Original

ANNUAL ENVIRONMENTAL REPORT.

SCARRIFF RECYCLING CENTRE & TRANSFER STATION , FOSSA BEG, FEAKLE ROAD, SCARRIFF, CO. CLARE

LICENCE REF. NO W0150-01

Submitted by

Environment Section,
Clare County Council,
New Road
Ennis,
Co. Clare.

Date: 2011

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1) Reporting Period

01/01/10 to 31/12/10

2) Details of Activity

The principal waste activity of the Transfer Station is the compaction of solid waste into 30 m^3-closed containers for subsequent disposal to landfill in accordance with Class 12 of the Third Schedule of the Waste Management Act, 1996. Other waste activity is the storage of non-recoverable waste received at the facility, prior to disposal at an appropriate facility in accordance with Class 13 of the Third Schedule.

Other waste recovery activities include recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) in accordance with Class 2 of the Fourth Schedule, recycling or reclamation of metals and metal compounds in accordance with Class 3 of the Fourth Schedule, and recycling or reclamation of other inorganic materials in accordance with Class 4 of the Fourth Schedule. This covers the acceptance of waste oils, cooking oils, beverage cans, white goods, other metals, and glass at the facility.
Class 13 of the Fourth Schedule allows for the storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. This activity is limited to the storage of waste types authorised by the licence at the facility prior to recovery at an alternative appropriate facility.

3) Volume and composition of waste received during the year.

The quantity of municipal solid waste accepted at the facility during the calendar year was as follows:

Public Domestic Waste delivered to site	566.42	tonnes
Recyclable material delivered to site	605.97	tonnes
Total	1172.39	tonnes

The quantity of waste materials accepted for subsequent recycling/recovery was as outlined in Table 3.1 below:

Table 3.1

1	2	4	5	6
Material Type	**E.W.C. Code**	**Tonnage**	**% of overall total (by weight)**	**W.C.S.[Note 1] 2001 % quantities arising**
Domestic waste	20 00 00 20 03 01	566.42	48.34	
Metals for recycling	20 01 40	71.96	6.14	
Glass for recycling*	15 01 07	221.6	18.9	4.0
Aluminium Cans*	15 01 04	5.8	0.5	
Plastic bottles*	15 01 02	3.82	0.3	
Steel cans	15 01 04	27.26	2.3	
Batteries	16 06 04	3.193	0.3	
Lead Acid Batteries	16 06 01	5.01	0.4	
Newspapers	20 01 01	65.14	5.6	10.5
Waste Engine Oil	13 02 08	5.244	0.5	
Waste Oil Filters	16 01 07	1.54	0.1	
Cardboard	15 01 01	84.92	7.24	7.3
Tetrapak	15 01 05	3.96	0.34	
Textiles	20 01 11	3.92	0.33	4.5
WEEE	200123, 35,36	72.372	6.17	
Waste cooking oil	20 01 25	0.00	0.00	0.00

Note 1: W.C.S. Waste Characterisation Survey 2001
* figures are estimates

The quantities of waste allowed for acceptance at the facility under Schedule A of the licence are as outlined in Table 3.2 below:

Table 3.2:

Waste Type	**Maximum (Tonnes per annum)**
Municipal Waste	900
Wastes for recovery/recycling	100[Note 4]
Total	**1000**

Note 4: The amount of wastes accepted for recovery/recycling may be altered as long as the total accepted at the facility does not exceed 1000 tonnes per annum.

Table 3.3 below shows quantities of waste received at the facility since it opened in 1998.

Table 3.3

Year	Mixed Municipal Waste (tonnes)	% change per annum
1998	180	
1999	375	+108
2000	450	+20
2001	518	+15
2002	699	+35*
2003	676	-3.3
2004	672	-0.6
2005	774.58	+15
2006	949.54	+22.6
2007	991.84	+4.45
2008	854.19	-13.87
2009	743	-13.02
2010	566.42	-23.77

* Large increase due to Doora closure end June '02.

4) Full title and written summary of any procedures developed by the licensee during the previous year.
No new written procedures have been developed during the reporting period.

