



# Annual Environmental Report

## March 2015

**the city bin co**



Annual Environmental Report  
Period 1st January 2014 to 31st December 2014  
The City Bin Co., Carrowmoneash  
Oranmore, Co Galway.

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

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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 2014 until 31<sup>st</sup> December 2014. The AER is in follow up to the previous report, which was for the report period 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013.

### 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. Previous Waste Management Activities

Waste management activities carried out at the facility before the Agency requested review the new First Schedule of the EPA Acts 1992 to 2013 are outlined in Tables 2.1.1 and 2.1.2.

**Table 2.1.1. Licensed Disposal Activities**

Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003	
<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 2.1.2. Licensed Recovery Activities**

Licensed Waste Disposal Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996-2003	
<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 water 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.

### Quantity and Composition of Wastes Received

Table 2.2.1. lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014.

**Table 2.2.1. Waste Received at the Facility from 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014**

Waste Type	Annual limits	Quantity (tonnes)
Household waste	20,000	6,368.29
Commercial waste	20,000	10,547.97
Construction and Demolition waste	80,000	1,572.17
Industrial Non-hazardous wastes	10,000	0
<b>TOTAL</b>	<b>130,000</b>	<b>18,488.43</b>

### 2.2. Waste Sent Offsite for Recovery or Disposal

Tables 2.3.1 and 2.3.2. list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014.

**Table 2.3.1. Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014**

Waste Type	Quantity (tonnes)
Household Waste	4,624.25
Commercial Waste	8,587.89
<b>Total</b>	<b>13,212.14</b>

**Table 2.3.2. Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014**

Waste Type	Quantity (tonnes)
Household Waste	1,892.63
Commercial Waste	1,807.91
Construction and Demolition waste	1,161.36
Industrial Non-hazardous wastes	-
<b>Total</b>	<b>4,861.9</b>

Total waste sent offsite during 2014 therefore amounts to 18,074 tonnes, which is 413 tonnes less than the value for incoming waste. The difference arose from difficulties in transporting waste during the Christmas time. All the outstanding waste was removed during January 2015.

### 2.3. Waste Previous year Received

Table 2.4.1. Lists the incoming wastes that were received at the facility during the period 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013.

**Table 2.4.1. Waste Received at the Facility from 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013**

Waste Type	Annual limits	Quantity (tonnes)
Household waste	20,000	9,591
Commercial waste	20,000	11,374
Construction and Demolition waste	80,000	729
Industrial Non-hazardous wastes	10,000	0
<b>TOTAL</b>	<b>130,000</b>	<b>21,693</b>

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

Tables 2.5.1 and 2.5.2. list the quantities of outgoing waste from the waste transfer station during the reporting period 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013.

**Table 2.5.1. Waste Sent Offsite for Disposal from 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013**

Waste Type	Quantity (tonnes)
Household Waste	7,505
Commercial Waste	9,302
<b>Total</b>	<b>16,807</b>

**Table 2.5.2. Waste Sent Offsite for Recovery from 1<sup>st</sup> January 2013 to 31<sup>st</sup> December 2013**

Waste Type	Quantity (tonnes)
Household Waste	2,051
Commercial Waste	1,888
Construction and Demolition waste	485
Industrial Non-hazardous wastes	-
<b>Total</b>	<b>4,424</b>

Total waste sent offsite during 2013 therefore amounts to 21,231 tonnes, which is 462 tonnes less than the value for incoming waste. The difference arose from difficulties in transporting waste during the Christmas time. All the outstanding waste was removed during January 2014. We reduced material volumes versus the previous year due to less third party material.



### 3. Summary Report on Emissions

#### 3.1. Monitoring Schedule

Table 3.1.1 presents the monitoring and reporting requirements in compliance with Waste License 148-1 Schedule D: Monitoring.

**Table 3.1.1. 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	Bi-annual	Quarterly
Noise***	Levels	Once every two years	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 August 2017.

\*\*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 2010 (W0148-01 (10) AP22JG.docx), the frequency of noise monitoring has been changed to once every two years. Next noise monitoring will be done in 2014.

