

South Dublin County Council

**Ballymount Solid Waste
Recycling and Baling Centre and Civic Amenity**

Waste Licence Reg. No.W0003-03

**Annual Environmental Report
1st January 2016 – 31st December 2016**



Comhairle Contae
Átha Cliath Theas
South Dublin County Council

Issued 31st January 2017

**BALLYMOUNT SOLID WASTE
RECYCLING AND BALING CENTRE
ANNUAL ENVIRONMENTAL REPORT**

1st January 2016 – 31st December 2016

**Environmental Services Department,
South Dublin County Council,
PO Box 4122,
Town Centre,
Tallaght,
Dublin 24.**

January 2017

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ANNUAL ENVIRONMENTAL REPORT
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1. INTRODUCTION

South Dublin County Council (the Council) holds a Industrial Emissions Licence (Reg. No. 0003-03) to operate Ballymount Solid Waste Recycling and Baling Centre and Civic Amenity Facility at Ballymount Avenue, Walkinstown, Dublin 12. In accordance with the requirements of Condition 11.5 of the Waste Licence, an Annual Environmental Report (AER) for the facility must be submitted to the Environmental Protection Agency (EPA).

This is the sixteenth AER, covering the reporting period 1st January 2016 – 31st December 2016 as agreed with the Agency.

The Civic Amenity and Recycling Centre was operated on the basis of a joint venture agreement between the Council and Greenstar Ltd. up until March 31st 2016. From April 1st To December 31st 2016 the Civic Amenity and Recycling Centre is operated by Panda Waste on a contract agreement between the Council and Panda Waste. For the period of January 1st to December 31st 2016, the operation the Baling Station was operated on a Licence Agreement basis with Panda Waste Services.

The facility is located at: -

Ballymount Solid Waste Recycling and Baling Centre,
Ballymount Avenue,
Walkinstown,
Dublin 12

Tel. (01) 4621251 Fax: (01) 4525145

National Grid co-ordinates for the location of the facility are: E 3103 N 2302.

1.1. South Dublin County Council and Panda Waste Services Policy

The Council and Panda Waste Services have developed an Environmental Policy for the facility, which is committed to conducting all activities such that they have a minimal effect on the environment.

All levels of management are committed to implementing and maintaining an environmental management programme in compliance with the requirements of the Environmental Protection Agency.

The key objectives of the Council and Panda Waste Services management committee are: -

1. A commitment to compliance with the Industrial Emissions Licence and all pertinent environmental legislation and approved codes of practice. To this end, the management committee will co-operate fully with all regulatory authorities.
2. To continually develop and modify all procedures to reduce environmental impacts.
3. To train and educate all employees in the skills and understanding necessary to minimise any risk to the environment.
4. To ensure that all management and employees are familiar with the conditions of the Waste Licence and the content of the Environmental Management Plan (EMP).
5. Utilise BAT (Best Available Technology)
6. To maintain and operate the facility in an environmentally sustainable manner.

2. DESCRIPTION OF THE SITE

The Recycling and Baling Centre is located at Ballymount Avenue, Walkinstown, Dublin 12, within an area zoned for industrial development. The site location plan is shown in Figure 1. The facility is surrounded in the industrial park by various warehouses and industrial buildings and is adjacent to the N81 (Greenhills Road) on its eastern boundary.

Waste handling activities at the facility consist of the pre-treatment of municipal solid household waste for export to incineration for energy recovery by Panda Waste Services and also by Panda Waste Services the acceptance of non-recyclable and recyclable household waste types at the Civic Amenity Facility. The main activity at the facility is the pre-treatment, baling and wrapping of waste for energy recovery by incineration.

The licensed waste activities are listed below.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act 1996 include: -

- Class 12: Repackaging prior to submission to any activity referred to in this Schedule.
- Class 13: Storage prior to submission to any activity referred to in this Schedule, other than temporary storage, pending collection, on the premises, where the waste concerned is produced.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996 include: -

- Class 3: Recycling or reclamation of metals and metal compounds.
- Class 4: Recycling or reclamation of other inorganic materials.
- Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this schedule, other than the temporary storage, pending collection, on the premises where such waste is produced.

On the 16th of December 2015, the EPA deemed Waste Licence W0003-03 to be an Industrial Emissions Licence and granted the following under Part IV of the Environmental Protection Act 1992 as amended.

The licenced activities were amended as follows:

- 11.4 (B) (ii) Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities; pre-treatment of waste for incineration or co-incineration.
- 11.1 The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in the Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.

It is considered that the activities carried out at the waste transfer station do not have an adversely significant impact upon local environmental conditions due to the fully enclosed nature of the facility. While the Civic Amenity Facility is not enclosed, there are no activities carried out which affect local environmental conditions.

Local environmental conditions do 731.7 mm* in 2016. The surface water drainage system is designed with an adequate capacity for high rainfall events at the site. Average prevailing winds are from a south westerly direction. *Baldonnell – Casement Aerodrome

There are approximately 16 people employed on a full-time basis at the facility.

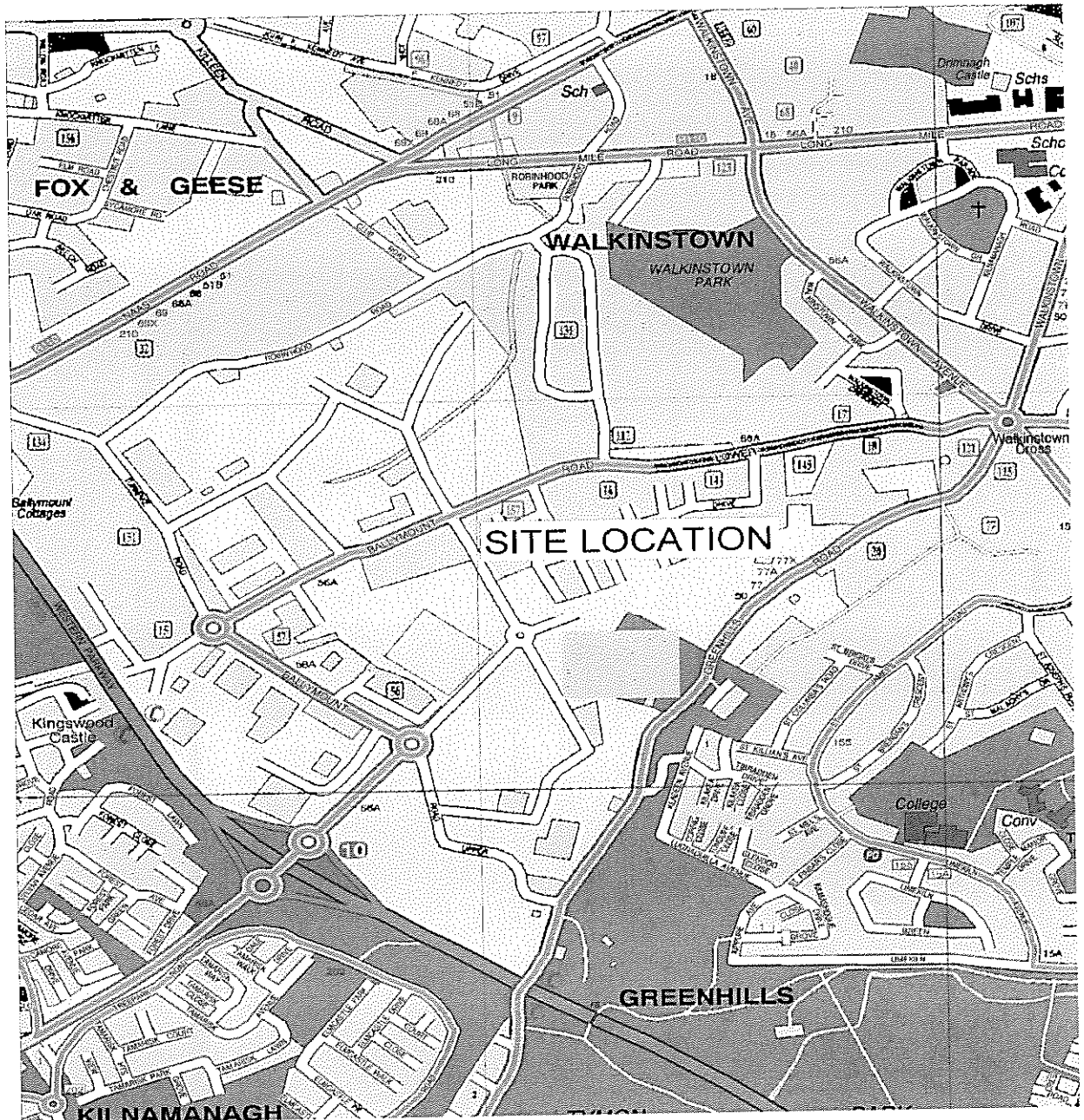


Figure 2.1 Site Location Map

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DISCOVERY SERIES SHEET No. 50

3. MONITORING AND EMISSIONS SUMMARY

Environmental monitoring results for the reporting period are outlined in the following sections. An interpretation of the results and impacts on the environment are also presented. A site plan showing the position of each monitoring location is included in the Appendix.

3.1. Monitoring of Surface Water

Condition 8.1 of Industrial Emissions Licence W0003-03 requires that quarterly monitoring be undertaken at three points on the partially culverted stream to the Northwest of the facility. Two of the monitoring points (S1 and S2) are upstream (us) of the site, while the other point (S3) is downstream (ds) of the site. Surface water parameters are measured quarterly in accordance with Schedule D.4 of the Licence. The surface water monitoring results are summarised in Table 3.1, which can be found in the Appendix and in Figures 3.1 to 3.5. The results are compared where applicable to the limits for the EPA Industrial Emissions Licence W0003-03.

The surface water monitoring results for grab samples were taken upstream and downstream of the facility at S1, S2 and S3 during the reporting period 1st January to 31st December 2016. Exceedences were recorded both upstream and also downstream of the facility in December. Interpretation of results can be found in 3.7.1 along with a copy of results which can be found in the appendices.

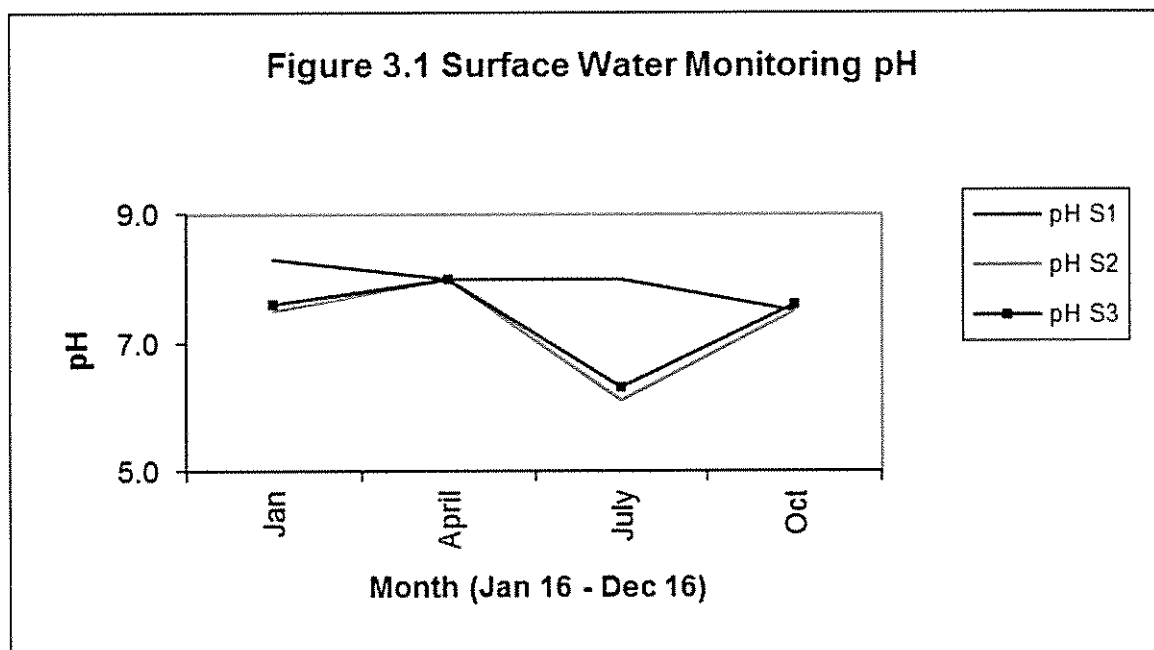


Figure 3.1 Surface Water Monitoring - pH

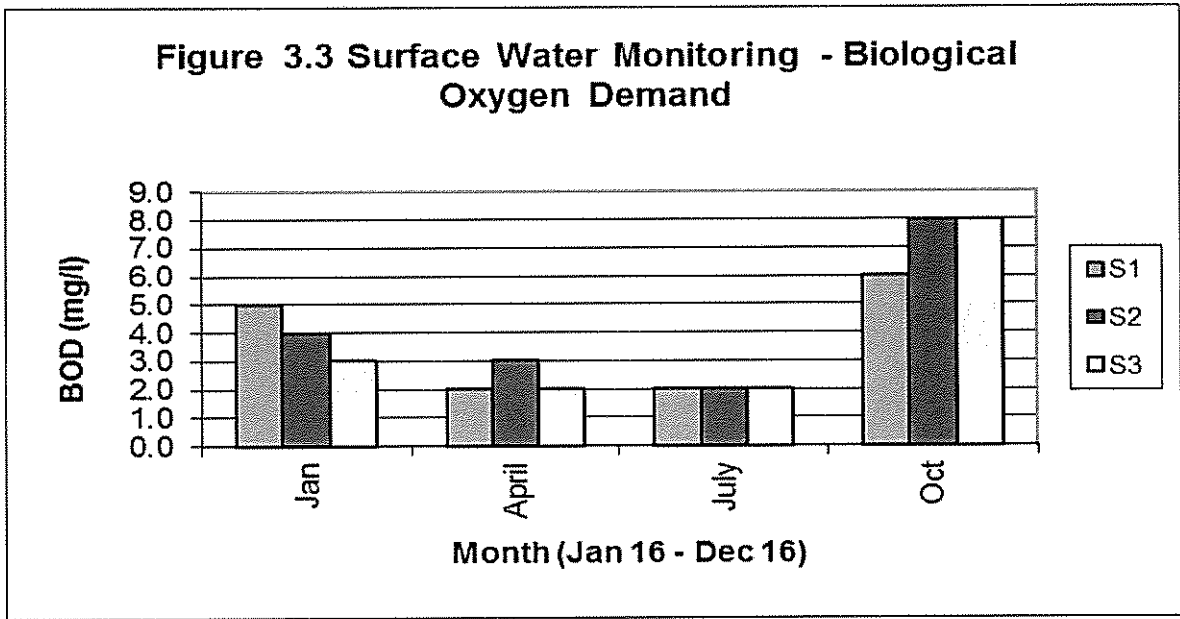


Figure 3.2 Surface Water Monitoring - Biological Oxygen Demand (ELV 25mg/l)
 (BOD detectable limit: <2mg/l)