5) Summary report on Emissions.
The surface water runoff from site roads and uncontaminated surfaces is discharged directly to the adjacent stream via SW1. There is no direct foul water discharge from the facility. Foul water, which is collected from the w.c. sink unit, the transfer station shed, from the compactor and the bin transverse area is diverted to a septic tank unit, which in turn is discharged to a percolation area. It comprises wash water and rainwater falling on the contaminated areas. The septic tank has not been desludged since installation. Loading on the tank is quite small with one w.c. and sink as well as run-off from waste transfer area.

6) Summary of results and interpretations of Environmental Monitoring.
Surface water and dust monitoring are required under Schedule D of Waste Licence 150-1.

6.1 Surface Water.

6.1.1 Surface Water Monitoring:

Surface water monitoring was carried out on the 16th December 2010 at SW1, SW2 and SW3 for the parameters specified in Schedule D.3 of Waste Licence 150-1.

- SW1 represents stormwater discharge to the adjacent stream.

- SW2 and SW3 are surface water locations on the stream, upstream and downstream respectively of the facility.

Results are presented below in Table 6.1. The results are compared to Limit values based on the EPA Proposed Environmental Quality Standards (EQS) and limits taken from the Surface water Regulations.

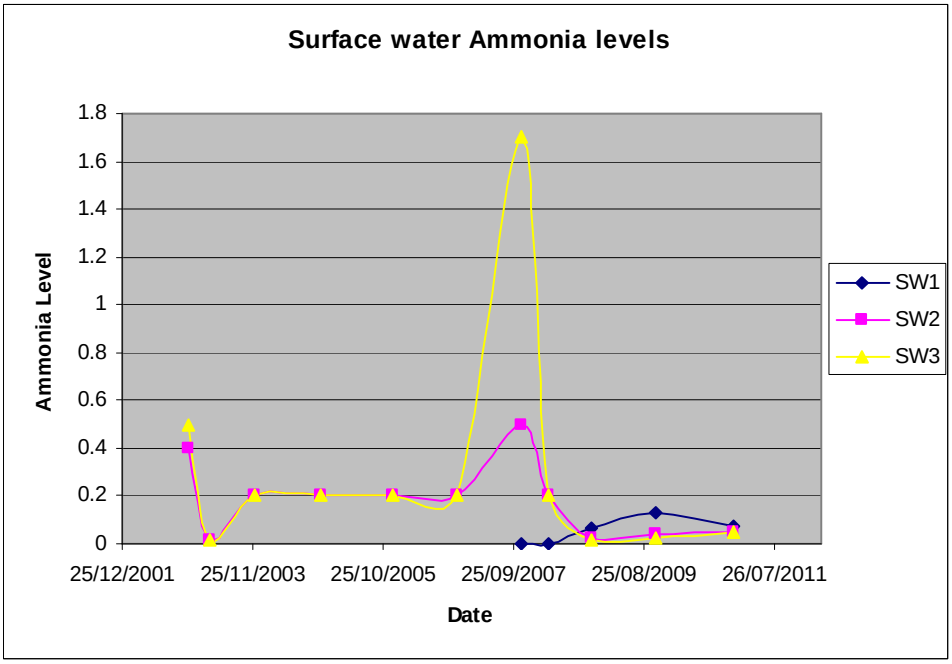
Table 6.1

Parameter	Units	SW1	SW2	SW3	Limit[1]	EQS's
pH		7.95	7.82	7.87		6-9
Temperature	^{o}C	5.5	6.7	6.9	25.0	-
Conductivity	uS/cm	474	374	378	1000	-
NH_4-N	ppm	0.076	0.046	0.046	3.1	0.060
DO	%	95.8	96.9	97.6	>30	-
TSS	ppm	60	22	24	-	-
Chloride	ppm	63.95	22.56	23.98	250	-
BOD	ppm	11	<2	<2	7	<5

Note 1: Limits shown are I/MAC limits for A3 waters, from Surface Water Regulations.