\*\*\*\*\* Further to letter received from EPA on 08<sup>th</sup> March 2013 from Agency, the ground water monitoring frequency has been changed from once a year to quarterly for another 12 month and number of parameters has been increased. Also surface water number of parameters has been increased as well for 12 month starting from Q2 2013 till Q1 2014.

\*\*\*\*\* Further to letter sent by EPA on 17<sup>th</sup> of April 2014 (ALDER LR008939), the frequency in relation to surface and groundwater. Only the groundwater frequency has been changed from quarterly to bi-annual.

\*\*\*\*\* Further to letter sent by EPA on 03<sup>rd</sup> of June 2014 (ALDER LR009607 and ALDER LR009606), the numbers of parameters for groundwater monitoring and Surface monitoring test to the list before Q1 2013.

McCarthy Keville O’Sullivan Environmental Consultants are employed by The City Bin Co for overall management of the license 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 3.2.1.

**Table 3.2.1. Dust Deposition Rates**

Sampling Point	Dust Deposition Rate (mg/m <sup>2</sup> /day)		
	Q1 2014	Q2 2014	Q4 2014
D1	119	222	140
D2	100	104	232
D3	109	62	174

#### 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. Dust samples were collected at the site over a period of more than 30 days, which is the standard sampling time.

The values presented in Table 3.1 show that total depositional dust levels measured at D1, D2 and D3 monitoring locations during last year 2014 were below the 350 mg/m<sup>2</sup>/day limit value which indicates that nuisance levels of dust do not occurring at the waste transfer station site.

The full dust monitoring reports were submitted to ALDER system.

### 3.3. Air Monitoring

A result of the Air monitoring for The City Bin Co Transfer Station during reporting period is present in table 3.3.1.

**Table 3.3.1. Average ambient PM 10 concentration in Q3 2014**

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

#### 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 Company Ltd. facility was 21  $\mu\text{g}$  per cubic metre which is well below the statutory 24-hour average ambient air concentration level of 50  $\mu\text{g}$  m<sup>-3</sup> EU limit.

The Air monitoring report was submitted to ALDER system.

### 3.4. 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 3.4.1.

**Table 3.4.1 Surface Water Monitoring Results: 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014.**

Parameter Q1	Units	Monitoring Location Q1			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	<1	<1	7.74	25
Total Suspended Solids	mg/l	2	2	18.5	60
Oils Fats and Greases	mg/l	9.43	<1	2.23	-
pH	-	7.93	8.03	7.88	-
Total Ammonia (N)	mg/l	8.28	8.09	0.205	-
TPH	mg/l	9.43	<1	2.23	-
Total PolyChlorinated BiPhenyls	mg/l	0.0001	0.0001	0.0001	
Mineral Oil	mg/l	4.8	<0.001	0.49	5
DRO	mg/l	3.34	0.06	0.83	-
PRO	mg/l	<0.05	<0.05	0.18	-
Benzene	mg/l	<0.007	<0.007	<0.007	-
Toluene	mg/l	<0.004	<0.004	<0.004	-
Ethyl benzene	mg/l	<0.005	<0.005	<0.005	-
Xylene	mg/l	<0.003	<0.003	<0.003	-
Total PAH's	mg/l	<0.0003	<0.0003	<0.0003	-

Parameter Q2	Units	Monitoring Location Q2			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	<1	<1	2.48	25
Total Suspended Solids	mg/l	<2	<2	<2	60
Oils Fats and Greases	mg/l	<1	<1	<1	-
pH	-	8.18	8.2	7.85	-
Total Ammonia (N)	mg/l	0.243	<0.2	0.471	-
TPH	mg/l	<1	<1	<1	-
Total PolyChlorinated BiPhenyls	mg/l	<0.0001	<0.0001	<0.0001	
Mineral Oil	mg/l	0.045	<0.01	0.58	5
DRO	mg/l	1.104	0.056	0.25	-
PRO	mg/l	<0.05	<0.05	<0.05	-
Benzene	mg/l	<0.007	<0.007	<0.007	-
Toluene	mg/l	<0.004	<0.004	<0.004	-
Ethyl benzene	mg/l	<0.005	<0.005	<0.005	-
Xylene	mg/l	<0.003	<0.003	<0.003	-
Total PAH's	mg/l	<0.0003	<0.0003	<0.0003	-

