

OXIGEN ENVIRONMENTAL



Annual Environmental Report 2016

W0152-03

Waste Transfer Station

At

Robinhood Industrial Estate,

Robinhood Road

Ballymount

Dublin 22

PREPARED BY OXIGEN ENVIRONMENTAL

MARCH 2017

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1.0 Introduction

Oxigen Environmental holds an EPA Waste Licence (Reg No W0152-03) to operate a waste transfer & baling station at the Robinhood Industrial Estate, Dublin 22. In accordance with the requirements of condition 11.9 of the waste licence, an Annual Environmental Report (AER) for the facility must be submitted to the Environmental Protection Agency (EPA).

The AER covers the reporting period from the 1st January 2016- 31st December 2016.

The facility is located at:

Oxigen Environmental
Robinhood Industrial Estate,
Robinhood Road,
Dublin 22

The facility is located within an industrial area and is surrounded by Commercial units. The Robinhood Road is located at the northern boundary of the site.

Waste Handling activities at the site in 2016 consisted of acceptance, processing and despatch of household & commercial waste.

The activities which are permitted on site are as follows:

Third Schedule, Class 11 **Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.**

This activity is limited to bulking and transfer of waste.

Third Schedule, Class 12 **Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.**

This activity is limited to the transfer and reloading of waste.

Third Schedule, Class 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.**

This activity is limited to storage prior to bulking and transfer or waste

2.0 Quantity and Composition of Waste Recovered, Received and Disposed

2.1 Waste Accepted

Waste Accepted at the facility consisted of a mixture of household & commercial waste. The material accepted at the Oxigen Robinhood Facility during the reporting period is outlined in the table below. Material received at the Oxigen Robinhood facility shall either be processed & baled for export or bulked up for transporting onto further approved destinations for recovery or disposal. A breakdown of waste received at the facility can be found in figure 1.

Figure 1: Waste Accepted 2016

Waste Type	EWC	Quantity (Kg)
CARDBOARD PACKAGING	15 01 01	7,180
CND WASTE	17 09 04	32,160
CNI BULKY WASTE	20 03 07	3,178,040
CRUSHED RUBBLE	17 01 07	11,520
DMR - COMMERCIAL	20 03 01	36,420
DMR - DOMESTIC	20 03 01	860
END OF LIFE TYRES	16 01 03	2,800
GULLY WASTE	20 03 03	389,570
MSW MUNICIPAL WASTE	20 03 01	16,023,970
ORGANIC FINES	19 12 12	266,580
PLASTICS - MIXED	20 01 39	63,840
RDF	19 12 12	1,774,380
STREET SWEEPINGS	20 03 03	1,714,470
WOOD - NON PACKAGING	20 01 38	21,920
Grand Total		23,523,710

2.2 Waste Dispatched

All waste dispatched from the Oxigen Robinhood Facility was transferred to an approved destination. A breakdown of the waste transferred off site to each destination is outlined below.

Figure 2: Waste Dispatched 2016

Waste Type	EWC	Customer Description	PERMIT/LICENCE	Total (kgs)
CND WASTE	17 09 04	KNOCKHARLY LANDFILL	W0146-02	23,600
		OXIGEN DUNDALK	W0144-01	94,630
CNI BULKY WASTE	20 03 07	KNOCKHARLY LANDFILL	W0146-02	20,040
		OXIGEN DUNDALK	W0144-01	625,580
		BALLYNAGRAN LANDFILL	W165-02	146,110
		DREHID LANDFILL	W0201-03	57,140
END OF LIFE TYRES	16 01 03	CRUMB RUBBER	WFP-LH-10-0005-01	3,580
			WFP-KE-10-0064-01	463,880
GREEN BIODEGRADABLE WASTE	20 02 01	CLEARY COMPOST	W0198-01	338,080
		BORD NA MONA KILBERRY	W0198-01	338,080
MSW MUNICIPAL WASTE	20 03 01	KNOCKHARLY LANDFILL	W0146-02	20,200
		BALLYNAGRAN LANDFILL	W165-02	3,258,760
		INDAVER IRELAND LTD	W0167-03	95,740
		DREHID LANDFILL	W0201-03	50,020
MSW PROCESSED	19 12 12	KNOCKHARLY LANDFILL	W0146-02	1,359,860
		OXIGEN DUNDALK	W0144-01	20,120
		BALLYNAGRAN LANDFILL	W165-02	3,017,600
		INDAVER IRELAND LTD	W0167-03	305,410
		DREHID LANDFILL	W0201-03	4,537,240
ORGANIC FINES	19 12 12	ENRICH ENVIRONMENTAL	WMP 2004/57	363,520
		DREHID COMPOSTING	W0201-03	572,580
		BORD NA MONA KILBERRY	W0198-01	85,060
RDF	19 12 12	DROGHEDA PORT QUAYSIDE STORAGE LOCATION	WPF-LH-13-001-01	6,439,760
		DREHID LANDFILL	W0201-03	1,578,440
Grand Total				23,476,950

3.0 Environmental Monitoring

All environmental monitoring conducted at Oxigen Robinhood is carried out by an approved contractor. The results of the monitoring are summarised below. Full original copies of the monitoring reports are maintained on site for inspection by the agency. As per schedule C monitoring is carried out on emissions to Air, Surface Water, Sewer & Dust.

3.1 Surface Water

Currently the surface water system on site is shut off. All surface water is being tankered off site to an approved destination. As a result of this the monitoring location for surface water (TSW2) was reported as being Dry.

Figure 3: Surface Water Results

Parameters	Units	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temperature	*C	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
pH	pH units	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Conductivity	uScm -1	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BOD	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
COD	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SS	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Ammonia	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Mineral Oils	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Sulphates	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Total Nitrogen	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Chloride	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

3.2 Foul Water

Foul water monitoring was carried out throughout 2016.

