

**the city bin c<sup>o</sup>**



**Full Annual Environmental Report  
Period 1st January 2010 to 31st December 2010  
The City Bin Co., Carrowmoneash  
Oranmore, County Galway.**

Prepared to comply with  
Waste Licence Register No. 148-1.  
Condition 11.5.1, 11.5.2 and Schedule F

APPROVED BY:  
McCarthy Keville O'Sullivan Ltd

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## **1. Introduction**

### **1.1. Reporting Period**

This Annual Environmental Report (AER) is the seventh such document produced for The City Bin Co waste transfer station at Carrowmoneash, Oranmore, Co. Galway. Environmental monitoring and reporting are required under Schedules D and E of the facility's EPA Waste Licence (Licence Number 148-1). The reporting period for the AER is from 1st January 2010 until 31<sup>st</sup> December 2010. The AER is in follow up to the previous report, which was for the report period 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009.

### **1.2. Location of Facility**

The City Bin Co waste transfer station is located in the townland of Carrowmoneash, Oranmore, Co. Galway, approximately 140 metres east of the N18 (Galway – Limerick) National Primary Road, 420 metres north of the N6 (Galway – Dublin) Dual Carriageway and approximately 30 metres north of the Galway – Dublin railway line. Other facilities surrounding the waste transfer station include the New Galway Metal Company, Old Galway Metal Company yard, the old Steelforms site and the Galway Oil Depot Site. The Deerpark Industrial Estate and a number of commercial premises are located west of the waste transfer station, on the opposite the side of the N18.

## 2. Waste

### 2.1. Waste Management Activities

Waste management activities carried out at the facility are outlined in Tables 2.1 and 2.2.

**Table 2.1 Licensed Disposal Activities**

<b>Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003</b>	
<b>Class 11</b>	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.  <i>This activity is limited to bulking and transfer of waste.</i>
<b>Class 13</b>	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection on the premises where the waste concerned was produced.  <i>This activity is limited to the storage of waste prior to bulking and transfer of waste.</i>

**Table 2.2 Licensed Recovery Activities**

<b>Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003</b>	
<b>Class 2</b>	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):  <i>This activity is limited to recovery of paper, wood, plastic and organic waste.</i>
<b>Class 3</b>	Recycling or reclamation of metals and metal compounds.  <i>This activity is limited to recovery of glass and construction and demolition waste.</i>
<b>Class 4</b>	Recycling or reclamation of other inorganic materials.  <i>This activity is limited to recovery of glass and construction and demolition waste.</i>
<b>Class 13</b>	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.  <i>This activity is limited to the storage of waste prior to recovery.</i>

Incoming waste vehicles proceed to an onsite weighbridge where they are then weighed and assessed. Wastes are then tipped in the Waste and Recycling Transfer Building, where they are inspected for suitability, and reloaded if they are found to be unacceptable. Wastes are then sorted and loaded onto waste transfer vehicles prior to their removal from site.

## 2.2. Quantity and Composition of Wastes Received

Table 2.3 lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.

**Table 2.3 Waste Received at the Facility from 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010**

Waste Type	Annual limits	Quantity (tonnes)
Household waste	20,000	14,904
Commercial waste	20,000	12,420
Construction and Demolition waste	80,000	1,890
Industrial Non-hazardous wastes	10,000	1,004
<b>TOTAL</b>	<b>130,000</b>	<b>30,218</b>

## 2.3. Waste Sent Offsite for Recovery or Disposal

Tables 2.4 and 2.5 list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.

**Table 2.4 Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010**

Waste Type	Annual limits	Quantity (tonnes)
Household Waste	15,000	12,579
Commercial Waste	15,000	10,292
<b>Total</b>	<b>30,000</b>	<b>22,871</b>

**Table 2.5 Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010**

Waste Type	Annual limits	Quantity (tonnes)
Household Waste	5,000	2,492
Commercial Waste	5,000	2,210
Construction and Demolition waste	80,000	1,961
Industrial Non-hazardous wastes	10,000	1,059
<b>Total</b>	<b>100,000</b>	<b>7,722</b>

Total waste sent offsite during 2010 therefore amounts to 30,593 tonnes, which is 375 tonnes more than the value for incoming waste. The difference arose from difficulties in transporting waste during the periods of adverse weather conditions, at the beginning and end of 2010. Some of the waste was removed during January 2010 as storage waste from 2009.

#### 2.4. Waste Previous year Received

Table 2.6 lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009.

**Table 2.6 Waste Received at the Facility from 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009**

Waste Type	EWC Code	Quantity (tonnes)
Mixed Packaging	150106	3,059.12
Mixed of concrete, bricks, Tiles and Ceramics	170107	490.61
Mixed Construction and Demolition Waste	170904	2,147.95
Organic Compost Kitchen Waste	200108	1,116.70
Other Fractions Not Otherwise Specified	200199	0.00
Mixed Municipal Waste	200301	26,278.17
<b>Total</b>		<b>33,092.55</b>

#### 2.5. Waste Sent Offsite for Recovery or Disposal for Previous Year

Tables 2.7 and 2.8 list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009.