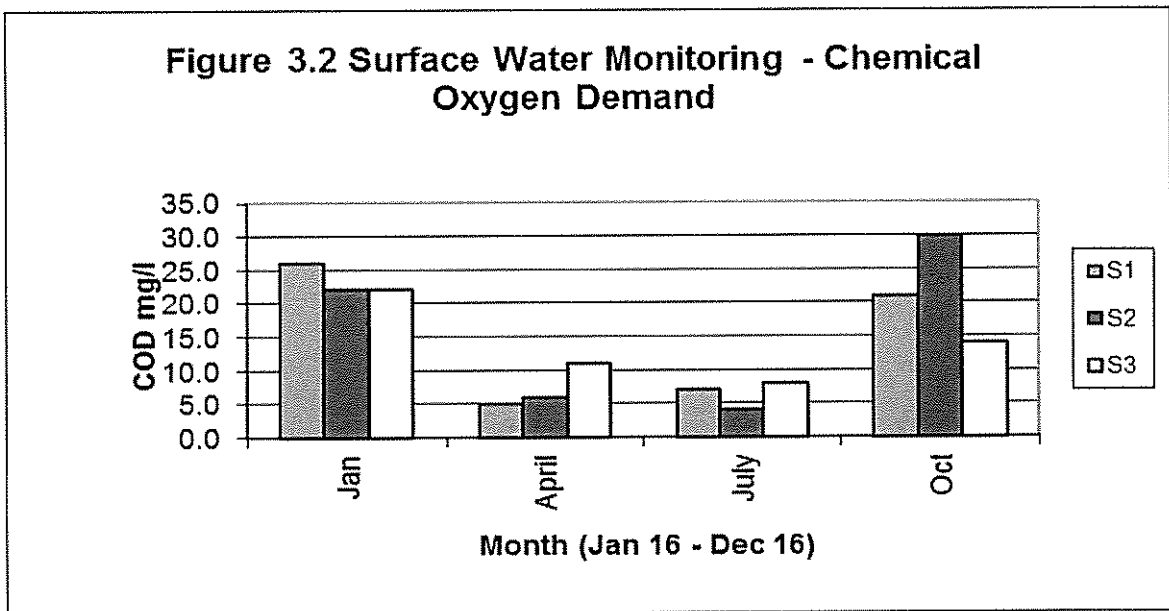


Figure 3.3 Surface Water Monitoring - Chemical Oxygen Demand (ELV 150mg/l)
 (COD detectable limit: <4mg/l)

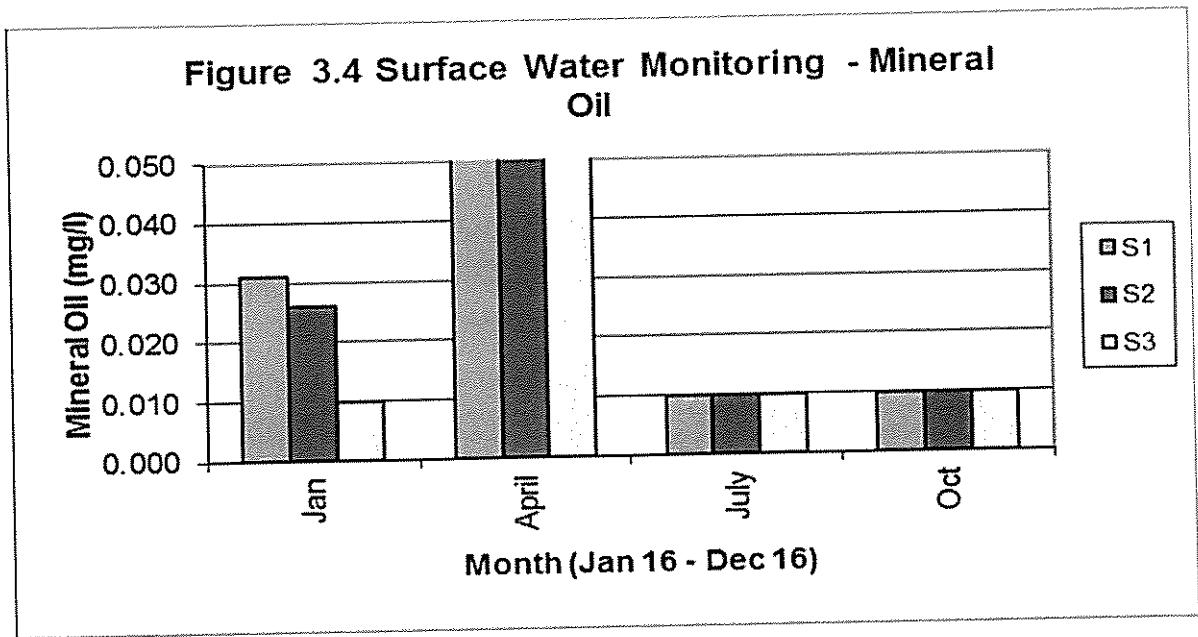


Figure 3.4 Surface Water Monitoring - Mineral Oil (ELV 10mg/l)

(Mineral Oil detectable limit: 0.04mg/l)

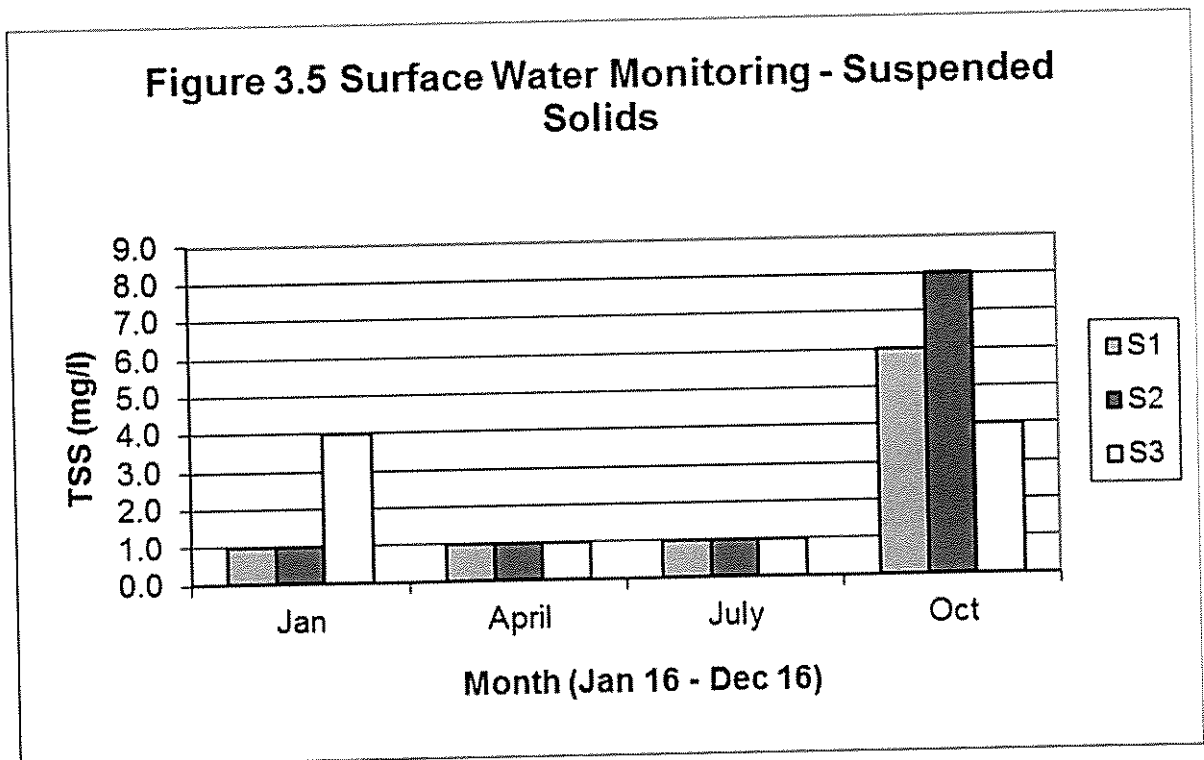


Figure 3.5 Surface Water Monitoring - Suspended Solids (ELV 35mg/l)

3.2. Emissions to Surface Water

The Licence requires that emissions to surface water be measured quarterly (subject to rainfall events) at SWE1A and SWE1B. Due to insufficient sampling volumes, 1 sample was available during the reporting period.

Monitoring Point	SWE1A				SWE1B			
	COD mg/l	OFG mg/l	BOD mg/l	SS mg/l	COD mg/l	OFG mg/l	BOD mg/l	SS mg/l
ELV*	150	10	25	35	150	10	25	35
January	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
April	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
July	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
December	780	Insufficient sample	154	442	No flow	No flow	No flow	No flow

Table 3-1 Emissions to Surface Waters

3.3. Emissions to Foul Sewer

Condition 8.1 requires that emissions to foul sewer (at F6) be monitored on a quarterly basis. 1 exceedence of Ammonia in April 2016 was recorded. No other exceedence of Emission Limit Values as set out in Schedule C.4 of the Industrial Emissions Licence were recorded for emissions to the sewer over 4 the sampling events. The results are illustrated in Figures 3.6 to 3.12. A table of monitoring results is included in the Appendix.

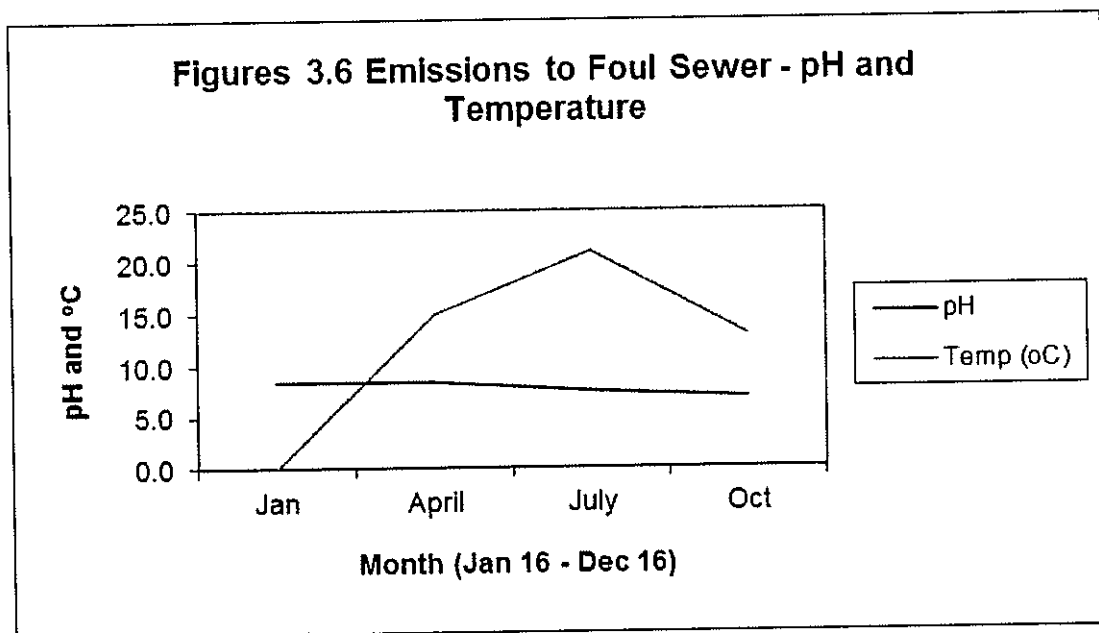


Figure 3.6 Emissions to Foul Sewer - pH and Temperature (ELV 5-10 & 42°C)

*Temperature unavailable for January

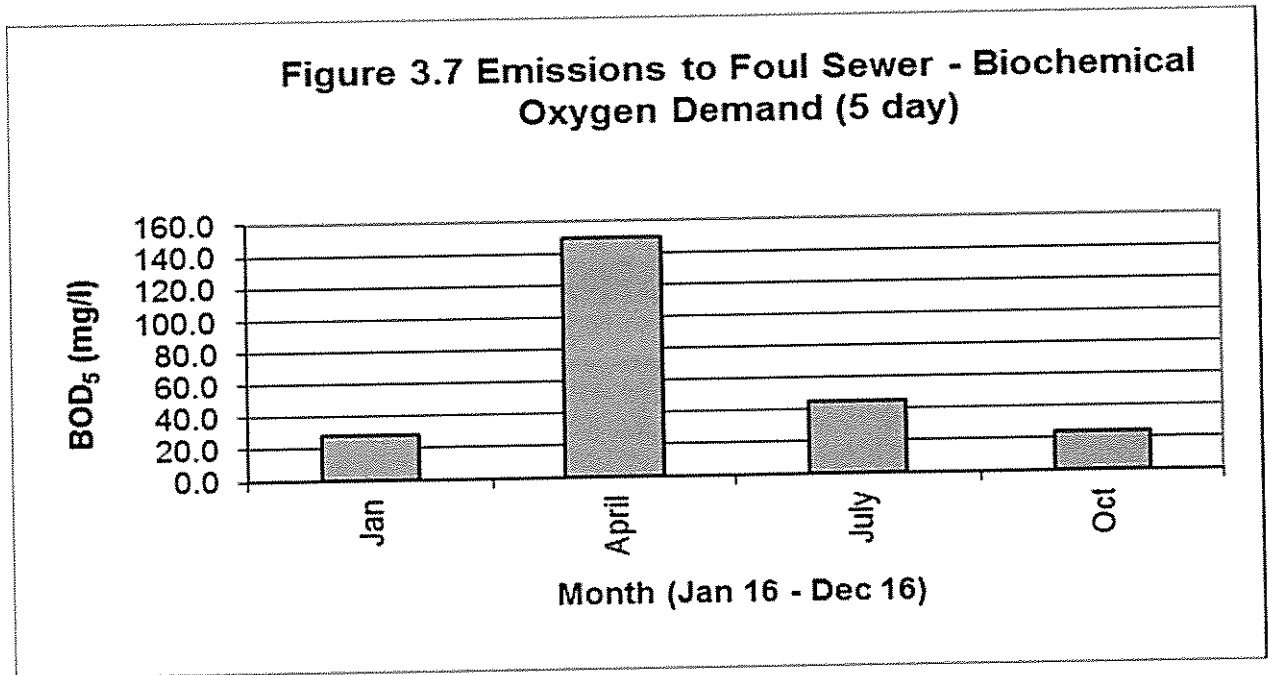


Figure 3.7 Emissions to Foul Sewer - Biochemical Oxygen Demand (5 day) (ELV 10,000mg/l)

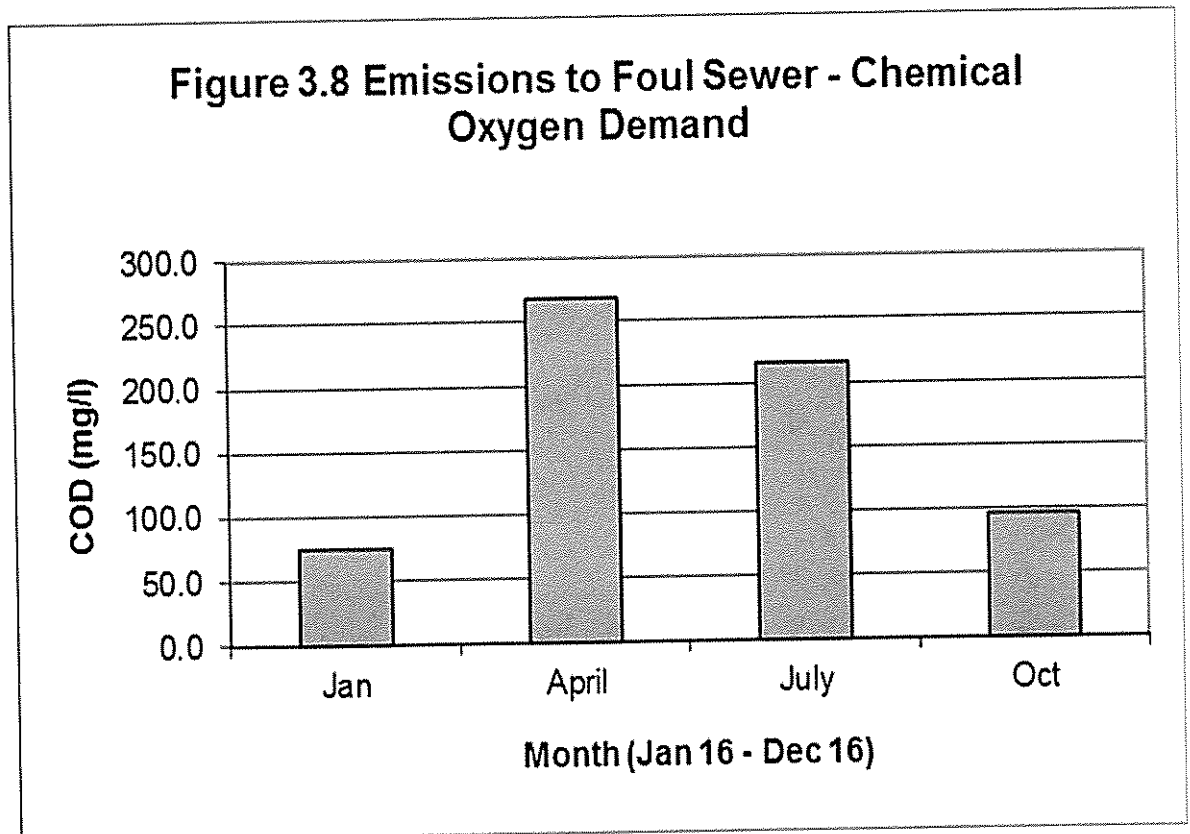


Figure 3.8 Emissions to Foul Sewer - Chemical Oxygen Demand (ELV 30,000mg/l)