Parameter Q3	Units	Monitoring Location Q3			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	2	3	2	25
Total Suspended Solids	mg/l	<10	<10	<10	60
Oils Fats and Greases	mg/l	<10	<10	<10	-
pH	-	7.37	7.54	7.53	-
Total Ammonia (N)	mg/l	2.17	0.19	1.33	-

Parameter Q4	Units	Monitoring Location Q4			Waste Licence Trigger Limits for SE1
		SW1	SW2	SE1	
BOD	mg/l	<1	2	<1	25
Total Suspended Solids	mg/l	<10	<10	<10	60
Oils Fats and Greases	mg/l	<10	<10	<10	-
pH	-	7.26	7.88	7.84	-
Total Ammonia	mg/l	0.33	0.09	0.18	-

### Summary of Results

Surface water results for this sampling period are all within 'typical' level with the BOD and Total Suspended Solids within the waste licence trigger limits for SE1. Results indicate that waste transfer station activities are not resulting in any pollution to local stream.

The full surface water monitoring reports were submitted to ALDER system.



### 3.5. Groundwater Monitoring

Groundwater samples are taken on annually basis at six monitoring locations, GW-1, GW-2, GW-3, GW4, GW5 and GW6, during the monitoring period. However this schedule has changed by the Agency to the bi- annual. Groundwater sampling was carried quarterly starting since first quarter at the waste transfer station. The ranges of results recorded during sampling are presented in Table 3.5.1.

**Table 3.5.1. Groundwater Monitoring Results: 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014.**

Parameter Q1	Units	GW1	GW2	GW3	GW4	GW5	GW6
Total Polychlorinated Biphenyl's	mg/l	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total petroleum Hydrocarbons	mg/l	0.39	<0.0001	0.0581	<0.0001	0.014	0.0638
Mineral Oils	mg/l	<0.01	<0.01	21.2	0.01	6.9	15.5
Diesel Range Organics	mg/l	<0.05	0.046	33.8	0.046	4.84	4.41
Petrol Range Organics	mg/l	<0.05	<0.05	<0.05	<0.05	0.13	0.72
Benzene	mg/l	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Toluene	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Ethyl Benzene	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total PAH's	mg/l	<0.0017	<0.0003	0.0018	<0.0003	0.0003	0.034

Parameter Q2	Units	GW1	GW2	GW3	GW4	GW5	GW6
Total Polychlorinated Biphenyl's	mg/l	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total petroleum Hydrocarbons	mg/l	<0.001	<0.001	0.0116	<0.001	0.0999	0.00176
Mineral Oils	mg/l	<0.01	<0.128	3.96	<0.01	21.4	0.242
Diesel Range Organics	mg/l	<0.046	0.262	6.63	<0.046	26.0	0.413
Petrol Range Organics	mg/l	<0.05	1.09	<0.05	<0.05	0.203	<0.05
Benzene	mg/l	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Toluene	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Ethyl Benzene	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylene	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total PAH's	mg/l	<0.0003	<0.0034	<0.0007	<0.0003	<0.0094	0.0031

## Summary of Results

During the first quarter results show slightly elevated levels of Diesel Range Organics (DRO), Total Petroleum Hydrocarbons (TPH) and Mineral oil in boreholes GW3, GW5 and GW6. These results show elevations slightly lower to those submitted regularly in previous reports.

During the second quarter BTEX was not detected at any location. Results show elevated levels of Diesel Range Organics (DRO), Total Petroleum Hydrocarbons (TPH), Petrol Range Organics (PRO), and Mineral oil in boreholes GW2, GW3, GW5 and GW6. Elevated levels of hydrocarbons have been consistently detected in the groundwater since monitoring began in 2006 and these persist although at lower levels than previous monitoring events.