**Table 2.7 Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009**

Waste Type	EWC Code	Quantity (tonnes)
Mixed Municipal Waste	200301	25,141.34
<b>Total</b>		<b>25,141.34</b>

**Table 2.8 Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2009 to 31<sup>st</sup> December 2009**

Waste Type	EWC Code	Quantity (tonnes)
Mixed Packaging	150106	3,007.78
Mixed of concrete, bricks, Tiles and Ceramics	170107	497.95
Mixed Construction and Demolition Waste	170904	3,351.66
Organic Compost Kitchen Waste	200108	903.26
Other Fractions Not Otherwise Specified	200199	0
<b>Total</b>		<b>7,760.65</b>

### 3. Summary Report on Emissions

#### 3.1. Monitoring Schedule

Table 3.1 presents the monitoring and reporting requirements in compliance with Waste License 148-1 Schedule D: Monitoring.

**Table 3.1 Monitoring Requirements, Schedule D of Waste Licence 148-1**

Media	Parameter	Monitoring Frequency	Reporting Frequency
Integrity Test*	Levels	Once every three years	Annually
Surface Water	Quality	Quarterly	Quarterly
Groundwater**	Quantity/ Quality	Annually	Quarterly
Noise***	Levels	Once every two year	Annually
Dust	Quantity	Three times per year	Three times per year
Air	Total Particulates	Annually	Annually

\*Integrity Test according with Condition 3.12.4 all inlets, outlets, vent pipes, valves and gauges must be within the bunded area. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion. Next integrity test will be in October 2012.

\*\*Further to a letter sent by the EPA on 23<sup>rd</sup> June 2005 (EPA Ref:148-1/GEN07), monitoring of groundwater at each of the six boreholes was reduced from quarterly to bi-annually.

Further to correspondence from 20<sup>th</sup> December 2010 (W0148-01 (11) AP24JG.docx) the monitoring frequency has been changed from bi –annually to annual monitoring.

\*\*\* Further to letter sent by EPA on 29<sup>th</sup> November (W0148-01 (10) AP22JG.docx), the frequency of noise monitoring has been changed to once every two year. Next noise monitoring will be done in 2012.

McCarthy Keville O’Sullivan Environmental Consultants are employed by The City Bin Co for overall management of the licence monitoring program. McCarthy Keville O’Sullivan conduct all monitoring and are responsible for submitting the quarterly environmental report on The City Bin Co behalf.

### 3.2. Dust Monitoring

A summary of the Dust deposition rates for The City Bin Co Transfer Station during reporting period are presented in table 3.2

**Table 3.2 Dust Deposition Rates**

Sampling Point	Dust Deposition Rate (mg/m <sup>2</sup> /day)		
	Q2 2010	Q3 2010	Q4 2010
D2	338*	558*	N/A**
D3	83.3	521*	73
D4	186	116	106

\* Exceedance due to bird's droppings contaminating sample.

\*\* D2 will be re-sampled in Q1 2011, as dust jar was broken.

#### 3.2.1 Summary of Results

Currently in Ireland there are no statutory limits for total dust deposition. The EPA however, recommends a maximum level of 350 mg/m<sup>2</sup>/day of dust deposition when measured according to TA Luft standard, which includes both soluble and insoluble matter (i.e. EPA compliance monitoring is based on the TA Luft Method). This limit value is stated in the Waste Licence for the facility, No. 148-1. The values presented in Table 3.2 show that total depositional dust levels measured at monitoring locations D2 (except fourth quarter), D3 and D4 during the last year 2010. These results were significantly below the 350 mg/m<sup>2</sup>/day limit value. Average depositional dust in D2 was found to be exceedance level in the second and third quarter and D3 in third quarter due to contamination by birds droppings.



### 3.3. Air Monitoring

A result of the Air monitoring for The City Bin Co Transfer Station during reporting period is present in table 3.3.

**Table 3.3 Average ambient PM 10 concentration in Q3 2010**

Date	Ambient PM10 conc. ( $\mu\text{g}/\text{m}^3$ )
Monitoring Location D1	21
Limit Value at 98.07 <sup>th</sup> percentile	50 <sup>1,2</sup>
Limit value-annual mean	20 <sup>3</sup>

<sup>1</sup> Irish and EU ambient air standard (SI 271 of 2002 and 1999/30/EC) as a 24-hour average

<sup>2</sup> Maximum number of exceedence seven times in a one-year period

<sup>3</sup> Annual limit value for Stage 2 implementation

#### 3.3.1. Summary of Results

Major sources of particulates include industrial/residential combustion and processing, energy generation, vehicular emissions and construction projects. PM10 monitoring in Ireland is limited to continuous monitoring stations operated by the Local Authorities and the Irish EPA, mainly in large urban centres. Average 24-hour ambient air concentrations monitored in the Phoenix Park and Whitehall respectively are in the range of 16  $\mu\text{g}$  per cubic metre and 17  $\mu\text{g}$  per cubic metre for an annual mean in 1999. The EPA measured an annual mean of 15  $\mu\text{g}$  per cubic metre at a monitoring station located within the Phoenix Park. The dominant source of PM10 in that area appeared to be vehicle emissions, boilers (home heating and industrial heating), industrial processes and construction activities. The average ambient PM10 value recorded at the City Bin Co. Ltd. facility was 21  $\mu\text{g}$  per cubic metre, which was on average 57% lower than the Irish and EU ambient air quality limit value.