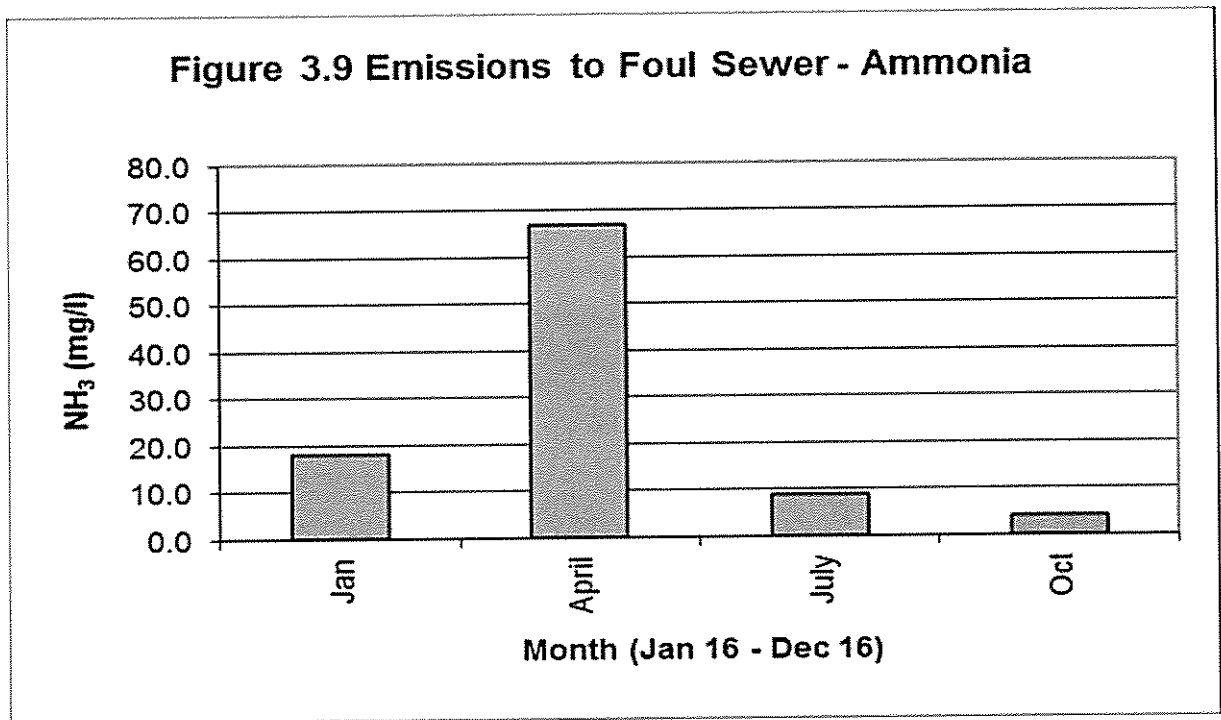


Figure 3.9 Emissions to Foul Sewer – Ammonia (ELV 50mg/l)

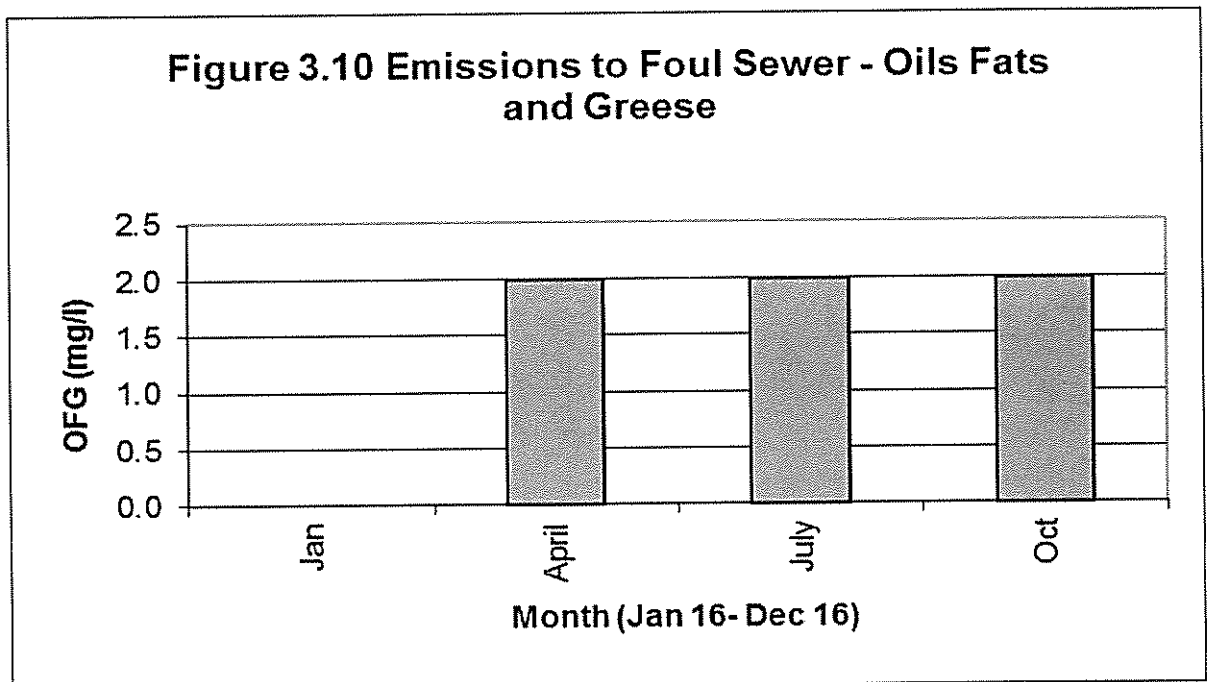


Figure 3.10 Emissions to Foul Sewer - Oils Fats and Grease (ELV 100mg/l)

(No OFG available in January)
(OFG detectable limit: <2mg/l)

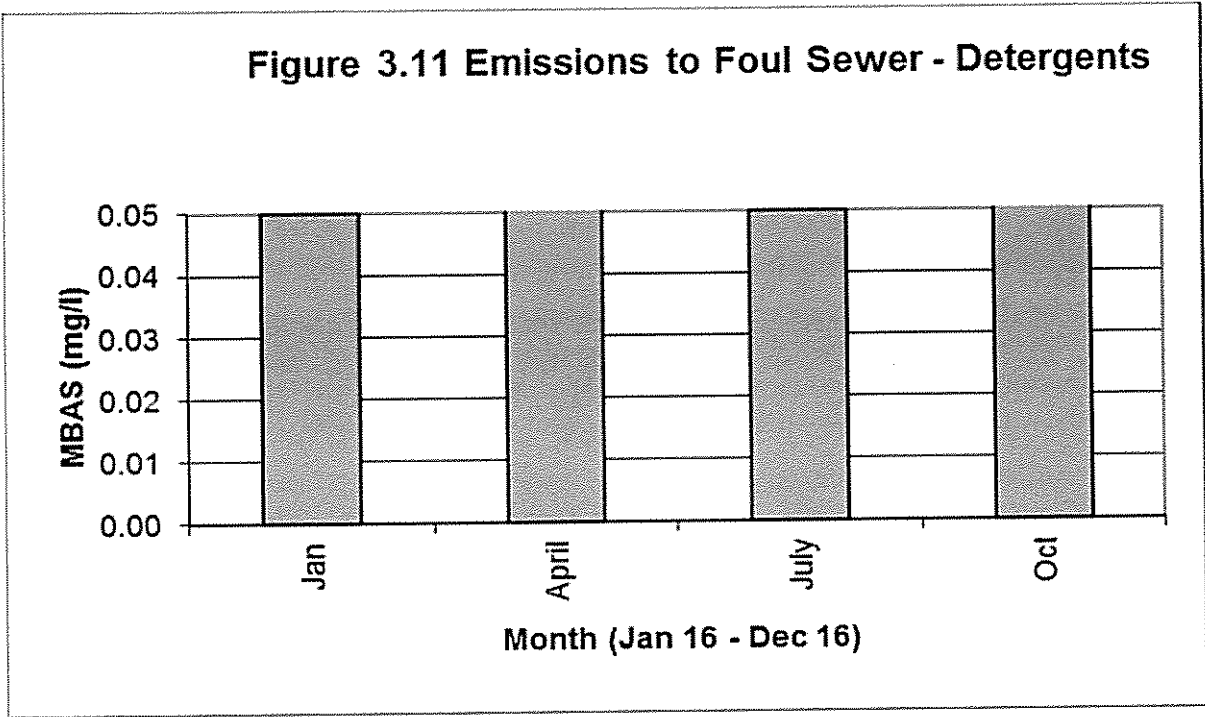


Figure 3.11 Emissions to Foul Sewer – Detergents (ELV 100mg/l)

(Detergents detectable limit: <0.05mg/l)

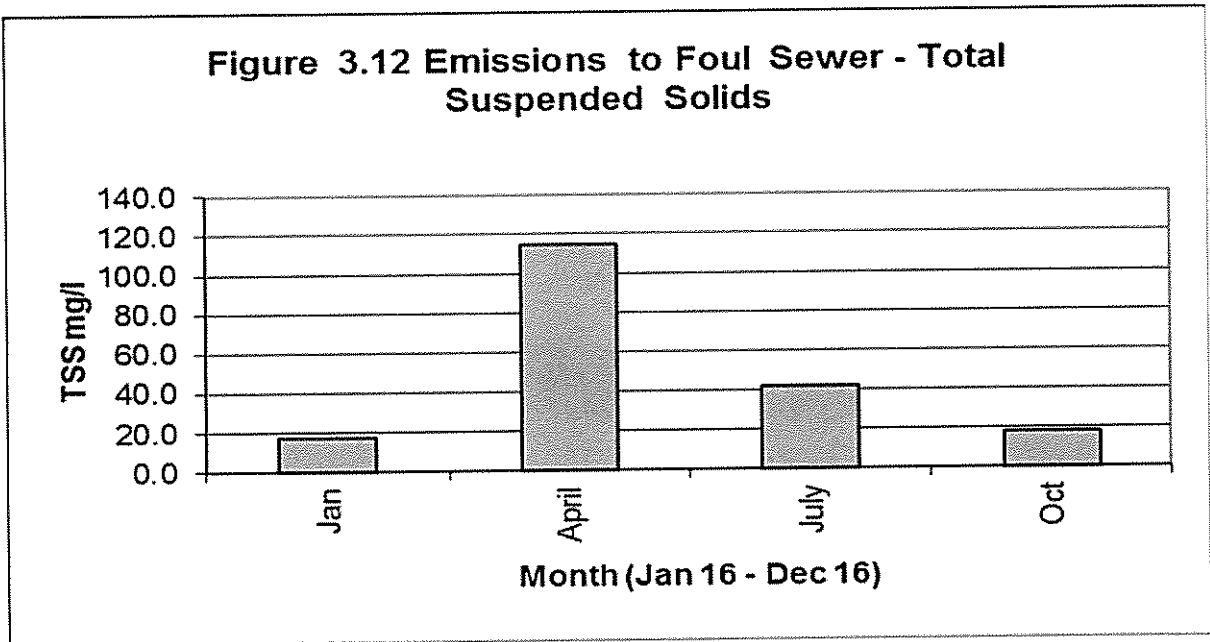


Figure 3.12 Emissions to Foul Sewer - Total Suspended Solids (ELV 2,000mg/l)

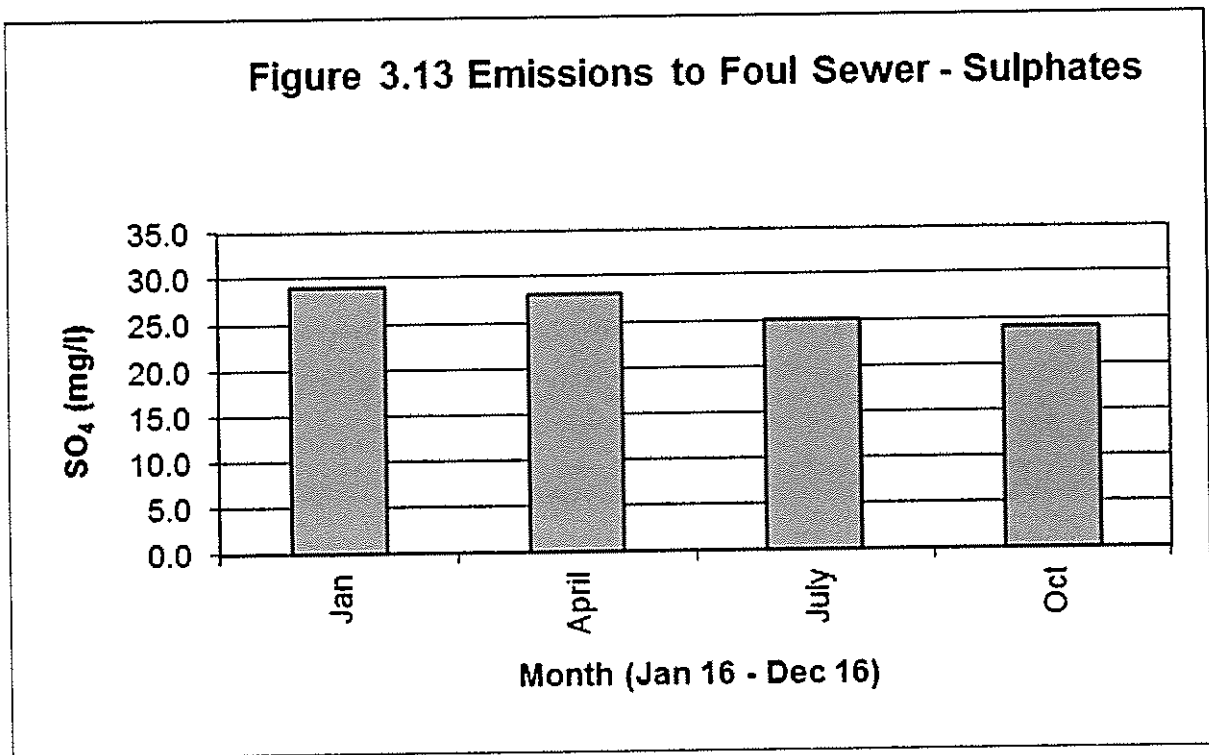


Figure 3.13 Emissions to Foul Sewer – Sulphates (ELV 500mg/l)

3.4. Noise

Noise Monitoring was carried out on 1st and 2nd of June 2016. Monitoring was done for both night and day. Noise monitoring results are presented below in Table 3.2.

