

Local Government (Water Pollution) Act, 1977 and 1990

LICENCE TO DISCHARGE TRADE EFFLUENT TO WATERS

LOCAL AUTHORITY: SLIGO COUNTY COUNCIL

TO: Denis Flynn
Hillstreet Quarries Ltd.,
Glen,
Geevagh,
Arigna,
Co. Sligo

Sligo County Council in exercise of the powers conferred on it by the Local Government (Water Pollution) Act, 1977, as amended, hereby grants a licence, Ref. DL(W) 38, to Mr Denis Flynn, Hillstreet Quarries Ltd, Glen, Geevagh, Arigna, Co. Sligo, to discharge trade effluent to waters in the Townland of Glen Td., Geevagh, Co. Sligo.

The Licence shall be subject to the following conditions:

1. The Licensee shall discharge settled water from the final settlement lagoon to the watercourse in Glen. Td., Geevagh which forms a tributary of the Arigna River as detailed in the submission received on the 5th October 2006.
2. The licensee shall eliminate petrol, oil or any inflammable matter from the final discharge.
3. The licensee shall not discharge, or cause or permit to be discharged from the site
 - a. Any effluent with a pH less than 6 or greater than 9.
 - b. Any effluent with suspended solids greater than 15mg/l
 - c. Any effluent with a Biochemical Oxygen Demand (BOD) greater than 10mg/l
 - d. Any effluent with a Chemical Oxygen Demand (COD) greater than 50mg/l
 - e. Any effluent with a Total Nitrogen concentration greater than 15mg/l N
 - f. Any effluent with a Total Phosphorus concentration greater than 2 mg/l P
 - g. Any effluent with a Temperature greater than 20 °C
 - h. Any effluent with a hydrocarbon concentration greater than 1mg/l
4. The maximum volume of effluent discharged from the site shall not exceed 1,000m³ per day and the maximum volume discharged in any hour shall not exceed 90m³.
5. Run- off from the site shall be minimised by providing an appropriate drainage system to reduce surface water run-off into the quarry work area.

6. The size and time that unvegetated soils are exposed shall be minimised. All contaminated water from the site shall discharge to the primary settlement lagoon.
7. In the event that any analyses or observations made on the quality or appearance of the final discharge or surface water runoff indicates that contamination has taken place, the licensee shall
 - (i) carry out an immediate investigation to identify and isolate the source of the contamination,
 - (ii) put in place measures to prevent further contamination and to minimise the effects of any contamination on the environment.

Monitoring and Reporting

8. The effluent shall be monitored at the final discharge sampling chamber in accordance with the requirements set out below. All analysis shall be carried out by an independent laboratory accredited for each of the parameters specified.

Parameter	Monitoring Frequency	Analysis Method
Flow	Continuous	On-line flow meter with recorder
Chemical Oxygen Demand	Monthly	Standard Methods
Biochemical Oxygen Demand	Monthly	Standard Methods
Suspended Solids	Monthly	Gravimetric
PH	Monthly	pH Electrode/Meter
Total Phosphorus (as P)	Monthly	Standard Methods
Total Nitrogen (as N)	Monthly	Standard Methods
Temperature - °C	Monthly	Standard Methods
Hydrocarbon	Quarterly	Standard Methods

9. Gubbarudda Spring & Tullytawen Borehole shall be monitored twice yearly in accordance with the requirements set in condition 8 above. All analysis shall be carried out by an independent laboratory accredited for each of the parameters specified.
10. The licensee shall conduct a detailed assessment of the lagoons to ensure their integrity and watertightness. A report on the findings of the study shall be submitted to the Local Authority within two months of the date of issue of the discharge licence. Any measures identified to ensure the lagoons are watertight shall be put in place immediately.
11. The settlement lagoons shall be cleaned and maintained regularly and sediment from the settled lagoons to be tested for iron and manganese annually and results to be submitted to Sligo County Council.
12. Settlement lagoons shall be inspected and tested every six months to ensure they are undamaged and watertight.
13. Storm water from the site and the discharge from the oil interceptor shall be monitored at least annually for total petroleum hydrocarbons and the results submitted to Sligo County Council annually or on request.