### 3.4. Noise Monitoring

Noise monitoring was carried out twice during the reporting period. All noise monitoring locations were chosen to comply with the ISO 1996: *Acoustics – Description and Measurement of Environmental Noise Guidelines*. Monitoring locations N1, N2, N3 and N4 are located along the boundary walls of the site. Monitoring locations NSL5, NSL6 and NSL7 represent three other locations that can be considered as noise sensitive receptors.

**Table 3.4 Noise Monitoring Results from 1st January 2010 to 31st December 2010**

Monitoring Location		N1	N2	N3	N4	NSL5	NSL6	NSL7
Quarter 1 2010- 26 <sup>th</sup> March Night time								
Noise Level	LAeq-15min dB(A)	60.2	47.7	45.5	47.5	52.5	51.1	50.7
	LA90-15min dB(A)	44.4	41.2	37.5	40.1	46.9	46.0	48.7
	LA10-15min dB(A)	63.8	50.4	49.2	46.4	55.5	52.6	51.8
Wind speed	Average	0.4	0.0	0.0	0.0	0.7	0.0	0.5
	Maximum	0.3	0.0	0.0	0.0	1.2	0.0	0.9
Quarter 1 2010- 26 <sup>th</sup> March Daytime								
Noise Level	LAeq-15min dB(A)	54.3	52.8	51.1	50.2	55.0	60.9	46.6
	LA90-15min dB(A)	48.7	48.7	46.6	45.1	45.9	43.4	42.4
	LA10-15min dB(A)	57.1	55.4	53.5	53.5	52.4	66.1	46.6
Wind speed	Average	0.0	0.3	0.0	0.1	0.7	0.0	0.0
	Maximum	0.0	3.2	0.0	0.3	1.2	0.0	0.0
Quarter 4 2010- 1 <sup>st</sup> October Night time								
Noise Level	LAeq-15min dB(A)	50.9	45.7	48.6	59.5	54.7	54.2	52.1
	LA90-15min dB(A)	38.2	47.8	51.4	45.8	50.4	51.2	49.0
	LA10-15min dB(A)	49.4	42.2	59.8	61.6	57.4	56.2	54.0
Wind speed	Average	2.0	2.8	4.3	2.0	4.6	4.2	3.9
	Maximum	2.8	3.2	6.2	2.2	5.0	4.6	7.1
Quarter 4 2010-1 <sup>st</sup> October Daytime								
Noise Level	LAeq-15min dB(A)	51.6	52.9	55.1	58.4	57.2	54.9	53.6
	LA90-15min dB(A)	48.8	49.0	52.4	54.2	54.4	52.8	50.0
	LA10-15min dB(A)	52.6	53.2	56.4	60.0	59.2	56.4	54.4
Wind speed	Average	2.0	2.8	2.0	1.8	3.0	2.8	3.8
	Maximum	2.7	5.8	3.0	2.2	3.6	3.2	4.6