Location	Point Location NG Ref.	Sound Pressure dB(A)		
		L(A) _{EQ}	L(A) ₁₀	L(A) ₉₀
<u>Daytime</u>				
N1	Boundary	57.4	58.7	53.1
N2	Boundary	52.6	55.0	46.8
N3	Boundary	61.4	56.4	50.8
N4	Boundary	55.5	58.0	48.4
N5	Nearest NSL	60.2	62.5	49.0
<u>Night-time</u>				
N1	Boundary	44.2	45.3	42.9
N2	Boundary	45.6	47.6	42.8
N3	Boundary	45.6	46.2	44.2
N4	Boundary	47.5	49.7	44.5
N5	Boundary	49.6	52.1	44.8

Table 3-2 Noise Monitoring Results Summary

NSL = Nearest Noise Sensitive Location.

All operations on site are housed except activity which is associated with the civic amenity and trucks entering and leaving the site. All operations on site were being carried out including operations which are housed inside a large building. The dominant noise outside the site is from the busy road network; the Greenhills Rd, M50 and the Ballymount Avenue adjoining the site.

Location N1: The dominant noise at this location was from the Greenhills Rd and Ballymount Avenue. Trucks entering and exiting the adjoining site also contributed. The activity from the waste facility was not audible at this location at a background of 53.1dBA.

Location N2: The dominant noise at this location was from trucks entering and exiting the waste facility close-by and from road traffic noise extraneous to the waste activity. The waste facility would be contributing in the region of 52dBA.

Location N3: The dominant noise levels at this location are from the amenity facility and road traffic. The contribution from the waste facility would be in the region of less than 51dBA.

Location N4: The dominant noise levels at this location are from road traffic and the waste facility. The waste facility contributes less than the background at 48.4dBA.

Location N5: The dominant noise levels at this location are from road traffic on the Greenhills Rd, Ballymount Rd and M50. There is no audible noise from the waste facility at an L_{min} of 48.1dBA.

There was no noise related activity on site at night-time and all recorded noise levels were from activity (road traffic) extraneous to the site. Road traffic noise was the dominant noise at all monitoring locations at night. Accordingly the noise emissions from the site were well below the noise limits for night-time. There were no tonal or impulsive emissions on site during the daytime or night-time.

The noise levels at all monitoring locations are within the limits specified in the licence for day time. The elevated level of road traffic noise from the local road networks masks the noise levels off-site.

The noise emissions were well within the noise limits for night-time at all locations. The noise emissions were in-audible and below the noise limits for day time and night at the NSL (location N5). There was no clearly audible tonal component or impulsive emission from the facility at any monitoring location during the day time or night-time

3.5. Dust and Air Quality Monitoring (PM10)

Dust monitoring was carried out during February to August 2016. PM₁₀ monitoring was carried out during August 2016. Monitoring occurred at three locations during the reporting period and was in full compliance with Condition 8.1. The monitoring established the impact of site operations on localised Air Quality. Results of this monitoring are presented in Table 3.5. The Dust results for D1, D2 and D3 are in compliance with guideline limits values (TA Luft Dust- 350 mg/m²/day). PM₁₀ results are also in compliance with guideline limits (EC/1999/30 PM₁₀- 50 ug/m³).

Monitoring Location	Dust Feb (mg/m ² / day)	Dust May (mg/m ² / day)	Dust June (mg/m ² / day)	PM10 (ug/m ³) August 2014
D1	25	26	28	10
D2	22	25	26	14
D3	30	34	36	15

Table 3-3 Dust and PM10 Monitoring Results

3.6. Odour Monitoring

Table 3.4 sets out the results for odour concentrations from direct stack monitoring of the odour control system. Direct monitoring of the odour abatement stack allows for the assessment of the performance of the odour control system. The system is monitored for mechanical performance, volumetric airflow rate (EN13248-1:2002), static pressures (ISO10780:1994), odour threshold concentration (EN13725:2003) and PID VOC's (USEPA TM21A) to assurances to that the odour control system is achieving adequate performance to prevent odours causing impact beyond the site boundary. The gathered odour is inputted into a dispersion model (AERMOD Prime 07026) with 10 years of meteorological data (Dublin 1997 to 2006 inclusive), which allows for the assessment of the odour control system in accordance with Irish and UK EPA requirements and guidelines (odour isopleths of less than or equal to 3.0 Oue/m³ at the 98th percentile of hourly averages for 10 years of meteorological data).

Outlet 1 & 2 Sample Average Period	Outlet Threshold Concentration Oue/m ³	Volumetric Air Flow Rate (m ³ s ⁻¹)	Odour Emission Rate From Carbon Filtration System Oues ⁻¹
March	439	23.72	10,416
May	1195	24.79	29,636
September	349	26.72	9,314
December	376	22.25	8,378

Table 3-4 Odour Concentrations.

3.7 Interpretation of results

3.7.1 Surface Water Background Monitoring and Emissions to Surface Water

For 2016, predominantly the background surface water monitoring results indicate that the levels of analyses detected downstream of the facility did not exceed the limit values set out in the licence. Exceedences were recorded upstream at the facility discharge point and downstream of the facility in December 2016. It must be noted that samples that were taken and recorded, followed a sustained period of dry weather and what was recorded was possibly a first flush through the drainage system. The results of this exceedence can be found in the appendices.

3.7.2 Emissions to Foul Sewer

There was 1 exceedence of the ELVs recorded in Schedule C.4 of the Waste Licence over 4 sampling events in 2016.

3.7.2.1 pH

pH results were typically neutral to alkaline during the reporting period.

3.7.2.2 Temperature

Temperature was recorded on 3 out of the 4 occasions during the reported period. The temperatures recorded were within the specified limits as set out in Schedule C.4 of the Waste Management Licence. The temperature recorded for this reporting period ranged between 13 and 21°C.

3.7.2.3 Biochemical Oxygen Demand

No exceedence occurred during the monitoring period. The maximum and minimum BOD levels were recorded at 149mg/l and 24 mg/l respectively. The Average level was 61.5 mg/l.

3.7.2.4 Chemical Oxygen Demand

All levels measured during the reporting period were compliant with the Emission Limit Value as set out in the Waste Licence W0003-03. The levels ranged from 75 mg/l to 269 mg/l. The Average level was 164.3 mg/l.

3.7.2.5 Ammonia

1 exceedence was recorded in April 2016 and was reported during the previous reporting period. The Average level was 15.5 mg/l. The maximum level was measured at 67 mg/l which exceeded the ELV of 50mg/l.

3.7.2.6 Total Suspended Solids (TSS)

No exceedence was reported during the previous reporting period. Average levels were 48 mg/l with a maximum figure of 115 mg/l recorded.

3.7.2.7 Oils Fats and Grease (OFG)

All recorded values during the reporting period were compliant with the Emission Limit Value as set out in the Waste Licence 0003-03. The average level recorded for the year was 2 mg/l.

3.7.2.8 Detergents

As with the previous reporting year, all samples for this period indicate compliance with the ELV for detergent emissions to foul sewer. The levels throughout the period recorded less than 0.31 mg/l.

3.7.2.9 Sulphates

All samples for this period indicate compliance with the ELV for detergent emissions to foul sewer. The average levels recorded for this reporting year was 26.5 mg/l, with a maximum value of 29.0 mg/l recorded.

3.7.3 Noise

The results presented in Table 3.2 indicate that daytime and night-time noise levels recorded exceeded licence limits at 8 out of the 10 monitoring points during daytime and night-time monitoring.

Road traffic was the dominant source of noise (LA)₁₀ at all of the locations, which primarily emanates from the busy Greenhills Road which adjoins the site and the M50 motorway.

These results indicate that the facility has no significant impact on the surrounding environment. There were no complaints received at the baling station for noise nuisance.

There was no audible tonal component or impulsive emission from the facility at any monitoring location during the day time or night-time.

3.7.4 Dust and Air Quality Monitoring (PM₁₀)

The results presented in Table 3.3 indicate that the TA Luft limit for dust deposition (350mg/m²/d) was not exceeded during the reporting period at monitoring locations (D1-D3).

One set of monitoring results was obtained for PM₁₀ levels at locations D1-D3. None of the results for PM₁₀ exceeded the Emission Limit Value as set out in the Waste Licence 0003-03.

3.7.5 Odour Monitoring

Direct Odour monitoring of the abatement stack was carried out on a quarterly basis during the reporting period.

To support daily odour inspections carried out by the Environmental Manager or suitably qualified person, quarterly odour monitoring was initiated as required per licence W0003-03. Independent monitoring consultants conducted the quarterly monitoring at the facility. On completion of the monitoring, a report is issued assessing the impact of the operation on its environs. The assessments are presented in the form of odour concentration contours produced using US EPA approved dispersion modelling techniques.

All direct stack odour threshold concentrations had an average range between 1195 OUE/m³ and 349 OUE/m³ for the reporting period 2016. Seven complaints were received at the facility during the 2016 reporting period.

4. SITE DEVELOPMENT WORKS

Works undertaken to, at a minimum, comply with the Licence conditions during the reporting period are summarised in Table 4.1.

Requirement	Time Scale
Divert mattresses from landfill for recycling and recovery	Achieved
Implement pay by weight system for MSW in CA	Not Achieved

Table 4-1 Site Development Works during Reporting Year

Requirement	Time Scale
Install a designated MSW area in the Civic Amenity	December 2017
Install new CCTV system to complement the existing system.	December 2017

Table 4-2 Site Development Works for the Forthcoming Year

5. WASTE RECEIVED BY AND CONSIGNED FROM THE FACILITY

5.1. Wastes Pre-Treated, Baled and Compacted

5.1.1 Waste Composition

In February 2013 South Dublin County Council entered into a licence agreement with Panda Waste Services for the operation of the waste transfer station only. On February 1st 2013 MSW was accepted at Ballymount waste transfer station from Panda Waste Services along with the Civic Amenity and other permitted third party waste collectors. This agreement with Panda Waste Services has continued at the waste transfer station. The quantities of waste accepted at the Waste transfer station only are summarised in Table 5.1.

Sources of MSW	Tonnes 16	Tonnes 15	Tonnes 14	Tonnes 13	Tonnes 12	Tonnes 11
Dublin Corporation (DCC)	0	0		0	3,560	62,172
South Dublin County Council (SDCC)	0	0	0	0	0	8,498
Civic Amenity	2,213.13	2271.21	3156.40	3,156.4	3,419	10,065
Panda Waste Services & Other	92,664.96	159,449.43	154,789.68	154,529.3	0	2,199
Total	94,878.09	161,720.64	157,946.08	157,685.70	6,979	82,934

Table 5-1 MSW Quantities into Facility

5.1.2 Baled and Compacted Waste Quantities

Monthly quantities of treated, baled and wrapped waste sent to incineration as EWC 191212 are shown in Figure 5.1.

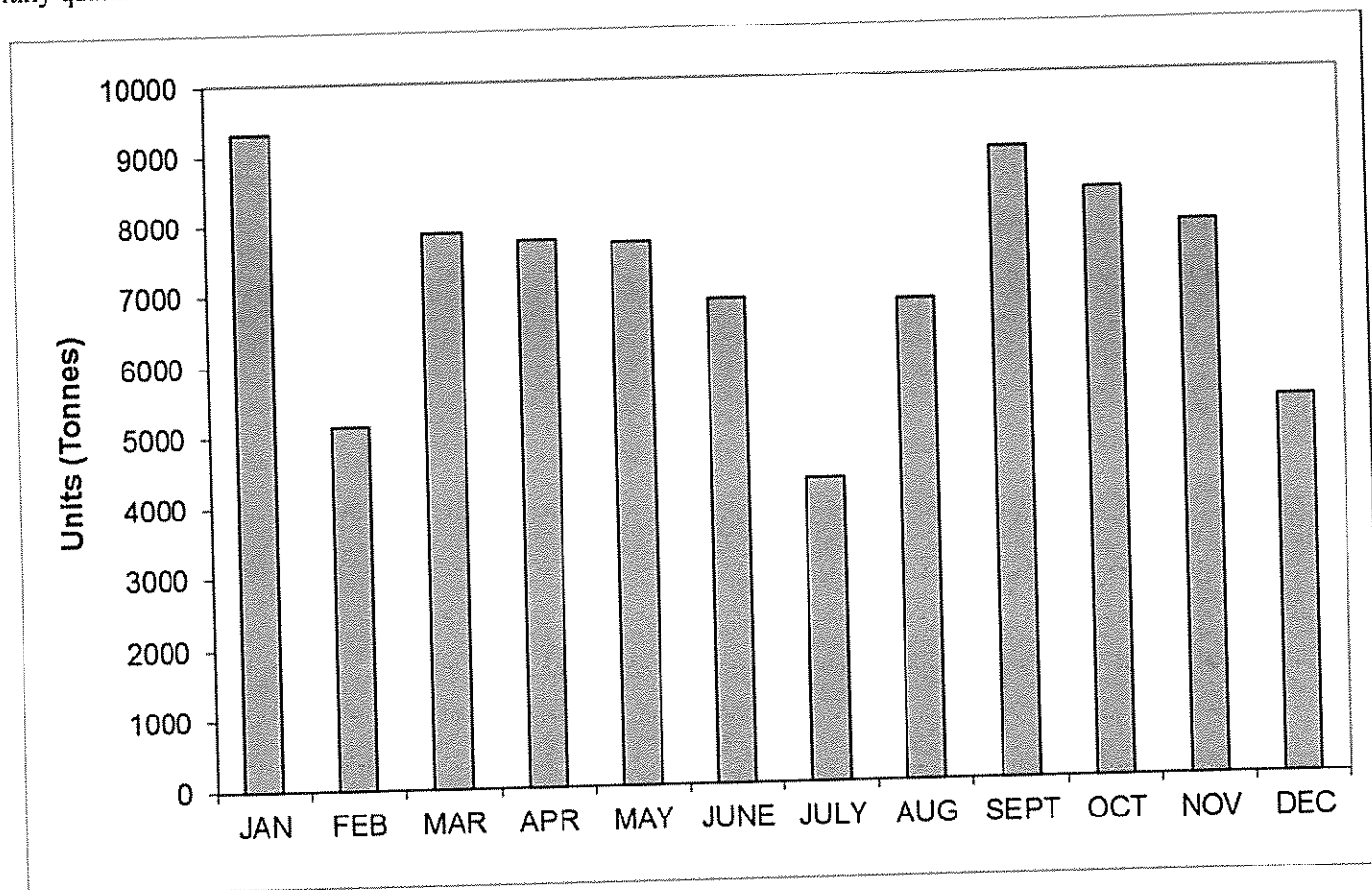


Figure 5.1 Monthly Waste Quantities to Incineration 2016

5.1.2 Treatment of MSW Quantities 2016

The following tonnages were recovered following the treatment of MSW at the waste transfer station:

- Organic Fines: 7992.11
- Bulky Waste: 52.59
- Steel: 310.21

5.2. Civic Amenity

5.2.1 Waste Composition to Civic Amenity

The Civic Amenity Facility is a waste deposit facility for recyclable and non-recyclable waste delivered by members of the general public. Receptacles are provided for the deposit of glass, textiles, plasterboard, rubble, household hazardous, waste oil, paper, green waste, waste oil, batteries, beverage cans, plastics, scrap metal and white goods/ electrical items. Quantities of each of these wastes received are shown in Table 5.2 and Figure 5.2.