14. The Environment Section, Sligo County Council shall be informed immediately by both telephone and facsimile of any
 - Malfunction or breakdown in the flocculation equipment, lagoons or monitoring equipment, which may cause a deterioration of the final effluent.
 - Any emission which does not comply with the requirements of this licence.
 - Any incident with the potential for environmental contamination of surface or groundwaters.
15. A suitable sampling chamber shall be provided on the final effluent discharge pipe prior to discharge to waters. The licensee shall provide safe and permanent access to the sampling chamber and settlement lagoons to any authorised person under the Local Government (Water Pollution) Acts, 1977 & 1990.
16. The company shall install & maintain on the final effluent outflow pipe a flow proportional sampler and an automatic measuring device with a chart recorder which will record instantaneous rate of flow. An integrated unit shall be provided and daily records of the discharge shall be kept. Flow charts and records shall be kept for one year from the date of recording of information and shall be submitted quarterly to The Environment Section, Sligo County Council.
17. A turbidity monitoring system shall be installed on the final discharge pipe and an alarm attached to notify the plant supervisor when suspended solids levels are elevated.
18. All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried out.
19. All treatment, control and monitoring equipment and the interceptors shall be maintained on a regular basis in accordance with the manufactures instructions. A log shall be put in place to record the time and date of maintenance, together with any observations made during these inspections. This log shall be made available for inspection on request.
20. The Licensee shall submit an Environmental Management System (EMS) as detailed in the Environmental Protection Agency, *Environmental Management Guidelines for Environmental Management in the Extractive Industry* (2006) for approval by Sligo County Council within 3 months of the date of issue of this discharge licence.
21. Records of the type and quantity of waste taken off site, date taken off site and the name of the company taking the waste shall be kept and submitted to Sligo County Council on request.
22. The licensee shall submit to the Local Authority, a year from the date of grant of this licence, and each calendar year thereafter, an Annual Environmental Report. This report shall include as a minimum the following information
 - Surface water discharge monitoring summary
 - Waste management report
 - Complaints summary
 - Pollution emission and environmental incident report, including the date and time of incidents and the steps taken to minimise the emissions and avoid recurrence
 - Lagoon testing and inspection report.

23. Certified Monitoring results of the effluent quality shall be submitted to Sligo County Council (Environmental Section) on a quarterly basis.
24. A full-time trained person shall be employed for all environmental aspects of the site including operation, maintenance & monitoring of the effluent settlement system. This person shall be identified to Sligo County Council within 4 weeks of the licence been granted. The licensee shall provide appropriate training, for all personnel whose work could have a significant effect upon the environment.
25. The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with this licence and these records shall be submitted to the Local Authority on a quarterly basis or on request by the Local Authority.

Waste and Oil Management

26. Contaminated stormwater from the fuel storage areas, all filling and dispersing points and the area adjacent to the garage shall discharge to adequately designed hydrocarbon interceptors prior to discharging to the primary lagoon.
27. All oil/diesel storage tanks areas shall be provided with an adequately designed bund complete with impervious base. Filling and off take points shall be located within the bund. The tank bund shall, as a minimum have a volume not less than 110% of the capacity of the largest tank within the bunded area.
28. Drums of oil, fuels and other chemicals shall be stored in the workshop on spill pallets.
29. (a) All wastes including waste oils, used batteries etc shall be collected and stored in the workshop. The storage area shall be bunded or otherwise designed so that surface and ground waters cannot be contaminated by spillage.
(b) All waste shall be recovered or disposed of in accordance with current Waste legislation.
30. All vehicle maintenance shall take place in a roofed area.
31. The wheels of all vehicles must be washed before leaving the site and the road should be kept clean at all times. The wheel wash to be kept maintained at all times.
32. An adequate supply of containment booms and oil/chemical absorbent materials shall be kept on site at all times.
33. The applicant shall ensure that surface and ground waters are adequately protected from contamination by process materials and/or wastes.

General

34. No alteration in the activity or treatment process which would, or is likely to, result in a change in

- The nature or quantity of the final discharge,
- The treatment or recovery systems,
- The range of processes to be carried out,
- The fuels, raw materials, products or wastes generated,
- Changes in the site management and control with adverse environmental significance

shall be carried out or commenced without the prior written agreement of Sligo County Council.

35. The company shall pay a sum of €1,500 per annum, updated in accordance with Consumer Price Index, to cover the cost of monitoring by the licensing authority.

36. In accordance with Section 7 of the Local Government (Water Pollution) Act 1977 as amended by Section 5 of the Local Government (Water Pollution) Act 1990, the conditions of the licence may be reviewed after three years or an earlier date as circumstances may require.

Signed: Patrick J. O'Leary
Director of Services

Date: 5th December, 2006.