#### 3.4.1. Summary of Results

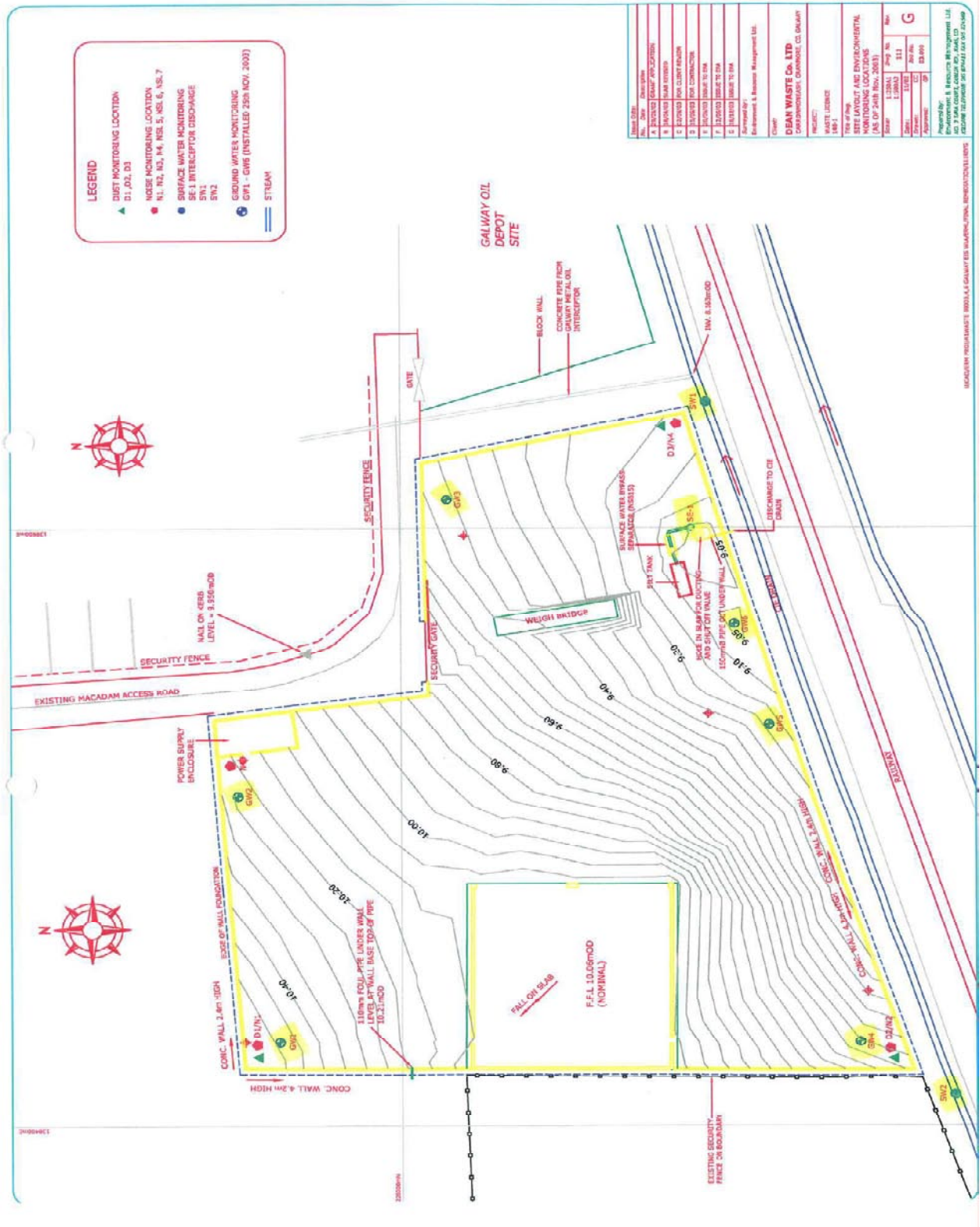
Table 3.4 show noise monitoring results from first and fourth quarterly monitoring which took place on the 26<sup>th</sup> March 2010 and 1<sup>st</sup> October 2010 during the daytime and night time monitoring respectively.

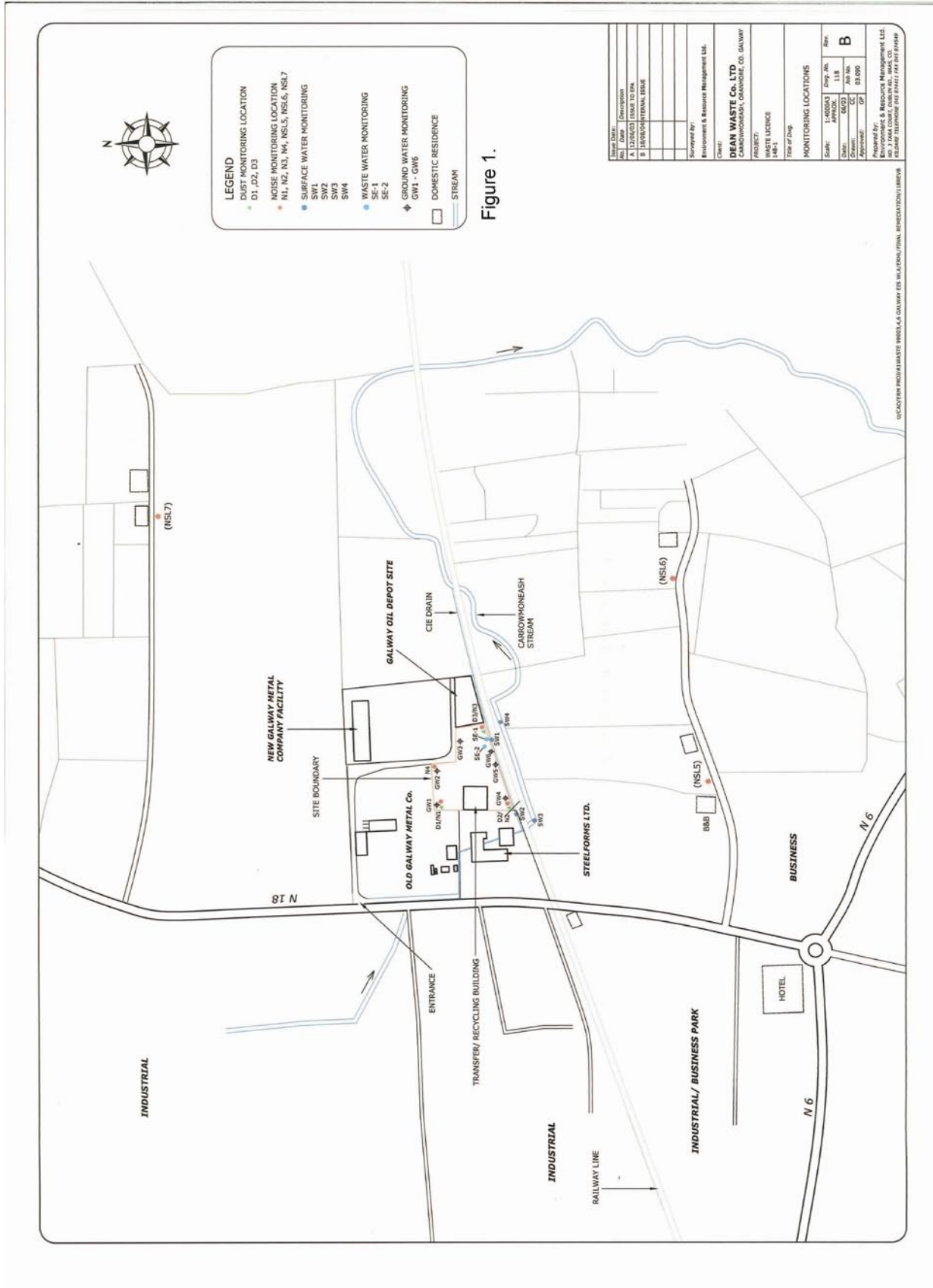
The night-time noise emission limit of LAeq 45dB was exceeded at the noise sensitive locations during the night-time monitoring periods in March and October. The daytime noise license threshold limit of LAeq 55dB was exceeded at location N6 during the March assessment and at N4 and N5 during the October assessment. Such exceedances are not attributable to activities ongoing within the transfer station. High volumes of traffic on the N6 and N18 National Primary Routes were noted to be the main contributor to ambient noise during all monitoring periods. The operation of other industrial facilities in

