removal of all waste materials to licensed facilities for disposal/recovery.
- 1.5 This licence is for the discharge of treated domestic wastewater only. The Licensee shall ensure no material or substance is discharged from the premises that may affect the working of the wastewater treatment plant. Hazardous chemicals, solvents, paints, pesticides, waste oils and other such chemicals shall not be discharged via the foul treatment system.
- 1.6 Confirmation that the percolation area has been installed as per application, shall be submitted to the Licensing Authority by a registered professional with chartered status (or equivalent) awarded by a relevant professional body by the 01/06/10.
- 1.7 Safe access shall be ensured for all persons involved in water pollution control to and from the wastewater treatment plant and discharge point to the percolation area. Dangerous animals shall be adequately fenced off from these areas.
- 1.8 The overflow from the existing sewage pumping station identified on Drawing no. 2178T7 shall be removed, and a high level alarm fitted.

2 CONTAMINATED WASTE WATERS

- 2.1 All contaminated waste waters arising from the operation of Fota Wildlife Park at Fota Island, Carrigtohill, Co. Cork shall be collected and treated by the onsite wastewater works and discharged to groundwaters via soil polishing filter as indicated on drawings and maps which accompanied this licence application.
- 2.2 Contaminated wastewater arising from the above named development only, shall include the following:
- Domestic wastewater
 - Any activity approved by the Licensing Authority
- 2.3 The wastewater flow shall not exceed 20 m³ /day.
- 2.4 Grab samples shall be taken by the licensee from the sampling point of the wastewater treatment unit prior to discharge to the sand polishing filter, and tested for the parameters indicated in the following tables:

pH		6.0– 9.0 pH units
Biochemical Oxygen Demand	25 mg l ⁻¹	0.5 Kg day ⁻¹
Total Suspended Solids	35 mg l ⁻¹	0.7 Kg day ⁻¹
Total Nitrogen (as N)	20 mg l ⁻¹	0.4 Kg day ⁻¹
Total Phosphorus (as P)	6 mg l ⁻¹	0.12 Kg day ⁻¹

For parameters other than pH, eight out of ten consecutive results shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value. pH shall not deviate from specified range.

The frequency of testing for the above parameters shall be as follows;

Monthly for all parameters for the first twelve months from the date of issue of this licence. Quarterly thereafter if the previous 12 months data demonstrates 100% compliance with condition 2.4 above. The Licensing Authority reserves the right to alter the frequency of testing.

The sampling point shall be post wetlands system, and prior to discharge to the percolation area.

- 2.5 All test methods used by the Licensee for the monitoring of the nature of the discharge shall be agreed with the Licensing Authority. All laboratory equipment used for wastewaters monitoring shall be calibrated in accordance with the manufacturers' recommendations and records of such calibrations shall be held by the Licensee for inspection by the Licensing Authority on request.
- 2.6 In the event of malfunction or breakdown of the pollution abatement equipment, or, any other incident on site which may be rise to water pollution, the Licensee shall immediately report the incident to the Licensing Authority by telephone or telefax and shall confirm the communication in writing within twenty four hours.
- 2.7 The licensee shall carry out and document a visual inspection of the treatment facilities and percolation area weekly, and any abnormalities shall be noted. If it appears that abnormalities may be occurring then the Licensee shall immediately notify the Licensing Authority and initiate an investigation into the possible cause of the abnormalities.
- 2.8 All domestic wastewater sumps or other treatment plant chambers from which spillages might occur shall be fitted with a high-level liquid alarms. The alarm systems shall relay to a responsible contact person for the site. Containment areas around pump sumps shall be put in place and all spillages diverted to the effluent treatment plant for treatment.
- 2.9 A register shall be maintained on site of all maintenance work and inspections carried and this information shall be made available to the licensing Authority on request.

3 GROUNDWATER

- 3.1 The Licensee shall on request of the Licensing Authority implement, a programme of groundwater monitoring agreed in advance with the Licensing Authority. This monitoring shall include the monitoring of a minimum of three wells, one of which shall be located above and one below the site's hydraulic gradient. The location of the wells are to be agreed with the Licensing Authority.