The elevated parameters are not considered to be the result of licensed activities onsite.

The full groundwater monitoring reports were submitted to ALDER system.



### 3.6. Noise Monitoring Results

During 2014, noise monitoring of the waste transfer station was carried out by McCarthy Keville O'Sullivan Ltd. personnel on 26th June 2014. Monitoring was carried out for 15-minute intervals during daytime (i.e. after 8:00am) and night time (between 5:00am and 8:00am) periods, in line with Schedule D3 of EPA Waste Licence 0148-1 for the waste transfer facility. The environmental noise monitoring was carried out in accordance with the ISO 1996 guidelines 'Acoustics – Description and Measurement of Environmental Noise Parts 1, 2 and 3' and the noise monitoring report is presented in accordance with the 2003 EPA guidance document, 'Environmental Noise Survey'.

**Table 3.4.1 Noise Monitoring Results: Night-time**

Location	Time	L Aeq, 15min dB(A)	L A90, 15min dB(A)	L A10, 15min dB(A)	Notes
N1	04:56- 05:11	50.8	29.8	56.3	Truck started up at 04:56 in the yard and left at 05:01. Train passed at 05:12. Traffic audible on the N6.
N2	05:14- 05:29	41.9	36.5	45.1	A car approached the site entrance at 05:22 – did not enter. Birds and sheep audible in the background. Very light breeze. Traffic audible on the N6.
N3	05:31- 05:46	47.9	33.1	41.1	Train passed at 05:38. Birds and sheep audible in the background. No activity in transfer station yard. Traffic audible on the N6
N4	05:50- 06:05	59.5	42.4	64.5	A jeep entered the site and a truck was started at 06:00. Truck idling on site. A car entered the site at 06:05. Birds audible in the background. Traffic audible on main roads.
NSL5	06:10- 06:25	46.0	41.3	48.6	Traffic audible on the N6. A light drizzle began to fall during the measurement
NSL6	06:27- 06:42	46.7	39.7	49.5	Birds audible in the background. Traffic audible on the N6. Slight breeze. Trees/leaves/branches fluttering in the breeze. Water drops falling from the trees.
NSL7	06:51- 07:06	42.0	38.5	43.6	Birds audible in the background. Slight breeze

**Table 3.4.2 Noise Monitoring Results: Daytime**

Location	Time	L Aeq, 15min dB(A)	L A90, 15min dB(A)	L A10, 15min dB(A)	Notes
N1	08:04- 08:19	52.3	46.2	55.3	Machinery in use on Galway Metal site at 08:05. Light rainfall throughout. Machinery in use on Galway Metal site again from 08:09 and continuous throughout measurement. Train passed 08:18. Birds audible in the background. Traffic audible on the surrounding roads.
N2	08:23- 08:38	58.6	51.3	61.3	Machinery working in Galway Metal site throughout measurement. Car entered the site at 08:25. Small truck started at 08:28. Loitering around the yard for the duration of the measurement in the vicinity of the noise metre. Train passed 08:18. Steady rainfall. Birds audible in the background. Traffic audible on the surrounding roads.
N3	08:40- 08:55	52.7	47.9	55.3	Machinery working in Galway Metal site throughout measurement. Truck from previous reading still idling. Moved across the site at 08:47. Left the site at 08:49. Truck came out of the neighbouring Galway Oil site at

					08:50. Steady rainfall. Car entered the site at 08:55 Steady rainfall. Traffic audible on the surrounding roads.
N4	08:59- 09:14	53.2	49.4	55.1	Machinery working in Galway Metal site throughout measurement. Van entered the site at 09:02. Train passed 09:08. Small truck started at 09:12 and remained on the site. Lighter rain. Birds audible in the background. Traffic slightly audible on the surrounding roads.
NSL5	09:19- 09:44	49.5	47.9	50.6	Machinery working in Galway Metal site with the occasional engine revving. Machinery dropping loads of metal throughout. Air handling units from adjacent warehouse providing a slight background noise. Birds audible in the background. Traffic audible on the N6.
NSL6	09:36- 09:51	48.9	45.3	50.4	Birds audible in the background. Traffic audible on the N6. Raining throughout. Water drops falling from the trees.
NSL7	09:59- 10:14	41.1	37.0	41.6	Birds audible in the background. Traffic audible in the background.