the area and passing trains on the Galway – Dublin railway line also contribute to ambient noise in the area.

It can therefore be concluded that the contribution of waste transfer activities at The City Bin Co. Ltd. to environmental noise levels in the area is not of particular significance. In compliance with condition 6.6 of EPA license, activities on-site do not give rise to noise levels off-site, at noise sensitive locations, which exceed the sound pressure limits outlined in Table C1. No complaints in relation to noise levels from the waste transfer station were reported during 2010.







### 3.5. Surface Water Monitoring

Four surface water-sampling events were undertaken at three monitoring locations SW-1, SW-2 and SE-1 during the monitoring period. The ranges of values recorded for each parameter over the reporting period are shown in Table 3.5

**Table 3.5 Surface Water Monitoring Results: Low - High Range 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.**

Parameter	Units	Monitoring Location			Waste Licence Trigger Limits for SE1
		SW1	SW2*	SE1	
BOD	mg/l	1.79-20.7	1.05-1.48	<1-22	25
Total Suspended Solids	mg/l	4.74-66	<2-2	<6-40	60
Oils Fats and Greases	mg/l	<1-6.16	<1	<1-1.49	-
pH	-	7.47-8.54	7.58-8.65	7.47-8.51	-
Total Ammonia	mg/l	0.319-1.15	<0.2-0.38	0.202-2.13	-
TPH	mg/l	1.71-6.16	<1	3.31-4.9	
Mineral Oil by GC	mg/l	0.2-0.511	<0.01	0.1-0.925	5

\*Drain dry during monitoring in 2<sup>nd</sup> quarter.

#### 3.5.1. Summary of Results

The results of water monitoring at the facility indicated that results generally range within typical surface water quality concentrations for industrial areas. Trigger limits for water quality results at SE1 were never exceeded during monitoring throughout 2010. No incident reports were therefore required to be submitted. Suspended solid at SW1 was found to have elevated in the first quarter. These elevated results may have been results of heavy rain and high level of surface water. The level of suspended solid returned to normal level when sampled during second, third and fourth quarter.



### 3.6. Groundwater Monitoring

Groundwater samples are taken on a bi-annual basis at six monitoring locations, GW-1, GW-2, GW-3, GW4, GW5 and GW6, during the monitoring period. Groundwater sampling was carried out during the second and fourth quarters of 2010 at the waste transfer station. The ranges of results recorded during sampling are presented in Table 3.6.

**Table 3.6 Groundwater Monitoring Results: Low - High Range 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.**

Parameter	Units	GW1	GW2	GW3	GW4	GW5	GW6
Diesel Range Organics	ug/l	429-454	167-410	4740-23400	158-166	345-745	2460-946000
Mineral Oil by GC	ug/l	<10-416	<10-163	2100-3300	<10	160-233	2050-29000
Petrol Range Organics C <sub>5</sub> -C <sub>12</sub>	ug/l	<42-<50	247-1680	<42-62	<42-<50	<50	<50
Benzene	ug/l	<7	<7	<7	<7	<7	<7
Toluene	ug/l	<4	<4	<4	<4	<4	<4
Ethylbenzene	ug/l	<5	<5	<5	<5	<5	<5
Total Xylene	ug/l	<3	<3	<3	<3	<3	<3
Conductivity (at 25 deg. °C)	mS/cm	0.442-0.506	0.472-0.812	0.481-0.499	0.373-0.445	0.564-0.932	0.166-0.783