Bulky waste referred to in Table 5.2 consists of waste, which due to its bulky nature is unsuitable for baling/compaction. This waste typically consists of furniture, timber and mattresses, in general, materials that cannot be compacted to produce physically stable bales. Bulky waste was collected in bins at the Civic Amenity and is sent off site for recovery.

Description	Tonnes 2016	Tonnes 2015	Tonnes 2014	Tonnes 2013	Tonnes 2012	Tonnes 2011	Tonnes 2010	Tonnes 2009	Tonnes 2008
Glass	91.35	88.76	97.94	100.87	114.4	99.12	103.94	118.54	135.81
Paper	98.34	110.10	74.64	73.28	78.38	52.70	51.62	51.68	68.67
Textiles	45.42	30.06	27.47	22.28	29.81	25.63	29.62	40.18	37.73
WEEE	761.23	704.63	620.91	668.7	748.83	781.04	855.38	873.90	882.53
Plastic	93.9	64.26	80.12	75.46	31.33	11.30	18.04	9.64	33.66
Waste Oil	28.26	24.94	24.56	24.4	32.72	43.56	36.72	26.86	47.9
Green waste	1,803.26	1,642.70	2076.12	1757.73	2145.36	1,940.86	2,307.12	1850.06	1,454.58
Batteries	8.72	16.19	10.18	12.72	13.14	14.14	21.06	23.72	27.36
Beverage cans	1.26	2.17	1.02	1.12	2.82	1.64	1.41	1.31	2.85
Metal	521.22	365.24	340.64	321.80	331.42	343.32	440.55	447.20	513.64
Black bag Waste (MSW)	3281.96	2,972.81	3,156.40	3215.46	3419.11	3582.3	3653.84	3238.16	3722.62
Bulky waste	5181.46	5713.07	5,113.08	4949.85	5581.86	6483.12	6,077.04	7499.35	7464.49
Household Hazardous	141.1	92.58	26.22	35.2	33.73	33.66	24.9	29.32	45.2
Plasterboard	54.64	97.84	32.16			8.54	41.76	46.16	61.55
Rubble / C&D	1,469.39	881.4	846.3	723.02	698.89	789.08	724.66	655.48	777.57
Cardboard	349.1	267.43	266.38	257.98	277.84	206.78	230.2	232.49	
Waste Edible Oil	.86	1.50	1.80	1.18	1.38	0.94	.60	0.74	
Wood	1858.21	774.78	483.98	484.98	270.11	66.02	140.06	336.76	
Ink Cartridges	0	0	0.66	0.58	1.16	0.28	0.36	0.20	
Gas Cylinders	3.74	4.73	2.82	1.71	3.60	3.54	4.46	5.82	
Metal Packaging						.20	0.92		
Total Civic Amenity	15,797.12	13,855.12	13,283.40	12,729.35	13,816.15	14,487.6	14,764.1	15,487.6	15,276.1

Table 5-2 Composition of Waste Received at the Civic Amenity Facility

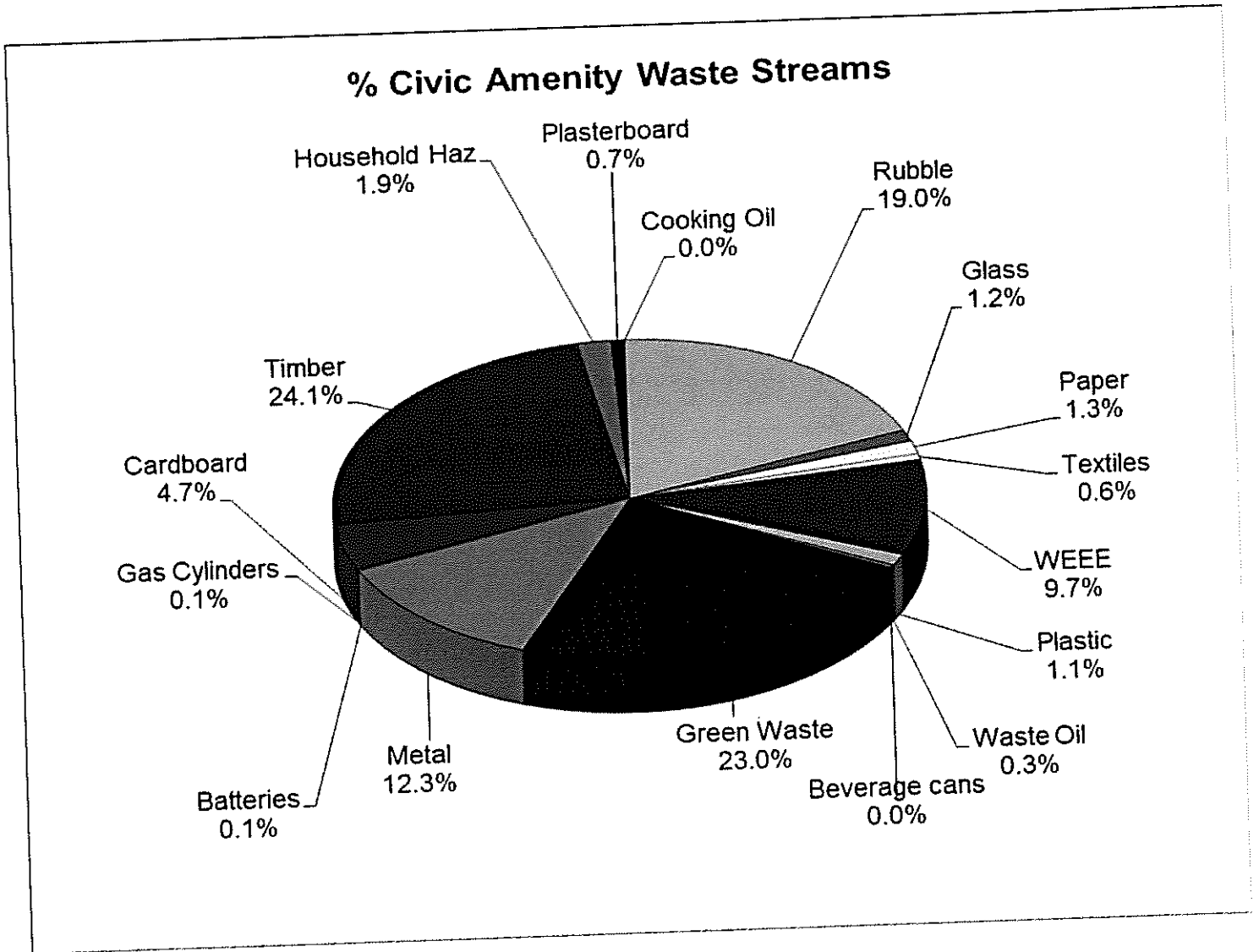


Figure 5.2 Recyclable Waste Types Received at the Civic Amenity Facility

5.3 Waste Received and handled

Waste received at the baling facility during the reporting period amounted to 94,878.09 tonnes, which is 229,601.91 tonnes below the Licence limit of 324,480 tonnes per annum

The following figure is a summary of the waste movements to and from the facility. Small differences in quantities entering and leaving the site are due to the 4% allowed tolerance error on the weighbridge (Class III accuracy: Source EN45501: 1992).

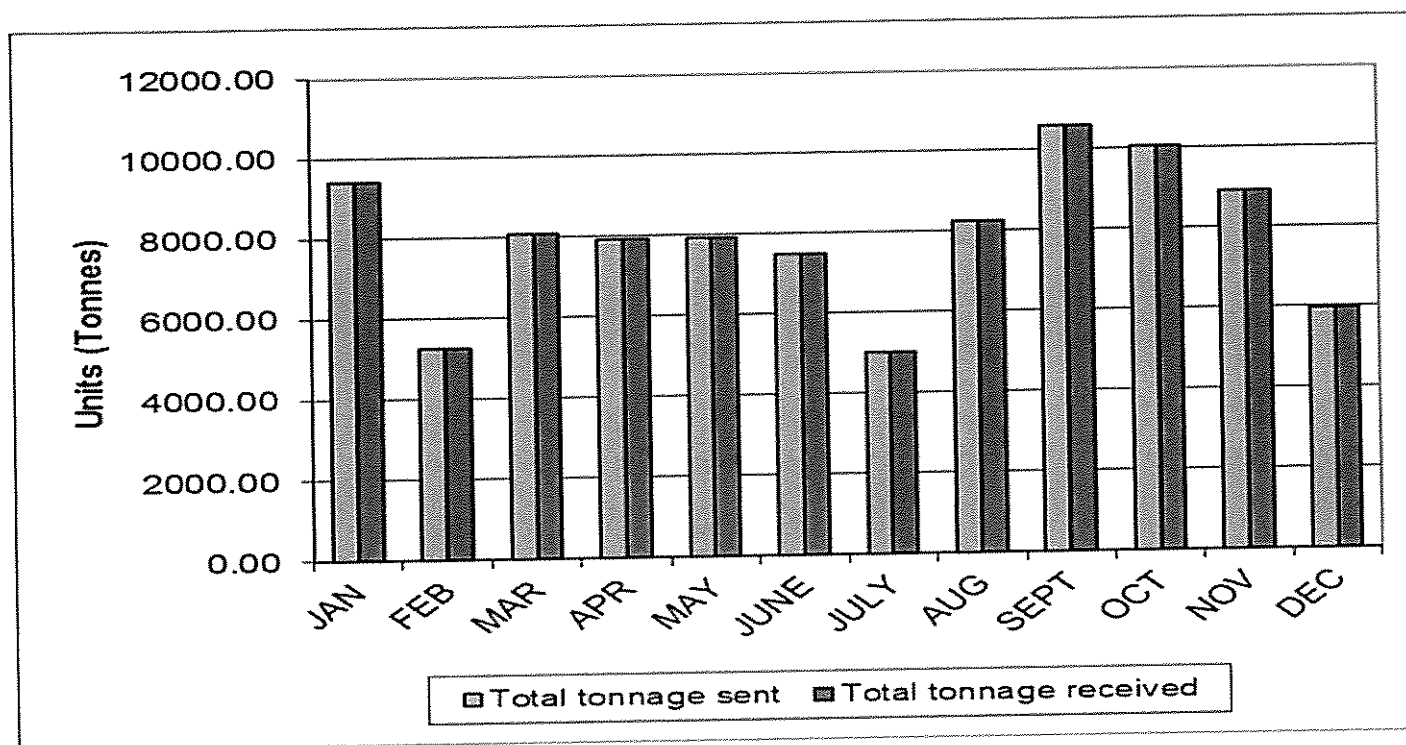


Figure 5.3 Tonnage Received and Sent in 2016 to the Baling Station and to Incineration or recovery

6. NUISANCE CONTROL

6.1. Odour Control

Historically odour was the largest source of nuisance for the facility resulting in 100% of all complaints received at the facility.

6.1.2 Daily Odour monitoring

In compliance with Condition 10.3 of the Waste Licence, a daily odour inspection of the facility environs is carried out and staff of the Council’s Environmental Services Department keeps a written record.

6.1.3 Quarterly Odour Monitoring

In Compliance with Schedule D.6 of the Waste Licence, an independent contractor carries out quarterly odour monitoring.

6.1.4 Odour Emission control system

The in-situ odour emission control system is a dry dust filtration and annular bed activated carbon filtration system. The annular activated carbon filtration unit provides improved guaranteed odour removal efficiencies and also provide an increase in treatment capacity for the facility.

- Increased design treatment capacity of approximately 25,000 m³/hr and a maximum increased treatment capacity of up to 30,000 m³/hr.
- Increased odour threshold concentration performance to 300 OuE/m³.
- Continuous performance independent of cyclic odour loading.
- Elimination of dust and particulate plugging of the bed medium through the use of a regenerative self-cleaning dust filtration plant.

6.2. **Litter Control**

In compliance with Condition 7.4 of the Waste Licence, the licensee removes any litter in or around the facility immediately. A watering/sweeping machine is present on site at all times. No complaints were received at the baling station for litter nuisance.

6.3. **Dust Control**

In compliance with Condition 7.6 of the Waste Licence, in dry weather the roads and hard standing areas are sprayed with water as and when required. No complaints were received at the baling station for dust nuisance.

6.3.1. Dust Monitoring

In Compliance with Schedule D.6 of the Waste Licence, an independent contractor carries out dust monitoring three times a year.

7. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

7.0 Incidents Summary

Condition 11.2 of the Waste Licence requires that the licensee shall make written records of the environmental incidents. There was 1 incident recorded during the reporting period.

7.1 Complaints Summary

There was seven complaints received from local residents or commercial interests during the reporting period.

7.2 Corrective Action

7.2.1 Surface Water

- ❖ The current cleaning procedures of the site have been reviewed with stringent and improved cleaning regime has been implemented
- ❖ The procurement of an additional yard sweeper which will routinely sweep the site daily.
- ❖ Full time cleaning / compliance operative has been employed.
- ❖ All cleaning and jetting frequency of all foul and surface water lines, along with all gullies has been increased.

7.2.2 Odour

- ❖ An activated carbon odour control unit is in place to treat malodorous air.
- ❖ Daily odour inspections conducted.
- ❖ Quarterly Odour monitoring conducted by independent consultants.
- ❖ The activated carbon was replaced in August 2016.
- ❖ The dust filters were replaced in November 2015.