### Summary of Results

The night-time noise emission limit of LAeq 45dB was exceeded at all but one of the off-site noise sensitive locations during the night-time monitoring period. The ongoing activities in the waste transfer station were not audible from the off-site locations which suggests that the night time threshold is exceeded without any contribution from the noise generated at the waste transfer station. The daytime noise license threshold limit of LAeq 55dB was exceeded at monitoring location N2 only where trucks starting and loitering in the vicinity of the noise metre resulted in high readings. This is just normal activity to be expected at the site and of the area where the site is located. In general, exceedances are not however attributable entirely to activities within the waste transfer station. The high volumes of traffic on the nearby 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 onsite 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 2014.

No tonal or impulsive component in the noise emissions from activity at noise sensitive locations were found to be present.

The full noise monitoring report was submitted to ALDER system.

### 3.7. Foul Water Transported Offsite

Kingspan has serviced silt tanks on 03/04/2014, the filter has been changed in bypass separator and the tank was emptied by Comhlacht Lompar Clochmor Teo and washed down.

On EPA request the oil interceptor, silt tank and mobile bunds has been correctly integrity tested on 07/08/2014. The Oil and water has been removed from tanks in quantity of 2000l on 01/08/2014 by ENVA Ireland Limited.

## 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 2014 to 31<sup>st</sup> December 2014.

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

Resource/ Energy Use	Quantity	Unit
Electricity (sage )	62,911	kWhr
Diesel	12,976	Liter

## 5. Report on Development Work

### 5.1. Works for the Preceding year

During the reporting period 1<sup>st</sup> January 2014 to 31<sup>st</sup> December 2014 the licensee has completed the development works as listed in Table 5.1.1.

**Table 5.1.1. Development Works between 1<sup>st</sup> January 2014 and 31<sup>st</sup> December 2014**

Item	Works	Licence Condition
1	Reduce energy usage	N/A
2	Implement recycling and composting campaign for our customers	N/A
3	Prepare better fire prevention security at the Waste Facility	N/A

### 5.2. Works for the Coming Year

The following is the proposed works for the reporting period 1<sup>st</sup> January 2015 to 31<sup>st</sup> December 2015 the licensee has currently planned as listed in Table 5.2.1.

**Table 5.2.1. Proposed Development Works between 1<sup>st</sup> January 2015 and 31<sup>st</sup> December 2015.**

Item	Works	Licence Condition
1	Implement better security system on site	N/A
2	Implement composting campaign for our customers	N/A
3	Prepare sorting material project	N/A

## 6. Schedule of Environmental Targets and Objectives

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

Table 6.1.1 below is the environmental objectives and targets set for 2014.

**Table 6.1.1 Objectives & Targets for 2014**

Objective	Target	Responsibility	Completion
Energy Usage	Reduce the amount of energy used by the transfer station by 4% i.e. electricity & diesel consumption  <b>Method to achieved the target:</b> Inserting timing switches on all light fittings to control lighting patterns	Facility Manager	Dec 2014
Odour Management and abetment	To develop an improved odour management system so that no complaints are received from either Public or EPA regarding Odour  <b>Method to achieved the target</b> Keep EWC 200301 and EWC 200108 to a minimum over night by increasing output from facility on a daily basis	Facility Manager	Dec 2014
Train Staff to appropriate level for their position	Train 1,2 people in facility management  <b>Method to achieved the target</b> Personal one to one training with Facility Manager and introduce all aspect of Health and Safety roles.	Facility Manager	Dec 2014
Groundwater protection	To Reduce BOD & suspended Solid  <b>Method to achieved the target</b> Use environmental socks in pre & post silt tank. Interceptor fully serviced by a Kingspan	Facility Manager	May 2014
Additional improvements	Traffic Management  <b>Method to achieved the target:</b> Improved parking & obstacles removed	Facility Manager	Dec 2014



## 6.2. Objectives and Targets for the Forthcoming Year

The objectives and targets listed in Table 6.2.1 have been set for 2015.