#### 3.6.1. Summary of Results

Results show elevations in the second quarter in DRO (Diesel Range Organics), Mineral oil by GC in GW2, GW3, GW5 and in particular GW6. There was also a high level of Petrol Range Organic (PRO) in GW2. The fourth quarter represents in elevations in DRO (Diesel Range Organics), Mineral oil by GC in GW1, GW3 and GW6. These results show similar trends to those submitted in previous reports. Further to an EPA request, a report detailing this trend of elevations in PRO, DRO and Mineral oil in groundwater quality was sent to the EPA in September 2008. Conclusions showed that elevations above IGV values for groundwater have occurred in groundwater monitoring locations at the waste facility since Q3 2006 in particular at GW2, GW3 and GW6. Further to continuous monitoring conducted by McCarthy Keville O’Sullivan Ltd, these elevations were not as a result of activities taking place within the transfer station grounds but from activities which occur external to the site.

### 3.7. Foul Water Transported Offsite

Foul water, which was the result of cleans up of drainage sump and oil and grit interceptor, was collected and disposed of safely by Wers Waste Ltd twice last year. The Wers Waste emptied and cleaned by the first time in 10<sup>th</sup> of September 5000 gallon of liquid (EWC 13 05 07) and second time preparing the Tank for Water Tightness test in 6<sup>th</sup> of October 2010 were collected 3000 gallon of liquid (EWC 13 05 07).

## 4. Resource and Energy Consumption

Table 4.1 present the resource and energy consumption at the facility during the reporting period 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.

**Table 4.1. Energy and Resource Consumption.**

Resource/ Energy Use	Quantity	Unit
Water	-	Liter
Electricity	62,562	Unit
Diesel	12,130	Liter

## 5. Report on Development Work

### 5.1. Works for the Preceding year

During the reporting period 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010 the licensee has completed the development works as listed in Table 5.1

**Table 5.1 Development Works between 1<sup>st</sup> January 2010 and 31<sup>st</sup> December 2010**

Item	Works	Licence Condition
1.	Implement recycling campaign for domestic customers	partial
2.	Reduce energy usage	partial
3.	Implement automatic weighbridge system.	partial

### 5.2. Works for the Coming Year

The following is the proposed works for the reporting period 1<sup>st</sup> January 2011 to 31<sup>st</sup> December 2011 the licensee has currently planned as listed in Table 5.2.

**Table 5.2 Proposed Development Works between 1<sup>st</sup> January 2011 and 31<sup>st</sup> December 2011.**

Item	Works	Licence Condition
1	Reduce energy usage	N/A
2	Cover the public area (subject to planning permission)	N/A

## 6. Schedule of Environmental Targets and Objectives

### 6.1. Objectives and Targets for the Preceding Year

Table 6.1 below is the environmental objectives and targets set for 2010.



**Table 6.1 Objectives & Targets for 2010**

Objective	Target	Responsibility	Completion
Increase landfill diversion.	Divert 7% of suitable landfill waste received at the facility to recovery or recycling facilities.	Facility Manager	Dec 2010
Increase recycling	Improve the awareness of recycling at the transfer station – more marketing on waste separation at the public section of the site	Facility Manager	Dec 2010
Energy Usage	Reduce the amount of energy used by the transfer station by 5% ie electricity & diesel consumption	Facility Manager	Partial
Site office Automation System	To move to a more paperless system.	Facility Manager	Partial
To facilitate all weather access to our public recycling area	Enclose under cover public amenity area in Transfer Station	Facility Manager	partial
Increase range of recycling facilities for the General Public	Install a WEEE reception area / cages	Facility Manager	partial

## 6.2. Objectives and Targets for the Forthcoming Year

The objectives and targets listed in Table 6.2 have been set for 2011.

**Table 6.2 Objectives & Targets for 2011**

Objective	Target	Responsibility	Completion
Increase landfill diversion.	Divert 5% of suitable landfill waste received at the facility to recovery or recycling facilities.	Facility Manager	Dec 2011
Increase recycling	Improve the awareness of recycling at the transfer station – more marketing on waste separation at the public section of the site	Facility Manager	Dec 2011
Energy Usage	Reduce the amount of energy used by the transfer station by 5% ie electricity & diesel consumption	Facility Manager	Dec 2011
Site office Automation System	To move to a more paperless system.	Facility Manager	Dec 2011
To facilitate all weather access to our public recycling area	Enclose under cover public amenity area in Transfer Station	Facility Manager	Dec 2011
Increase range of recycling facilities for the General Public	Install a WEEE reception area / cages	Facility Manager	Dec 2011

## 7. Description of Procedures Developed

Table 7.1 present procedures which were developed in the reporting period.