7.3 Non-Compliance Summary

5 non-compliances were received at the facility during the Reporting period:

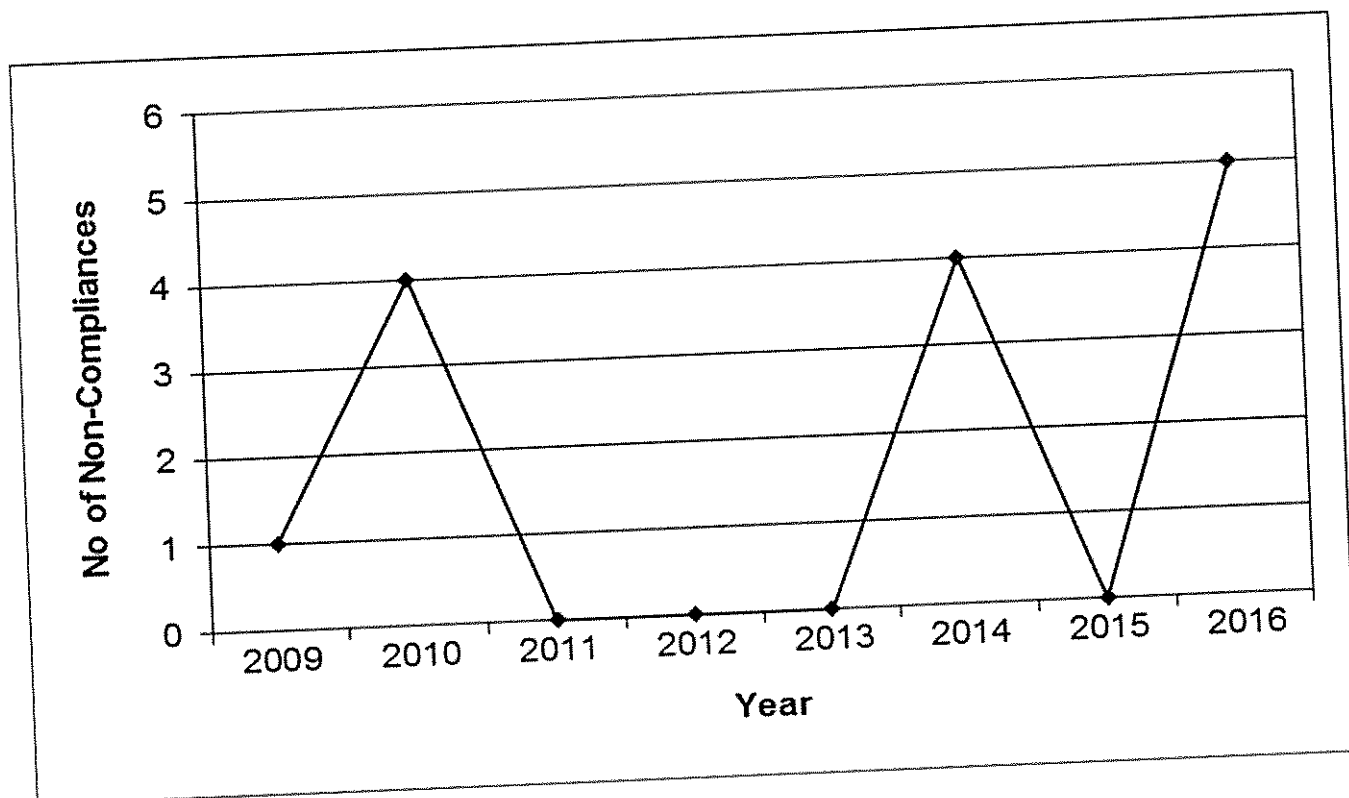


Figure 7.1 Number of Non Compliances

8. ENVIRONMENTAL MANAGEMENT PROGRAMME

8.1. Report

In compliance with Condition 2.3 of the Waste Licence, a review was carried out of the Environmental Management Plan (EMP); the reviewed EMP was last submitted to the Agency for agreement on the 31st March 2012. The Agency asked that no EMP plan was to be submitted to them after 2012. A review of The Environmental Management Plan was conducted in 2016 and a copy kept onsite at the facility. Site operational procedures are described in the EMP. The schedule of Environmental Objectives and Targets for the reporting year, and a proposal for the forthcoming year, are summarised below.

8.1.1. Schedule of Environmental Objectives and Targets

A detailed Schedule of Environmental Objectives and Targets for the reporting period is presented in Table 8.1.

8.1.2. Achievement of Environment Objectives and Targets

In all cases the Council has made significant efforts to achieve all of the targets set by the individual objectives. Not all targets were achieved within the reporting period but corrective measures were put in place when difficulties were encountered. A summary of the targets achieved is presented in Table 8.1.

The overall responsibility for achieving these objectives and targets lies with the Senior Engineer of South Dublin County Council and Managing Directors of the Facility Management. Items referred to within these objectives are site specific and are the combined responsibility of the Council's Environmental Manager and The Facility Management.

Objective/ Target	Description	Status
Objective 1	To ensure continued implementation of the environmental Policy	
Target 1.1	Continue to conduct Environmental Training refresher course for all Baling Station Staff.	Achieved- Ongoing.
Target 1.2	Refresher Forklift Training	Achieved
Target 1.3	Refresher Front End Loader Training	Achieved
Target 1.4	Refresher teleporter training	Achieved
Target 1.5	MEWP training	Achieved
Objective 2	To promote public awareness of the facility and encourage use of the civic amenity/recycling facilities	
Target 2.1	Further expansion of recycling facilities at the Civic Amenity Facility by increasing the number of waste types accepted for recycling.	Achieved
Target 2.2	Upgrade signage at entrance gate and within the Civic Amenity	Achieved
Target 2.3	Introduce pay by weight for MSW in Civic Amenity	Not Achieved
Target 2.4	Introduce Mattress recovery and recycling	Achieved
Target 2.5	Introduce Public awareness recycling flyer	Achieved
Objective 3	To Continue site development/improvement	
Target 3.1	Install designated MSW disposal area	Not Achieved
Target 3.2	Install extra CCTV	Not Achieved

Objective 4	To minimise the environmental impact arising from nuisance caused by the facility	
Target 4.1 Target 4.2 Target 4.3	Reduction of water consumption Decrease in the use of electricity Undertake energy audit of the facility	Achieved Achieved Achieved
Objective 5	To comply with Emission Limit Values in Schedule E of Waste Licence	
Target 5.1 Target 5.2	Reinstall Bio-Tubes to all interceptors to reduce OFG levels. Replace Activated Carbon in odour control system.	Achieved Achieved
Objective 6	To successfully control emergencies at the facility	
Target 6.1 Target 6.2 Target 6.3 Target 6.4	Review and update of safety statement, site health and safety plan and site risk assessments Introduce new Environmental Response Plan Introduce new Health and Safety response Plan Conduct Emergency response training with staff	Achieved Achieved Achieved Achieved

Table 8-1 Achievement of Environment Objectives & Target

8.2. Proposal

The Environmental Objectives and Targets proposed for the forthcoming year (listed in Table

Target Number	Description	Time Frame	Responsibility
Target 1.1	Continue to conduct Environmental Training refresher course for all Baling Station and Civic Amenity Staff	December 2017	Env. Manager
Target 1.2	Refresher Forklift Shunter	December 2017	H&S Manager
Target 1.3	Refresher Front End Loader Training	June 2017	H&S Manager
Target 1.4	Refresher tele-porter training	December 2017	H&S Manager
Target 1.5	MEWP training	June 2017	H&S Manager
Target 1.6	Fire Extinguisher training	June 2017	H&S Manager
Target 1.7	First Aid Refresher training	June 2017	H&S Manager
Target 2.1	Further expansion of recycling facilities at the Civic Amenity Facility by increasing the number of waste types accepted for recycling.	December 2017	Env. Manager
Target 2.2	Introduce pay by weight for MSW in Civic Amenity	December 2017	Env. Manager
Target 2.3	Introduce Public awareness recycling flyer	July 2017	Env. Manager
Target 2.4	Increase no. of school tours and awareness visits	December 2017	Env. Manager
Target 3.1	Install designated MSW disposal area	December 2017	Facil Manager.
Target 3.2	Install extra CCTV	December 2017	Facil Manager.
Target 3.2	Introduce firebreaks within baling station	September 2017	Facil Manager.
Target 4.1	Reduction of water consumption	December 2017	Facil Manager
Target 4.2	Decrease in the use of electricity	December 2017	Env. Manager
Target 5.1	Replace Activated Carbon in odour control system.	August 2017	Env. Manager.
Target 5.2	Replace dust filters in Odour control system	September 2017	Env. Manager
Target 5.3	Review and improve foul and surface water cleaning regime	January 2017	Facil Manager
Target 5.3	Employment of full time site compliance operative	January 2017	Facil Manager
Target 6.1	Review and update of safety statement, site health and safety plan and site risk assessments	December 2017	H&S Manager
Target 6.2	Conduct Emergency response training with staff	December 2017	Env. Manager
Target 6.3	Review Fire Risk Assessment	March 2017	H&S Manager
Target 6.4	Fire Drill	August 2017	H&S Manager

Table 8-2 Proposed Environment Objectives & Targets for 2016

Table 8.2 proposed environment objectives and targets are based on the requirements of the current Waste Licence. However, should the Agency grant a revised licence within this period, the proposed schedule would in turn require revision to reflect any new conditions.

8.3 Operational and Environmental Procedure

Documented operating procedures for the Waste transfer station, which are described in detail in the Environmental Management Plan are sub-divided as follows: -

- Standard Operating Procedures
- Environmental Procedures
- Emergency Response Procedures

A brief summary of these is provided below.

8.1.3. Standard Operating Procedures

Standard Operating Procedures have been developed for each of the routine operations conducted at the facility. The purpose of these is to ensure that routine tasks are carried out in the same manner each time they are undertaken, even if different operators perform them. Their implementation will encourage quality as well as safe work practices. Regard is also had for the site specific Safety Statement when carrying out any operations at the facility.

The routine operations identified are as follows:

- SOP 001- Weighbridge operation
- SOP 002- Waste Acceptance at the Waste transfer and Civic Amenity Facility
- SOP 003- Compaction of waste
- SOP 004- Loading and shunting of containers
- SOP 005- Environmental Monitoring;
- SOP 006- Housekeeping;
- SOP 007- Operation Of Odour Control System
- SOP 008- Operation/Maintenance Of Wastewater Treatment Works
- SOP 009- Opening/Closing Of Waste Reception Shutters
- SOP 010- Weekly Drainage Inspection
- SOP 011- Fuel Storage and Pollution Control Inspection
- SOP 012- Weekly Interceptor Inspection
- SOP 013- Monthly Over ground Inspection Form
- SOP 014- Emergency Generator Operation/Maintenance
- SOP 015- Nuisance Inspection

8.3.2. Environmental Procedures

Environmental procedures have been developed in order to maintain the Environmental Management System and to ensure continued improvement in the operation and management of the facility. Environmental Procedures are subject to change on evaluation. The Environmental Procedures are as follows:

- EPROC 001- Corrective Action Procedures
- EPROC 002- Awareness and Training Procedures
- EPROC 003- Incident Response and Reporting Procedures
- EPROC 004- Complaints Procedures

8.3.3. Emergency Response Procedures

Condition 10.1 of the Waste Licence requires that a written Emergency Response Procedures (ERP) be submitted. An updated document describing these procedures was updated in June 2015. Emergencies have been defined as unexpected events, which prohibit the waste processing operation or reduce waste processing capacity, or any occurrence resulting in non-compliance with the conditions of the Waste Licence. Potential emergencies at the facility can be grouped under the following headings: -

- Inability to process waste.
- Inability to transport waste to receiving facility.
- Threats to staff health and safety.
- Threats to the environment.

The ERP document, which is maintained in the facility office, contains detailed procedures and a list of emergency contact numbers to be used in the event of an emergency. A copy of the Council's "Major Emergency Plan" is also maintained in the facility office.

8.3. **Management and Staffing Structure**

The Council, as the licensee, operates the facility under the terms of an agreement with Panda Waste Services. The organisational structure for the facility is shown in Figure 8.1.

Operations at the facility are carried out in two distinct areas, namely the Waste transfer station and the Civic Amenity Facility. The Management Committee, the Environmental Manager, the Facility Manager and the Operations Supervisor have delegated responsibilities for operations management and supervision in both areas.

Each of the positions identified in Figure 8.1 are discussed in detail in Section 6 of the Environmental Management Plan for the reporting year. Details of the relevant experience and qualifications for each person named, as well as arrangements for absence in the case of annual leave, illness and other absences, are maintained in the facility office and have also been forwarded to the Agency as required by Condition 2.2.

A file consisting of training records for each employee is also maintained in the facility office.

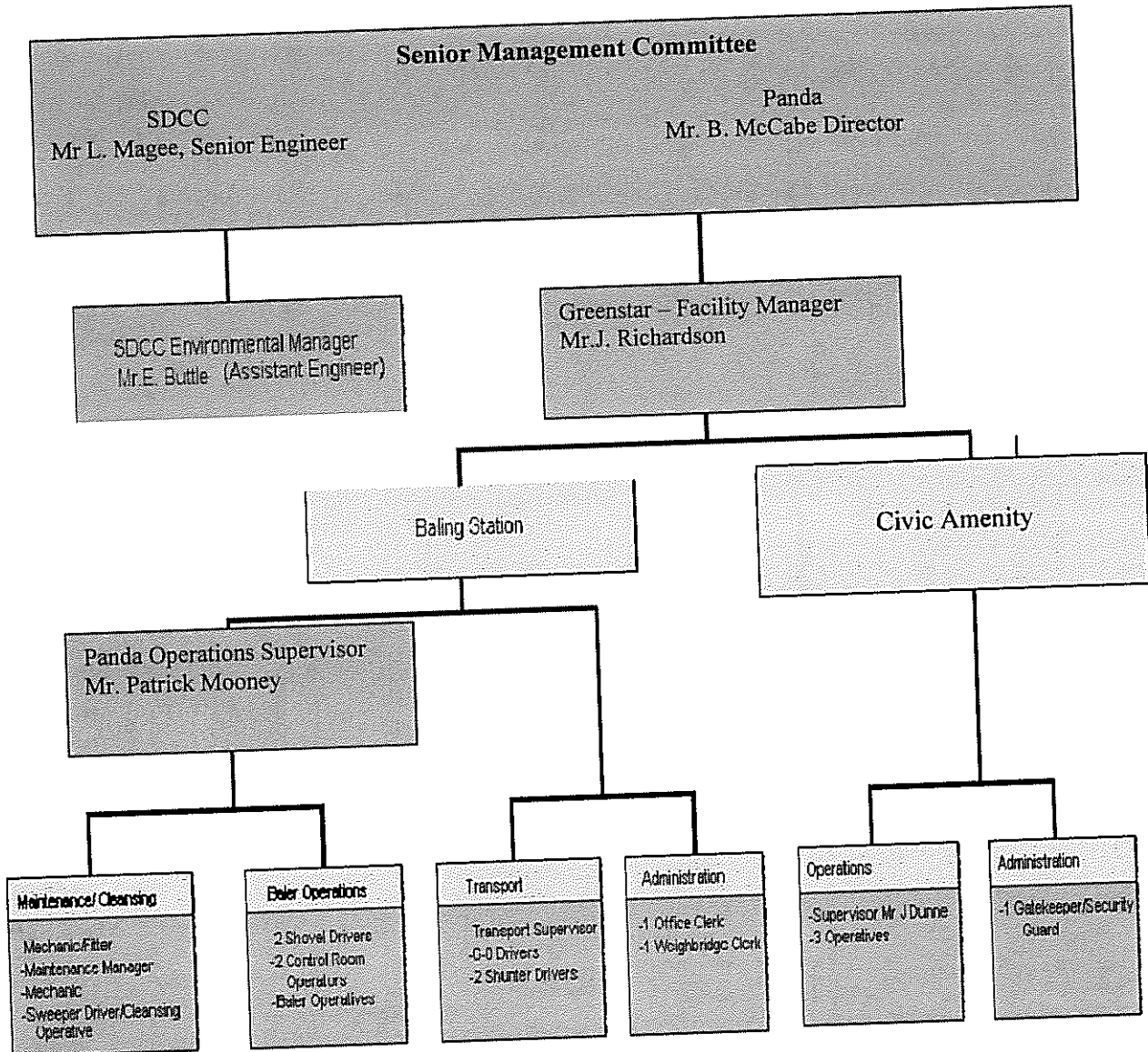


Figure 8.1 Management and Staffing Structure

9. TANK AND BUND TESTING

Condition 3.13.5 of the Waste Licence requires that tank and bund testing be carried out once every three years. All Bunds on-site were tested to BS8007: 1987 between November and December 2015. At the end of 2015 reporting period all onsite Bunds met the requirements.

10. RESOURCE CONSUMPTION SUMMARY

Resources consumed at the facility include electricity, water, diesel fuel, steel wire, cleaning products, odour products and hydraulic oil. The principle consumers of energy at the facility are summarised in Table 10.1. Resource consumption is also presented in table 10.2 and figures 10.1 - 10.3.