**Table 6.2.1 Objectives & Targets for 2015**

Objective	Target	Responsibility	Completion
Fuel Consumption	Efficiency of fuel consumption  <b>Method to achieved the target:</b> Computer programme being acquired for The City Bin Co to manage collection route to ensure maximum efficiency of labour and raw materials	Operation Manager	Dec 2015
Compost Waste	Improve the awareness of composting at the transfer station – more composting on waste separation at the public section of the site  <b>Method to achieved the target:</b> Erecting extra signage on Public area and educating public users	Facility Manager	Dec 2015
Train Staff to appropriate level for their position	Train 1,2 people in facility management  <b>Method to achieved the target</b> Personal one to one training with Facility Manager and introduce all aspect of Health and Safety roles.	Facility Manager	Ongoing
Additional improvements	Traffic Management  <b>Method to achieved the target:</b> Improved parking & obstacles removed	Facility Manager	Ongoing
Environmental Monitoring	As per Waste Licence reduce BOD, suspended Solid and Dust  <b>Method to achieved the target</b> Not let exceeded the trigger limits for monitoring parameters.	Facility Manager	Dec 2015
Litter Management and abatement	To develop litter management and control system regarding window blow litter.  <b>Method to achieved the target</b> Weekly mechanical yard sweeping.	Facility Manager	Dec 2015
Odour Management and Waste storage	To develop an improved odour management system and waste storage at the facility  <b>Method to achieved the target</b> Keep EWC 200301 and EWC 200108 to a minimum over night by increasing output from facility on a daily basis	Facility Manager	Dec 2015

## 7. Description of Procedures Developed

A review of the site procedures was carried out, and amendments were made to the below procedure, please see Table 7.1

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

Procedure	Description
EP7015	Environmental Sampling, Monitoring and Reporting Personnel
HSP4000	Safety Statements
EP7001	Transfer Station Management Structure
EP7019	Decommissioning and Aftercare Plan

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

### 8.1. Tanks

The Agency carried out a routine Site Visit in May 2014 and issued a Site Visit Report (SVR) on the 10th June 2014. Sections 2.4 and 2.5 of the SVR highlighted that the onsite surface water drainage interceptor had not recently been integrity tested and that the previous integrity testing of the surface water drainage system silt tank as well as four mobile plastic pallet bunds had not been reported using the Agency's Standard Template for the recording and reporting of bund test results.

The City Bin Company Ltd commissioned McCarthy Keville O'Sullivan Ltd to carry out integrity testing of their facility's surface water drainage interceptor, silt tank and four mobile plastic bunds. The testing was carried out in accordance with the guidance provided in the SVR report.

The tank is a concrete, cast-in-situ tank, most likely installed at the same time as the concrete yard surface was being laid. The tank measures approximately 2 metres x 5.5 metres in plan, with a depth of 1.5 metres, and is covered with a steel plate, which can be lifted off by facility machinery as required.

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 silt tank is constructed of reinforced concrete sides and base. The concrete appears in good condition with no evidence of cracks or seepage of water into tanks when empty.

The interceptor is Kingspan fibre glass self-contained unit. Access to the tank is limited however the main chamber was observed and appeared to be in good conditions, intact and fit for purpose.

The Integrity test monitoring report was submitted to ALDER system. The next integrity test will be in August 2017.

## **8.2. Pipework**

There are two pipe work 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 four small plastic spill pallet bunds used to store smaller oil cans and 200l oil barrels. Each are of a similar construction design and size. However there are no drums present at the facility. The Agency required during the Audit the integrity test for the interceptor and during these works the mobile bounds were tested as well. The water tightness test was conducted by Michael Watson and Owen Cahill of McCarthy Keville O’Sullivan Ltd.