**Table 7.1 Procedures Developed in the Reporting Period**

Procedure	Description
EP7012	Waste Acceptance & Handling Procedures
EP7018	Emergency Response Procedure for Transfer Station
EP7019	Decommissioning and Aftercare Plan

## 8. Tanks, Pipeline, Drum and Bund Inspection

### 8.1. Tanks

Water tanks onsite were inspected by McCarthy Keville O'Sullivan engineer Briana Keville B.Sc. (Env) on 15<sup>th</sup> of October 2010. The visual inspection of the tank did not find any evidence of damage or wear in the tank that is likely to effect tank integrity. The partial hydrostatic test undertaken to test the water tightness of the tank did not result in any drop in water level over the test period. The tank is deemed to be watertight and the integrity of the tank intact. The overflow system is working properly.

### 8.2. Pipework

There are two pipework systems at the facility; one collecting rainwater from the roof and carrying the water to the water tanks on site and one connecting the silt interceptor to the hydrocarbon interceptor which leads to the SE1 sump and then to the outer surface water drain. The rainwater pipeline is inspected on a weekly basis and was visually inspected before this AER was completed. It was found to be fully intact and working efficiently. The silt interceptor/hydrocarbon interceptor pipeline is located underground under a concrete slab. The pipe was inspected before the AER was completed and is transmitting water as intended. The flow of water in the SE-1 sump, which is pumped into the external surface water drain, was inspected and found to be flowing freely.

### 8.3. Bunds and Drums

There are no bunds or drums present at the facility as no fuels or hazardous material are stored onsite. No testing or inspections of bunds and drums was therefore required.

## 9. Report Incident and Complaint Summaries

Condition 11.2 of Waste Licence Register No. 148-1 requires a notification of the Agency in case an incident has, or may have, taken place at the facility. Incidents are described in Condition 1.7 of the License. There were no incidents or complaints received at the transfer station during last year.

## **10. Review of Nuisance Controls**

The Licensee undertakes a weekly inspection of the facility and its immediate surroundings for nuisance caused by vermin, birds, flies, mud, dust and odours. The Facility Manager carries out these inspections. A written report of each inspection is filed and kept at the facility office.

### **10.1. Nuisance Caused by Vermin**

Vermin control is carried out on the site by L.G Vaghaun & Sons (Rathfarnham, Dublin 16). This monitoring included regular site assessments and the maintenance (examining and replenishing) of bait boxes placed and fixed locations around the site. A minimum of eight site visits is undertaken annually.

### **10.2. Nuisance Caused by Birds**

Two model MP3 Ultra Sonic Pest Scarers were installed in the warehouse building above the floor area to “cover” the entire floor space. The Ultra Sonic Pest Scarers deter pests, in particular birds, from the warehouse. Birds have not been reported as being a nuisance at the transfer station.

### **10.3. Nuisance Caused by Mud and Dust**

Monitoring for dust emissions on the site is carried out three times per year, as detailed in Section 3.2 of this report. Dust emission monitoring at the facility indicates that dust emissions levels are below the emissions limits set out in the Schedule C of Waste License 148-1 and are therefore not considered a nuisance.

### **10.4. Nuisance Caused by Odours**

Due to the nature of waste accepted at the facility, the low residence time of the waste and operational practices employed at the facility, the potential for odour to become a nuisance in local environment is considered to be minimal. This is supported by the zero incidents of complaints relating to odour generated from the facility.

## **11. Financial Provision**

The Waste Licence holder annually provides the Environmental Protection Agency with a minimum of €11,958.72 for services they provide in relation to overseeing the Waste License. Fees have been paid to EPA since the commencement of waste acceptance activities at the facility.

Cost estimates have been made regarding the potential environmental liability of operation and decommissioning. To cover any environmental pollution events and pursuant to Condition 12.2.2 of Waste License 148-1, the Licensee has taken out an Environmental Site Liability Insurance Policy with Chubb Insurance Company of Europe.

To cover the costs of closure and decommissioning, which has been estimated at €70,000, the Licensee proposes to use operating capital and/or overdraft facilities available to the Licensee.

## 12. Management and Staffing Structure

The Facility Manager at the site is Donagh Killilea. There are also two Deputy's Facility Managers James Browne and Katarzyna (Kate) Rybczynska, Carol Uzdilo is the assistant facility manager.

## 13. Decommissioning Plan

According with Environmental Agency request from the Audit report in 29<sup>th</sup> September 2010 Ref: (148-1)10SII2JG the Decommissioning Plan has been written and submitted to the Agency. The Decommissioning Plan will be reviewed annual accordance with licence.

The summary results for the Decommissioning Plan present the table 13.1.

**Table 13.1 Summary Decommissioning Plan Table.**

Item	Frequency	Cost
Abatement Installation, Control and Monitoring		
Abatement	N/A	-
Control	Annual	€2,200
Monitoring	Annual (Cost)	€14,900
Closure and Remediation of the site		
Closure and Decommissioning of facility	Once-off (on closure)	€70,000
Clean-up following a plausible accident/incident		
Clean-up after pollution incident	Infrequent	€5,622
Long-term aftercare for residual environmental liabilities		
N/a	N/a	-

## 14. Programme for Public Information

A facility notice board has been erected which indicates contact details for the licensee and where the public may get environmental information. The management of the company would be pleased to meet with or contact members of the public to address any legitimate issues that are raised in writing.