Plant Item	Resource Used
Baling/ Ancillary Equipment	Electricity
Odour Control System	Electricity and Water
Mobile Plant	Green Diesel
Road Transfer Fleet	White Diesel

Table 10-1 Principle Resource Consumers

Resource	Quantity Used
Diesel Fuel	54,228 litres
Bale Netting	53 tonnes
Electricity	1,290,525 kWh
Water	915 m ³
Cleaning Agents	
Grime Away	1,500 kgs
Clean Air	165 kgs
Plastic Wrap	165 tonnes

Table 10-2 Energy and Resources (January 16 – December 16)

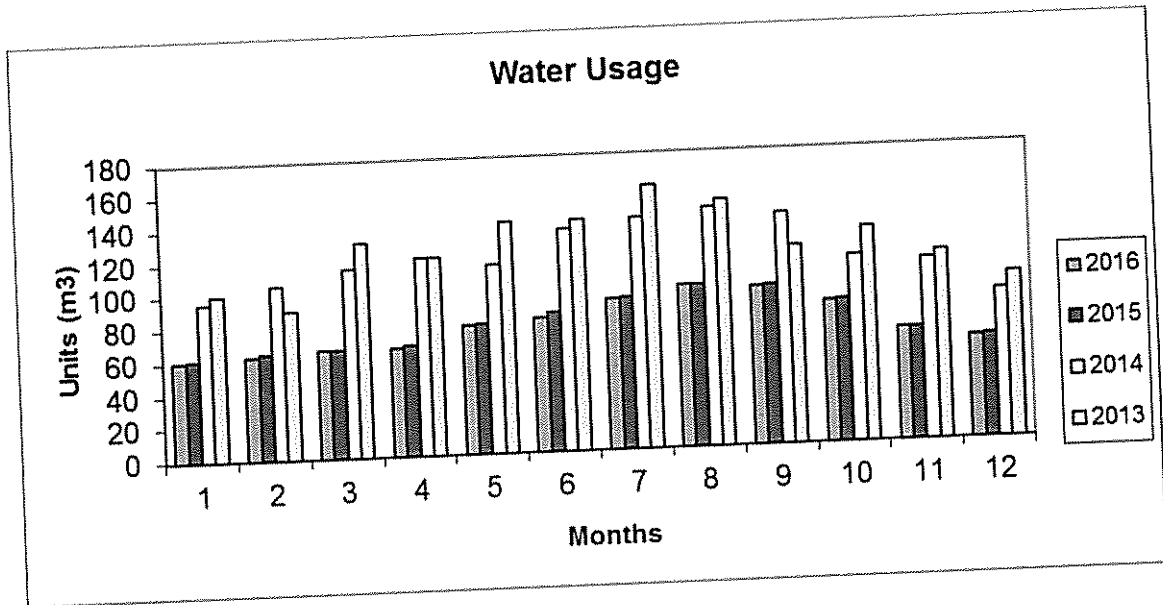


Figure 10.1 Water Use

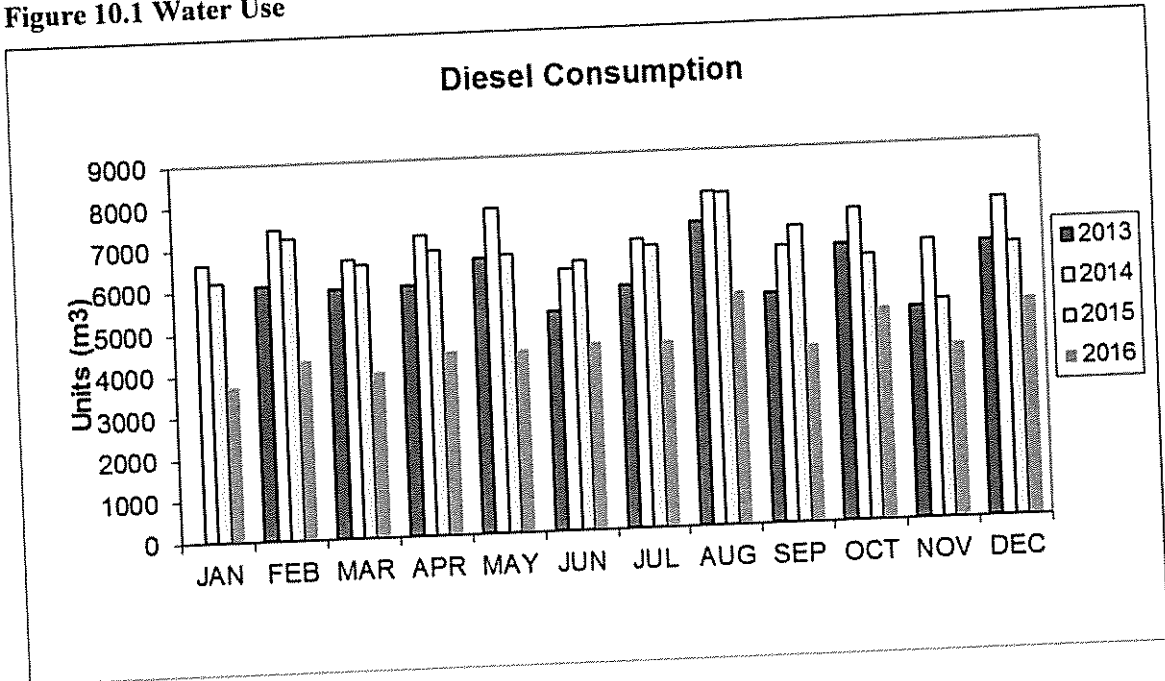


Figure 10.2 Diesel Consumption

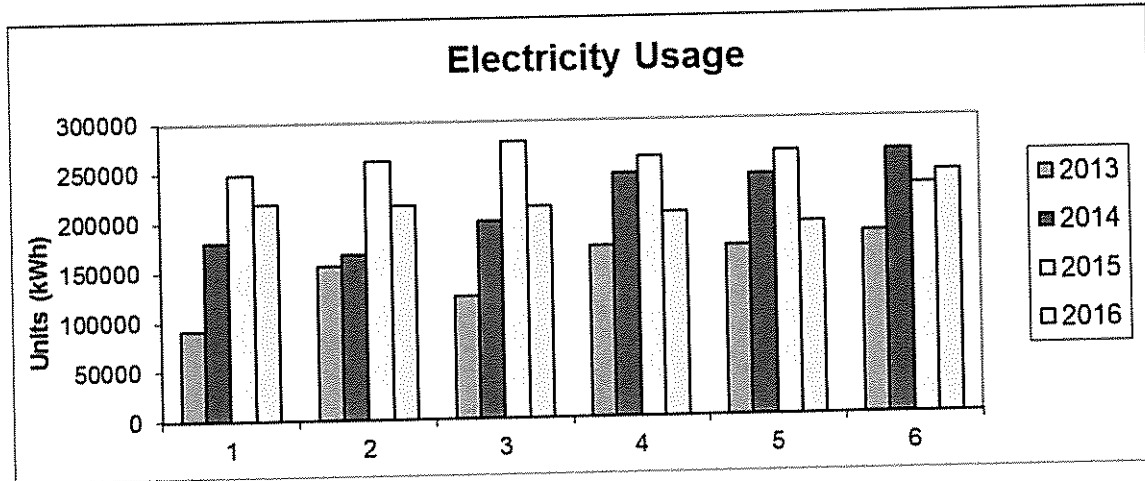


Figure 10.3 Electricity Consumption

11. REPORT ON PUBLIC INFORMATION FILE

During the 2016 reporting period there was no application received to see the public inspection file.

Pertinent documentation available for public inspection include:

1. Environmental Record File
2. Environmental Monitoring Reports File (Volumes 1-4)
3. Complaints Register
4. Waste Licence
5. Environmental Management Plan
6. Emergency Response Procedures

Members of the public, who wish to view information describing environmental performance of the facility in 2016, can do so by phoning the facility. The facility contact numbers are posted on the main facility entrance sign. The names of the appropriate personnel are as follows:

Mr. John Richardson
Panda Waste Management
Facility Manager

Mr. Eoin Buttle
South Dublin County Council
Environmental Manager

12. SITE OPERATIONS

12.1. Duty and Standby Capacity of Waste Handling Plant

With the introduction of licence W0003-03 the maximum quantity of municipal waste to be accepted at the facility has decreased to 324,480 tonnes. In compliance with condition 1.7 of the waste licence the hours of operation has been increased 6:30a.m. to 9:00 p.m. Monday to Saturday inclusive.

The total baling capacity of the machines is c.50 tonnes/hr, which suggests an annual 100% uptime capacity of 226,200 tonnes. During this reporting period the facility was closed for 2 days at Christmas, and a monthly average of less than 4% to 5% operational downtime. The quantity of municipal waste baled for energy recovery at the facility for the reporting period was 86,151.49 tonnes.

This suggests the Duty Capacity of the waste handling equipment was 140,048.51 tonnes and the Standby Capacity was 238,328.51 tonnes for this reporting period.

12.2. Ventilation plant capacity and Spares

The Odour emissions control system was installed 10th December 2007 on the receiving and waste areas of the facility. The unit was installed to the following performance design:

• Volume Flow Rate	<i>100,000 m³/hr</i>
• Inlet Odour Capacity	<i>5,000 OUE/m³</i>
• Outlet Odour Concentration	<i>150 OUE/m³</i>
• Temperature	<i>Ambient</i>
• Relative Humidity	<i>50-100 %</i>
• Stack Height	<i>12m</i>
• Stack Diameter	<i>1.6m</i>

Spares for the odour and emissions control system are kept on site in the western storage area, these include:

Fan Spares:	
Component	No. off
Bearing set for fans	2 No.
Dustfilter Spares:	
Filter Cartridge	6 No.
Diaphragms	15 No.
Solonoids	15No.
Carbon Spares:	3 Tonnes

13. ENVIRONMENTAL LIABILITIES AND DECOMMISSIONING

13.1. Decommissioning Plan

As per licence condition, 12.2 a Financial Provision for decommissioning is in place by the Council. A copy of the decommissioning plan is available for viewing at the facility office by appointment.

13.2 Environmental Liability Risk Assessment

As per licence condition 14.1, an Environmental Liability Risk Assessment is in place by the Council. A copy of the Environmental Liability Risk Assessment is available for viewing at the facility office by appointment. The assessment details measures taken in relation to the prevention of environmental damage. A cost of 1,224,606 has been quantified. These costs, along with the costs of the subsequent post incident remedial works, will be recouped from the facility insurance policy.

APPENDIX

Parameter	Sample Point	Licence W0003 (mg/l)	Jan	April	Jul	Oct
pH	1(us)	5.5 - 9.0	8.3	8.0	8.0	7.5
	2(us)	5.5 - 9.0	7.5	8.0	6.1	7.5
	3(ds)	5.5 - 9.0	7.6	8.0	6.3	7.6
BOD (mg/l)	1(us)	25.0	5.0	2.0	2.0	6.0
	2(us)	25.0	4.0	3.0	2.0	8.0
	3(ds)	25.0	3.0	2.0	2.0	8.0
COD (mg/l)	1(us)	150.0	26.0	5.0	7.0	21.0
	2(us)	150.0	22.0	6.0	4.0	30.0
	3(ds)	150.0	22.0	11.0	8.0	14.0
Suspended Solids (mg/l)	1(us)	35.0	1.0	1.0	1.0	6.0
	2(us)	35.0	1.0	1.0	1.0	8.0
	3(ds)	35.0	4.0	1.0	1.0	4.0
Mineral Oil	1(us)	5.00	0.031	0.064	0.010	0.010
	2(us)	5.0	0.026	0.056	0.010	0.010
	3(ds)	5.0	0.010	0.088	0.010	0.010

*us – upstream of baling centre

ds – downstream of baling centre

Date Sampled: 15/12/2016				
	Sample ID	SE1A	S2	S3
DETERMINAND	Lab ID	134149	134147	134148
BOD	n/a	154	20	15
COD	n/a	780	193	142
pH (pH Units)	**	7.0	7.7	7.7
Suspended Solids	n/a	442	215	151

Table 13-1 Surface Water Monitoring Results 2016

	Jan	April	July	Oct
pH	8.3	8.4	7.4	6.9
Temp (°C)	NR	15.0	21.0	13.0

	Jan	April	July	Oct
BOD5 (mg/l)	28.0	149.0	45.0	24.0

	Jan	April	July	Oct
COD (mg/l)	75.0	269.0	216.0	97.0

	Jan	April	July	Oct
Ammonia-N (mg/l)	18.0	67.0	9.0	4.0

	Jan	April	July	Oct
OFG ** (mg/l)	NR	2.0	2.0	2.0

	Jan	April	July	Oct
Detergents (MBAS)(mg/l)	0.05	0.19	0.05	0.31

	Jan	April	July	Oct
TSS* (mg/l)	17.0	115.0	42.0	18.0

	Jan	April	July	Oct
Sulphates (SO4) (mg/l)	29.0	28.0	25.0	24.0

Table 13-2 Emissions to Foul Sewer 2014

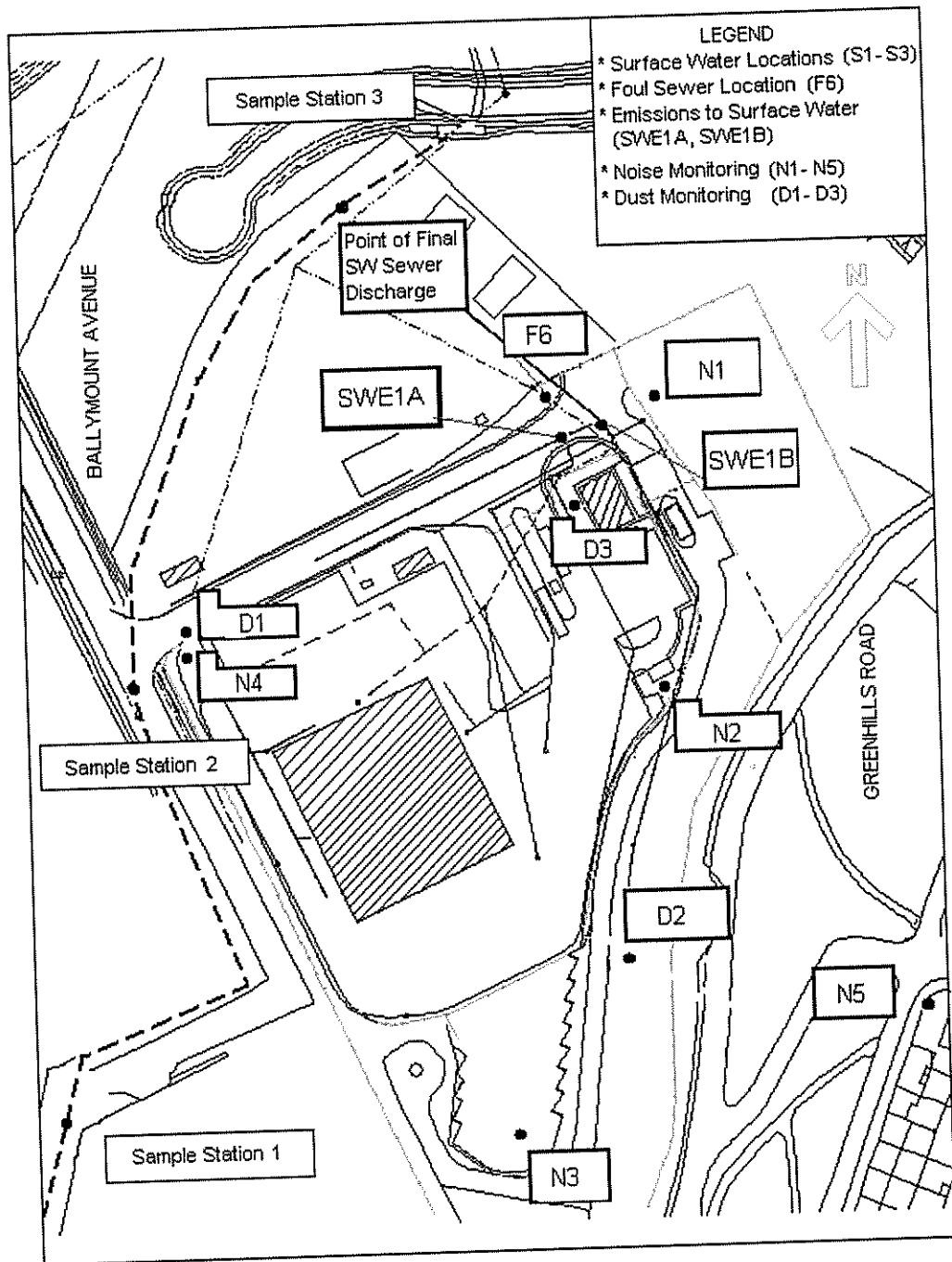


Figure 12.1 Monitoring Location Map

[PRTR# : W0003 | Facility Name : Ballymount Baling Station | Filename : W0003_2016.xls | Return Year : 2016]