The partial hydrostatic test undertaken to test the water tightness of the spill pallet currently in use did not result in any drop in water level over the test period nor did it show any signs of leakage.

## **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 practice employed at the facility, the potential for odour to become a nuisance in the local environment is considered to be minimal.

### **11. Financial Provision**

The Waste Licence holder annually provides the Environmental Protection Agency with a minimum of €7,059.48 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. Transfer Station Management and Staffing Structure**

The Facility Manager at the site is Mr. Donagh Killilea. There are also two Deputy Facility Managers: Mr. James Browne and Mrs. Katarzyna (Kate) Rybczynska.

Mr. Thomas Hynes is the Assistant Facility Manager and Mr. Sean Hansbury is the Weighbridge Operator.

### **13. AER/ PRTR Reporting for 2014**

[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2014
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## 1. FACILITY IDENTIFICATION

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

### Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Townlands of Carrowmoneash
Address 2	Oranmore
Address 3	
Address 4	
	Galway
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>	23500
<b>Number of Employees</b>	149
<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. 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
--	----

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: W0148 | Facility Name : City Bin Co Ltd | Filename : W0148\_2014.xls | Return Year : 2014 |

31/03/2015 10:51

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
RELEASES TO AIR		METHOD USED			QUANTITY			
No. Annex II	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	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			Please enter all quantities in this section in KGs			
RELEASES TO AIR		METHOD USED			QUANTITY			
No. Annex II	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	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			Please enter all quantities in this section in KGs			
RELEASES TO AIR		METHOD USED			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	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 Code	Designation or Description	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/s	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\_2014.xls | Return Year : 2014 |

31/03/2015 10:51

**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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	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	0.0

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

**SECTION B : REMAINING PRTR POLLUTANTS**

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	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	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)**

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			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	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\_2014.xls | Return Year : 2014

31/03/2015 10:51

**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\_2014.xls | Return Year : 2014 |

31/03/2015 10:51

SECTION A : PRTR POLLUTANTS

POLLUTANT		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	Name	M/C/E	Method Code	Method Used 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)

POLLUTANT		RELEASURES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Method Used 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\_2014.xls | Return Year : 2014 |

31/03/2015 10:51

Please enter all quantities on this sheet in Tonnes

0

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 : Address of Next Destination Facility	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)
						Haz Waste: Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer						
						M/C/E	Method Used						
Within the Country	20 01 08	No	10.92	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Barna Recycling,W106-02		Carrowbrowne ,Headford Road,Galway,0,Ireland		
Within the Country	20 01 39	No	0.78	plastics	R5	M	Weighed	Offsite in Ireland	Wers Waste Ltd,Licence WR/84		Road Tuam ,Co Galway,0,Ireland		
Within the Country	20 03 01	No	3689.62	mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Dillon Waste Recycling,WFP KY 10-001		The Kerries,Tralee,Co Kerry,0,Ireland		
Within the Country	20 03 01	No	938.38	mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0140-03		Rathdrinagh,Beauparc,Navan,Co Meath,Ireland		
Within the Country	20 03 01	No	13212.14	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Bord na Móna Environmental Ltd,W0201-02		Main Street,Newbridge,Co. Kildare,0,Ireland		
Within the Country	20 03 07	No	43.04	bulky waste	R5	M	Weighed	Offsite in Ireland	Wers Waste Ltd,Licence WR/84		Road Tuam ,Co Galway,0,Ireland		
Within the Country	17 05 04	No	133.94	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Offsite in Ireland	Barna Golf Club,Corboley Barna Co Galway COR-G-13-0001-01		Corboley ,Barna,Galway,Galway,Ireland		
Within the Country	20 03 07	No	46.0	bulky waste	R5	M	Weighed	Offsite in Ireland	Barna Recycling,W106-02		Carrowbrowne ,Headford Road,Galway,0,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](#)

[Link to Waste Guidance](#)