The programme shall include the monitoring of each well for the following parameters: conductivity, pH, Total Organic Carbon, heavy metals, hydrocarbons and mineral oils and such other parameters as may be indicated by the Licensing Authority on a frequency decided by the Licensing Authority. The Licensing Authority reserves the right to alter the frequency of testing.

4 STORAGE FACILITIES

- 4.1 All fuels, chemicals, oils and lubricating fluids storage tanks shall be rendered impervious to the materials stored therein. In addition, storage tank areas shall be bunded, either locally or remotely, to a volume of 110% of the largest tank within each individual bunded area. All valves to be contained within the bund. The bunded area is to be fitted with a locking penstock valve which shall only open to discharge storm water to the interceptor. The licensee shall ensure that this valve is locked at all times.
- 4.2 The integrity and water tightness of all the bunded structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee to the satisfaction of the Licensing Authority. The results of these tests shall be certified by a Chartered Engineer.
This work must be completed by 30th September 2010 with a report submitted to the Licensing Authority.

5 SOLID WASTES

- 5.1 All wastes shall be recycled, recovered, or, reused in so far as is practical. All waste management options utilized shall be agreed in advance with the Licensing Authority. The volume of all wastes generated on site shall be recorded by the licensee. All such wastes shall be detailed as to source, route and type of recycling or disposal and classification under the European Waste Catalogue. This information shall be included in the annual summary report which must be returned to the Licensing Authority under the terms of this licence.

6 MONITORING

- 6.1 The licensee shall grant immediate and unhindered access to the site and any portion of the pollution abatement equipment to any authorized personnel representing any body having statutory responsibility for water pollution control, at all times to carry out such inspections, monitoring and investigations as the body deems necessary.
The Licensing Authority reserve the right to carry out monitoring works on the Licensee's site in relation to the nature or quantity of discharges from the licensee's premises. The Licensing Authority may install such equipment as may be necessary to collect this information at the Licensee's premises. The cost of this work will be borne by the Licensee.
- 6.2 The licensee shall keep records of all monitoring carried out and shall retain such records for a minimum period of five years. These records shall be available for inspection by authorized personnel representing any statutory body involved in water pollution at all reasonable times.
The licensee shall submit to the Licensing Authority at quarterly intervals the results of all monitoring relating to the previous quarter, together with any other records relating to

pollution control which may be required by the Licensing Authority. The format of these results shall be in accordance with the Licensing Authority template which will be provided to the licensee.

- 6.3 Any non-compliance with the terms of the licence shall be highlighted and the reason why this occurred shall be stated. The measures taken to ensure non-recurrence of the non compliance shall also be outlined. The percentage compliance with licence values for each parameter shall also be indicated.
- 6.4 Before January 31st of each calendar year, the Licensee shall submit a summary report of all monitoring carried out in the previous year. This report shall evaluate the operation of the facilities available on site to treat the wastewaters produced in the light of the results achieved in the previous year. All submitted reports shall be signed by the Licensee's plant manager or other senior officer designated by company

7 RESPONSIBLE PERSON

- 7.1 The licensee shall ensure that a person or persons is/are available at all times to give relevant information on emissions to the Licensing Authority. The licensee shall identify to the Licensing Authority each such person.

8 CONTRIBUTIONS

- 8.1 The licensee shall pay to the Licensing Authority such annual contributions towards the cost of monitoring the discharge as the Licensing Authority considers necessary for the performance of its duties under this Act as follows:
 - a) Not later than September 30th, 2010 the licensee shall pay to the Licensing Authority a contribution of not less than (€ 1350).
 - b) In subsequent years the licensee shall pay to the Licensing Authority an annual amount of not less than (€1350) updated in accordance with the Consumer Price Index from the date of the grant of this licence to the value pertaining at the time of payment of each annual contribution.
 - (b) Notwithstanding the foregoing, the rate of contribution each year shall take account of the actual costs of monitoring as incurred by the Licensing Authority in the previous year and as estimated for the next year.
- 8.2 Notwithstanding the foregoing, The Licensee shall pay a contribution towards the cost of Cork County Council treating their effluent as shall be charged on a routine basis.