Environmental Protection Agency

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR 2016

1. FACILITY IDENTIFICATION

Parent Company Name	South Dublin County Council
Facility Name	Ballymount Baling Station
PRTR Identification Number	W0003
Licence Number	W0003-03

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Ballymount Road
Address 2	Walkinstown
Address 3	Dublin 12
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.34625 53.3105
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	LEO MAGEE
AER Returns Contact Email Address	LMAGEE@SUBLINCOCO.IE
AER Returns Contact Position	SENIOR ENGINEER
AER Returns Contact Telephone Number	01-4149000
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	0
Number of Installations	0
Number of Operating Hours in Year	16
Number of Employees	
User Feedback/Comments	
Web Address	WWW.SDCC.IE

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	No
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
--	----

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS					Please enter all quantities in this section in KGs				QUANTITY	
No. Annex II	POLLUTANT Name	M/C/E	METHOD		Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description						
66	Particulate matter (PM10)	M	OTH	EN12341	0.00000365	0.00000311	0.0000047	0.00001423	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS					Please enter all quantities in this section in KGs				QUANTITY	
No. Annex II	POLLUTANT Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
						0.0	0.0	0.0		

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)					Please enter all quantities in this section in KGs				QUANTITY	
Pollutant No.	POLLUTANT Name	M/C/E	METHOD		Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description						
210	Dust	M	OTH	Dustfall using Bergerhoff Instrument VDI2119	0.00956	0.00886	0.0121	0.03052	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T (total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:	Ballymount Baling Station				Facility Total Capacity m3 per hour
	M/C/E	Method Code	Designation or Description	T (Total) kg/Year	
Please enter summary data on the quantities of methane flared and / or utilised					
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

PRTR# : W0003 | Facility Name : Ballymount Baling Station | Filename : W0003_2016.xls | Return Year : 2016

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Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste / Name and Licence/Permit No of Next Destination Facility Non	Haz Waste / Name and Licence/Permit No of Recover/Disposer	Haz Waste / Address of Next Destination Facility Non Haz Waste / Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used						
Within the Country	13 02 08	Yes	26.38	other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd,W0184-2	Enva Ireland Ltd	Enva Ireland,W0184-2	Enva Ireland,W0184-2	Clonminam Industrial Estate
Within the Country	15 01 01	No	61.55	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Clonminam Ind	2,Clonminam Industrial Estate	Clonminam Industrial Estate	Portlaoise, Laois, Ireland
Within the Country	15 01 02	No	0.0	plastic packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	
Within the Country	15 01 02	No	0.0	plastic packaging	R3	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park, W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland	Grange, Ballycoolin, Finglas, Dublin, Ireland	Grange, Ballycoolin, Finglas, Dublin, Ireland	
Within the Country	15 01 04	No	1.26	metallic packaging	R4	M	Weighed	Offsite in Ireland	Glassco/Rehab,WFP-KE-08-0357-01,Kildare,Ireland,Kildare,Ireland,Kildare,Ireland	
Within the Country	15 01 07	No	91.35	glass packaging	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	
Within the Country	16 01 19	No	0.0	plastic gases in pressure containers other than those mentioned in 16 05 04	R3	M	Weighed	Offsite in Ireland	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	
Within the Country	16 05 05	No	3.74	those mentioned in 16 05 04	R5	M	Weighed	Offsite in Ireland	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	Calor Gas, Recycling Village,W02861-01	
Within the Country	16 06 01	Yes	0.0	lead batteries	R4	M	Weighed	Offsite in Ireland	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
To Other Countries	16 06 01	Yes	0.0	lead batteries	R4	M	Weighed	Abroad	KMK Metals,W0113-04	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
To Other Countries	16 06 01	Yes	6.26	lead batteries	R4	M	Weighed	Abroad	KMK Metals,W0113-04	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
Within the Country	16 06 04	No	2.46	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-04	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
Within the Country	16 06 04	No	0.0	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	Recycling Village,W02861-01	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
Within the Country	16 06 04	No	0.0	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	Returnbat/Ritta,W0192-3	
Within the Country	17 08 02	No	0.0	gypsum-based construction materials other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Allied Recycling,WFP-KE-15-0080-11	Allied Recycling,WFP-KE-15-0080-11	Allied Recycling,WFP-KE-15-0080-11	Allied Recycling,WFP-KE-15-0080-11	
Within the Country	17 09 04	No	190.64	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	Fassaroe,Bray,Wicklow, Ireland	
Within the Country	17 09 04	No	1279.26	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Offsite in Ireland	Panda Waste / W0039-02	Panda Waste / W0039-02	Panda Waste / W0039-02	Panda Waste / W0039-02	
Within the Country	19 12 02	No	310.21	ferrous metal other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R4	M	Weighed	Offsite in Ireland	Panda Waste / Nurendale,W0140-04	Panda Waste / Nurendale,W0140-04	Panda Waste / Nurendale,W0140-04	Panda Waste / Nurendale,W0140-04	
Within the Country	19 12 12	No	4847.04	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich WFP-MH-08-0001-01	Enrich WFP-MH-08-0001-01	Enrich WFP-MH-08-0001-01	Enrich WFP-MH-08-0001-01	
To Other Countries	19 12 12	No	75932.77	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R1	M	Weighed	Abroad	Panda Waste / Drogheda Port Company WFP-LH-11-0006-01	Panda Waste / Drogheda Port Company WFP-LH-11-0006-01	Panda Waste / Drogheda Port Company WFP-LH-11-0006-01	Panda Waste / Drogheda Port Company WFP-LH-11-0006-01	

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste Name and Licence/Permit No of Next Destination Facility	Haz Waste Name and Licence/Permit No of Recover/Disposer	Haz Waste Address of Next Destination Facility	Haz Waste Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						Non	Non		Non	Non	Non	Non	Non	
						M/C/E	Method Used							
To Other Countries	19 12 12	No	7838.98	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R1	M	Weighed	Abroad	Panda Waste / O' Hanlon and Sons Contractors Ltd WFP-LH-12-0002-01		Loughingtons Yard, Quay Street, Dundalk, Co. Louth			
To Other Countries	19 12 12	No	0.0	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R1	M	Weighed	Abroad	Drogheda Port Company,WFP-LH-12-0004-01		Harbourville,Mornington Road,Drogheda,Co. Meath,Ireland			
To Other Countries	19 12 12	No	2379.74	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R1	M	Weighed	Abroad	Greenore Port Ltd,WFP-LH-114-0002-01		Greenore Port,Greenore,Co. Louth,Ireland			
To Other Countries	19 12 12	No	0.0	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R1	M	Weighed	Abroad	Martin Buttery and Co.,WFP-LH-14-0001-01		Rd,Drogheda,Co. Louth,Ireland			
Within the Country	20 01 01	No	15.8	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd /a Panda Waste Services,W263		Road,Ballymount .D12,Ireland			
Within the Country	20 01 11	No	6.1	textiles	R3	M	Weighed	Offsite in Ireland	Enable Ireland,WPR060		Unit D1C,Bluebell Ind Est,Kylemore Rd,D12,Ireland			
Within the Country	20 01 11	No	39.2	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,0		Greenogue Ind Est,Greenogue Business Park,D24, Ireland			
To Other Countries	20 01 21	Yes	16.32	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Abroad	KMK Metals,W0113-03		Tullamore,Offaly, Ireland		Remondis Electrocyling SAS,01-2452A,Zac des Marots,BP03,10800 Saint Thibault,France	Zac des Marots,BP03,10800 Saint Thibault,France
To Other Countries	20 01 23	Yes	0.0	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Abroad	Techrec Ltd,LN/08/122		Dungannon,Tyrone, Ireland		Remondis Electrocyling SAS,01-2452A,Zac des Marots,BP03,10800 Saint Thibault,France	Zac des Marots,BP03,10800 Saint Thibault,France
Within the Country	20 01 23	Yes	82.12	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Offsite in Ireland	KMK Metals W0113-05		Tullamore,Offaly, Ireland		KMK Metals W0113-05	Tullamore,Offaly, Ireland
Within the Country	20 01 25	No	0.86	edible oil and fat	R9	M	Weighed	Offsite in Ireland	Frylite,WFP-DS-10-009-01		Ballymount Ave,Ballymount Ind Est,D12, Ireland			
To Other Countries	20 01 27	Yes	24.24	paint, inks, adhesives and resins containing dangerous substances	R2	M	Weighed	Abroad	Ecosafe,W054-02		Unit 1,Allied Ind Est,Kylemore Rd,Dublin, Ireland		Accurec GMB and HJ Enthoven,BL5599,Wehagan 2-14 D45472 Mulunheim Germany,Matlock Debyshire UK,Germany	Wehagan 2-14 D45472 Mulunheim Germany,Matlock Debyshire UK,Germany
To Other Countries	20 01 35	Yes	337.34	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Abroad	KMK Metals,W0113-04		Tullamore,Offaly, Ireland		EMR - DARLASTON BENTLEY ROAD SOUTH DARLASTON WEST, MIDLANDS, WS10 6LW	7. United Kingdom
Within the Country	16 02 13	Yes	174.67	discarded electrical and electronic equipment (16) other than those mentioned in 16 02 09 to 16 02 12	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03		Tullamore,Offaly, Ireland		KMK Metals,W0113-03,Tullamore,Offaly, IrelandIreland
Within the Country	20 01 36	No	150.78	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-05		Tullamore,Offaly, Ireland			
Within the Country	20 01 38	No	157.34	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe,W0053-03		Fassaroe,Bray,Wicklow, Ireland			

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 01 38	No	23.46	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park, W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	20 01 40	No	403.6	metals	R4	M	Weighed	Offsite in Ireland	Multimetals Ltd, ESS/15/8/121319	Boltarne, The Morrrough, Co. Wicklow, Ireland		
Within the Country	20 01 40	No	102.18	metals	R4	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		
Within the Country	20 01 40	No	15.44	metals	R4	M	Weighed	Offsite in Ireland	Clearcircle Metals, WFP-LKC 11-001-01	Ballysimon Road, Limerick, Ireland		
Within the Country	20 02 01	No	196.78	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona, W0198-01	Kilberry, Athy, Co. Kildare, Ireland and Ballymount Cross, Tallaght, Dublin 12, Ireland		
Within the Country	20 03 01	No	1069.83	mixed municipal waste	D15	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		
Within the Country	20 03 07	No	27.06	bulky waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill, W0201	Allenwood, Kildare, Ireland		
Within the Country	20 03 07	No	208.68	bulky waste	R12	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	20 03 07	No	1148.72	bulky waste	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroe, W0053-03	Fassaroe, Bray, Wicklow, Ireland and 133A, Slaney Road Dublin Ind Est, d11, Ireland		
Within the Country	20 03 07	No	20.18	bulky waste	R12	M	Weighed	Offsite in Ireland	Ecomatress Recycling.	Ballymount Cross, Tallaght, Dublin 12, Ireland		
Within the Country	20 03 07	No	3776.86	bulky waste	R12	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		
Within the Country	15 01 01	No	3.9	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		
Within the Country	15 01 01	No	12.96	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar, Millenium Park W0183	Grange, Ballycoolin, Finglas, Dublin, Ireland		
Within the Country	15 01 01	No	48.46	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd /a Panda Waste Services, W263	Ballymount Road, Walkinstown, D12, Ireland		
Within the Country	15 01 01	No	222.23	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Dublin City Council MRF, W0238.01	Merrywell Ind Est, Ballymount Rd, Ballymount, D12, Ireland		
Within the Country	20 01 39	No	55.3	plastics	R3	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		
Within the Country	20 01 39	No	28.02	plastics	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe, W0053-03	Fassaroe, Bray, Wicklow, Ireland and Ballymount Road, Ballymount Road, Walkinstown, D12, Ireland		
Within the Country	20 01 39	No	1.92	plastics	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd /a Panda Waste Services, W263	Merrywell Ind Est, Ballymount Rd		
Within the Country	20 01 39	No	14.36	plastics	R3	M	Weighed	Offsite in Ireland	Dublin City Council MRF, W0238.01	Lwr, Ballymount, D12, Ireland		
Within the Country	20 02 01	No	253.78	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona Drehid, W0201	Allenwood, Kildare, Ireland		
Within the Country	20 02 01	No	1352.7	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Enrich, WFP-MH-08-0001-02	Newton, Rathgangle, Kilkock, Kildare, Ireland		
Within the Country	20 01 38	No	1677.41	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Panda Waste, W0039-02	12, Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste Name and Licence/Permit No of Next Destination Facility Non Haz Waste Name and Licence/Permit No of Recover/Depositor	Haz Waste Address of Next Destination Facility Non Haz Waste Address of Recover/Depositor	Name and License / Permit No. and Address of Final Recoverer / Depositor (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 08	Yes	1.88	other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Rilta Environmental,W0192-03	Block 402,Grants Drive,Greenogue Ind Est,Rathcoole Dublin,Ireland	HJ Enthoven, BL5598,Derbyshire,United Kingdom	Derbyshire,United Kingdom
Within the Country	17 08 02	No	31.32	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Allied Recycling,WFP-KE-15 0080-11	Estate,Naas,Co Kildare,Ireland		
Within the Country	17 08 02	No	21.28	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Panda Waste / Nurendale,W0261-02	rd,Cappagogue,Finglas D11,Ireland		
Within the Country	20 01 01	No	60.2	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Dublin City Council MRF,w0238-01	Lower,Ballymount Ind Est,Ballymount,D12,Ireland		
Within the Country	20 01 01	No	22.34	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroo,W0053-03	Fassaroo,Bray,Wicklow,Ireland	Recyfuel,DPAA3200/61080/RGPED/2008/2/AP-PU,Zoning Industriel D'Ehein,B-4480	
To Other Countries	20 01 27	Yes	116.86	paint, inks, adhesives and resins containing dangerous substances	R2	M	Weighed	Abroad	Enva Ireland Ltd,W0184-2	Clonminum Ind Est,Portlaoise,Laois,Ireland	ENGIS,Belgium	Belgium
Within the Country	20 03 07	No	52.59	bulky waste other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighed	Offsite in Ireland	Panda Waste ,W0039-02	Ballymount Cross,Tallaght,Dublin 12,Ireland		
Within the Country	19 12 12	No	2957.3	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	OD Agri Ltd OD Recycling,WFP-T-10-10002-05	Ballyboe,Ballypatrick,Clonmel,Tipperary,Ireland		
Within the Country	19 12 12	No	187.77	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Greenstar Status Eco,W0136-03	Sarsfield Court,Sarsfield Court Ind Est,Glanmire,Cork,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button