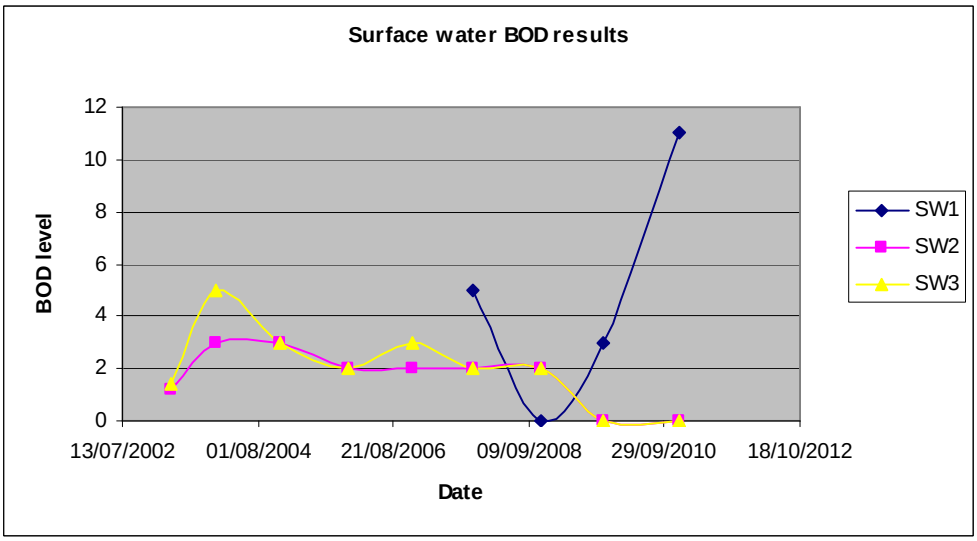
Ammonia levels remained low at all locations, with levels in the range of <0.2mg/l as represented in Figure 6.1.

Figure 6.1



BOD results for surface water locations at this site continue to remain low, stable and are well below the proposed Environmental Quality Standard of 5ppm as displayed in Figure 6.2. The discharge point is elevated (11mg/l) in comparison to the previous monitoring events but still did not significantly impact downstream of the point.

Figure 6.2



In conclusion, previous water quality from both the storm water discharge and the surface water locations remained similar. Discharge from the recycling centre did not affect the quality of the adjacent stream with little/no difference in the quality of the water upstream in comparison to that downstream.

6.1.2 Surface Water Visual Inspection Monitoring:

Weekly visual inspection monitoring of surface waters is required under Condition 8 of Waste Licence W0150-01.
Surface water visual inspection results are recorded in log sheets, which are retained on site. Copies of these sheets can be forwarded if required. The visual appearance of surface water samples from SW1, SW2 and SW3 remained unchanged throughout the monitoring period.

6.2 Dust monitoring.

Schedule D.2 of Waste Licence 150-1 specifies that one 30-day composite dust sample be taken annually, between the months of May and September, at dust monitoring point D1 (shown on Drawing No.1 in Appendix A). Dust monitoring was carried out at D1 by Enterprise Ireland Atmospheric Environment Department, on behalf of Finsa Forest Products Ltd, on a monthly basis during this reporting period (January to December 2010), Dust monitoring results are shown in Table 6.2 below. All results were within the license limit of 350mg/m^2/day.

Table 6.2:

Dust monitoring Results for Scarriff Civic Amenity Centre.

Monitoring Period	Dust Deposition Rate (mg/m^2/day)	Limits (mg/m^2/day)
January 2010	31	350
February 2010	41	
March 2010	98	
April 2010	95	
May 2010	71	
June 2010	87	
July 2010	175	
August 2010	128	
September 2010	122	
October 2010	69	
November 2010	97	
December 2010	35	

7) Resource Consumption Summary

Electricity

4,019 units of electricity were used at the facility in 2010, this is based on the ESB's billing returns for the year.

Water

Approximately 1200,000 litres of water were used at the facility, this is an estimate and is based on 2009 returns.

8) Development works undertaken during the period and timescale for proposed works.

It was proposed to provide an extension to the facility at Scarriff. This was originally outlined in the 2003 AER. Funding was again sought from the Department to progress these works. Clare County Council is still awaiting confirmation from the Department of the Environment, Heritage & Local Government of a grant for this extension.
In the interim it is proposed to investigate the possibility of renting a portion of the adjoining Clare Marts car-park to alleviate traffic congestion on site.

9) Report on progress towards achievement of Environmental Objectives and Targets in previous year's report.