[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.11

<b>REFERENCE YEAR</b>	2010
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## 1. FACILITY IDENTIFICATION

Parent Company Name	City Bin Company Limited
Facility Name	City Bin Co Ltd
PRTR Identification Number	W0148
Licence Number	W0148-01

### Waste or IPPC Classes of Activity

No.	class_name
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Townlands of Carrowmoneash
Address 2	Oranmore
Address 3	County Galway
Address 4	
Country	Ireland
Coordinates of Location	-8.92349 53.2808
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Niall Killilea
<b>AER Returns Contact Email Address</b>	info@citybin.com
<b>AER Returns Contact Position</b>	Managing Director
<b>AER Returns Contact Telephone Number</b>	091787800
<b>AER Returns Contact Mobile Phone Number</b>	
<b>AER Returns Contact Fax Number</b>	091787879
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	23000
<b>Number of Employees</b>	60
<b>User Feedback/Comments</b>	
<b>Web Address</b>	www.citybin.com

## 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?	No
If applicable which activity class applies (as per Schedule 2 of the regulations)?	N/A
Is the reduction scheme compliance route being used?	N/A

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0148 | Facility Name : City Bin Co Ltd | Filename : w0148\_2010(1).xls | Return Year : 2010 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

POLLUTANT		METHOD			QUANTITY			
No. Annex I	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 B : REMAINING PRTR POLLUTANTS**

POLLUTANT		METHOD			QUANTITY			
No. Annex I	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)**

POLLUTANT		METHOD			QUANTITY			
Pollutant No.	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

**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:	City Bin Co Ltd			
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used	Facility Total Capacity m3 per hour
	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/	0.0		0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0		N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR#: W0148 | Facility Name : City Bin Co Ltd | Filename : w0148\_2010(1).xls | Return Year : 2010 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

POLLUTANT		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	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**

POLLUTANT		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	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)**

POLLUTANT		RELEASES TO WATERS			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0148 | Facility Name : City Bin Co Ltd | Filename : w0148\_2010(1).xls | Return Year : 20

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**SECTION A : PRTR POLLUTANTS**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

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

**SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

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



4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0148 | Facility Name : City Bin Co Ltd | Filename : w0148\_2010(1).xls | Return Year : 2010 |

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**SECTION A : PRTR POLLUTANTS**

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) 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 B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)**

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) 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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0148 | Facility Name: City Bin Co Ltd | Filename: w0148\_2010(1).xls | Return Year: 2010 |

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Please enter all quantities on this sheet in Tonnes

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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 Recoverer/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recoverer/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	15 01 06	No	3247.78	mixed packaging mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Wers Waste Ltd,WR 84	Tuam Business Park ,Weir Road,Co Galway ,0,Ireland		
Within the Country	17 09 04	No	1213.82	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Neiphin Trading Limited,42-1	Kerdiffstown,Naas,Co Kildare,0,Ireland		
Within the Country	17 09 04	No	446.46	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Wers Waste Ltd,WR 84 Nurendale Limited Trading as Panda Waste Service Limited,W0140-03	Tuam Business Park ,Weir Road,Co Galway ,0,Ireland		
Within the Country	17 09 04	No	202.52	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Midland Waste Disposal Company Limited,W0131-02	Clonmagaddan,Proudstown Navan,Co Meath,0,Ireland		
Within the Country	17 09 04	No	920.02	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Clonmel Waste Disposal Ltd,WP 008-02	Lawlesstown ,Clonmel,Co Tipperary,0,Ireland Crag Avenue,Clondalkin Industrial Estate Clondalkin,Co Dublin,0,Ireland		
Within the Country	17 09 04	No	69.88	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R5	M	Weighed	Onsite in Ireland	Greyhound Recycling and Recovery Limited,W 0205-01 Galway City Council (formerly Galway Corporation),Waste Licence 13-1	Headford Road,Galway ,0,Ireland		
Within the Country	20 01 08	No	67.3	biodegradable kitchen and canteen waste	R3	M	Weighed	Onsite in Ireland	Premier Proteins (2000) Ltd.,P0045-05 Galway City Council (formerly Galway Corporation),Waste Licence 13-1	Poolboy,Ballinasloe,Co Galway,0,Ireland		
Within the Country	20 01 08	No	1175.48	biodegradable kitchen and canteen waste	R3	M	Weighed	Onsite in Ireland	Galway City Council (formerly Galway Corporation),Waste Licence 13-1	Carrowbrowne Landfill Site, Carrowbrowne Headford Road, Galway ,0,Ireland		
Within the Country	20 01 08	No	214.4	biodegradable kitchen and canteen waste	R3	M	Weighed	Onsite in Ireland	Bord na Mona Plc,W 0201-02	Drehid Waste Management Facility,Parsonstown Loughnacush Kilkeaskin Drummond Timahoe West,Coolcarrigan Killinagh Lower,0,Ireland		
Within the Country	20 03 01	No	22870.4	mixed municipal waste	D1	M	Weighed	Onsite in Ireland				

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)