Objective 1	This is ongoing and mainly successful, the licensee will continue to aim for maximum compliance.
Objective 2	A sum of €170,500 has been made available to cover costs arising from this operation for 2011
Objective 3	Percentage of non-municipal waste collected has increased to 51.7% in 2010, this is a significant increase from 41.1% in 2009.
Objective 4	The licensee placed additional signage to improve user friendliness on the site. The licensee will continue to review the site layout in order to provide the best possible service. We introduced the following new waste streams: rigid plastics and flourescent tubes (WEEE). The licensee is awaiting a decision on a Part VIII planning application for the extension of the site; progress beyond this is conditional on Department funding being made available.
Objective 5	Correspondence with EPA as set out by EPA is an ongoing objective, the licensee will continue to progress this objective.

Environmental Objectives and Targets

Objective 1

Comply with all aspects of the licence.

> Target 1.1 - Every effort will be made to comply with all conditions of the waste licence by the prescribed dates.

The Senior Engineer, Executive Engineer in charge, Deputy Site Manager, Executive Chemist and Environmental Patrol Warden have responsibility for implementing this objective.

Objective 2

Ensure that sufficient funds are available to comply with condition 12 of the licence.

Responsibility for ensuring compliance with this objective lies with the Finance Officer of Clare County Council. Sufficient provision was made in both 2009 & 2010 budgets.

Objective 3

Increase the quantity of waste collected for recycling at the facility.

The Senior Engineer, Environmental Services has responsibility for implementing this objective with the assistance of the Executive Engineer in charge and the Environmental Awareness Officer in the Environment Dept.

Objective 4

Improve facilities at the facility.

> Target 4.1 - Make facility more user-friendly by providing extra space. Construct proposed extension as notified to EPA (subject to DOELG Funding and planning permission). This will allow for proper segregation of recyclable streams. All bulky wastes and hazardous wastes will be stored in one particular area of the facility and this area will be secured thus allowing for greater supervision when these recyclable streams are being deposited. This will also eliminate traffic hazards.
>
> In the interim staff will provide assistance and direction to traffic entering and exiting site, the licensee is also investigating the possibility of leasing part of an adjoining car-park to ease traffic congestion on site.

Objective 5

Improve correspondence with the E.P.A.

> Target 5.1 - Council will make every effort to reply to letters of correspondence received from the Agency by the requested dates.

The Executive Engineer in charge and the Administrative Officer, Environment Section have responsibility for implementing this objective.

Time scale

The time scale for achieving these objectives is generally outlined in the target description. The other are generally ongoing and the aim is to achieve progress before the next review of the E.M.P.

Designation of Responsibilities

The Senior Engineer, Environmental Services Section of Clare County Council has overall responsibility for the implementation of these objectives. The specific responsibilities for each objective are outlined in the description.
Responsibility for ensuring compliance with objective number 2 lies with the Finance Officer of Clare County Council.

Progress on Objectives & Targets

1. This is ongoing and mainly successful, the licensee will continue to aim for maximum compliance.
2. Funding has been made available and the licensee will continue to ensure funding is made available.
3. Year on Year there is an increase on recycling rates at the facility, the licensee will continue to aim for increased recycling.
4. We have not yet achieved Objective 4. Clare County Council is still awaiting confirmation from the Department of the Environment, Heritage & Local Government of a grant for this extension. Clare County Council have applied for a Part VIII Planning Application in relation to the extension of the site. A number of objections were received from local councillors in relation to the Part VIII and have to be resolved. Pending resolution of the Part VIII difficulty and the general reduction in business in Scarriff it was considered that it would be advisable to not expend money in 2011 at this facility.
5. Correspondence with EPA as set out by EPA is an ongoing objective, the licensee will continue to progress this objective.

10 Drum, Tank and Bund Testing.

A new Bunded Unit was purchased in 2007, this was fully tested by supplier. An integrity test was carried out on the bund in March 2011 and all results have been submitted to the EPA.

11 Reported Incidents
No incident was reported to the Agency during the reporting period.

12 Review of nuisance controls
Nuisance monitoring and control will continue

13 Financial Provision
A sum of €170,500 has been set aside for the operation of the facility in 2011.