Figure 4: Monthly Foul Water

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature	N/A	28	N/A	N/A	15.5	N/A	19.8	N/A	N/A	N/A	N/A	N/A
pH	N/A	6.99	N/A	N/A	7.2	N/A	6.95	N/A	N/A	N/A	N/A	N/A
BOD	N/A	208	N/A	N/A	220	N/A	*****	N/A	N/A	N/A	N/A	N/A
COD	N/A	440	N/A	N/A	775	N/A	2150	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	N/A	324	N/A	N/A	320	N/A	410	N/A	N/A	N/A	N/A	N/A
Sulphates (as SO4)	N/A	51	N/A	N/A	75	N/A	<10	N/A	N/A	N/A	N/A	N/A
Oils, Fats & Grease	N/A	81	N/A	N/A	51	N/A	95	N/A	N/A	N/A	N/A	N/A
Mineral Oils	N/A	8.8	N/A	N/A	8.9	N/A	*****	N/A	N/A	N/A	N/A	N/A
Detergents	N/A	<0.1	N/A	N/A	<0.0001	N/A	0.235	N/A	N/A	N/A	N/A	N/A

3.3 Air Monitoring

Air monitoring occurs at three locations around the facility. The parameters which are measured include Mercaptans, Hydrogen Sulphide & Ammonia. There is no change in the results throughout the course of the year.

Figure 5: Monthly Air Monitoring

	Parameter	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Emission Point A	CH4S	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	H2S	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	NH3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Emission Point B	CH4S	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	H2S	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	NH3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Emission Point C	CH4S	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	H2S	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	NH3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25

3.4 Dust Monitoring

Figure 6: Dust Monitoring (Average)

D1	D2	D3
145.4	107.025	142.725

All dust monitoring was within the required limits as set out under the conditions of W0152-03.

4.0 Resource Consumption

The main natural resources used on site are Electricity, Gas Oil & Water. The main users of the energy are in the RDF plant, grab machine, loading shovel & on site shunter.

4.1 Electricity Usage

The total electricity usage for the site for 2016 was 312 Mw Hrs. The large reduction on the 2015 figure is primarily due to reduction in the production of RDF.

4.2 Diesel Consumption

The main use of diesel on site is for the rolling plant, which includes a loading shovel, grab machine & forklift. Diesel usage on site for 2016 was in the region of 18m³.

4.3 Water Usage

Water usage on site is calculated to be 201m³ for 2016. Water is only used for the washing down of shed and yard area and the washing down of rolling plant. A small amount of water would also be used within the staff welfare facilities. No water is used on site for the processing of waste.

5.0 Infrastructural Developments

No major infrastructural works took place at the Oxigen Robinhood depot in 2016.

Routine works were carried out at the facility. These included carrying out visual inspections of the hardstanding and carrying out repairs as necessary.

The carbon within the odour abatement system was also changed during 2016.

6.0 Environmental Management Program

Oxigen Environmental operates an Environmental Management system accredited to the ISO14001 standard. As part of this Objectives and targets are set each year. Those that were set for 2016 and their progress towards completion are detailed below. Also detailed below are the proposed objectives and targets set out for 2017.

As part of the Environmental Management Programme Oxigen Environmental is committed to the following:

- The prevention of pollution and continual improvement through the setting of and continual review of environmental objectives and targets and the pioneering new innovative technologies.
- Compliance with all applicable Irish and EU legislation, policies, plans and targets and the ISO14001:2004 Standard.
- Ensuring efficient usage of resources such as electricity, water and fuel and promoting a policy of recycling/recovery of waste wherever possible, both in-house and with customers.
- Providing the necessary training and support to employees to ensure that they are able to fulfil the commitments set out in this statement of company policy.
- Minimising the risks of environmental incidents and, in conjunction with the appropriate authorities, ensuring an emergency response capability to deal with leaks or spillages.
- Encouraging contractors, suppliers and customers to develop a similarly concerned approach to the protection of the environment.
- Being open and honest, and increasing public awareness on environmental sensitivity and responsible waste management. Our Environmental policy & information relating to each facility is available to all interested parties.
- Fully considering the impact on the environment before committing capital expenditure or entering into any new business ventures.

Figure 7: EMS Review 2016

DOC OXE05 Objective & Target Programme (2016)					REV 01	
Objective	Description	Aspect	Target	Person Responsible	Progress	Comment
1	To improve drainage system on site to reduce the impact to receiving water	Natural Resources	Investigate the possibility of diverting surface water (dirty water - trade effluent) run off from concrete yard area to foul water drainage system on site. Before these works can be carried out on site relevant approval is required from Irish Water / SDCC and EPA.	Eng Team, Operations Manager, Compliance Team	20	Based on the information available it is proposed to continue with this
2	To reduce emissions to groundwater	Natural Resources	Carry Out a full inspection of the concrete hardstand at the Facility	Engineering Team, Operations Manager, Compliance Team	100	Inspection conducted and minor repairs carried out as needed
			Implement a programme of works to ensure all areas of the hardstand are sufficiently covered.		30	Routine inspections been carried out. Documented procedure and mechanism to record same to be put in place
3	To reduce Air Emissions from the facility	Odour	Provide induction training to all new staff on site and make them aware of the importance of the control measures in place	Environmental Compliance Team	0	No new staff were employed at the Oxigen Robinhood Depot in 2016. This target objective will be carried forward to 2017.

			Replacement of the Carbon in the Odour Abatement System	Operations Manager/ Facility Manager	100	Carbon Replaced
4	To ensure emergency preparedness and response	Fire/ Natural Resources	To review and update the emergency response procedure as required	Environmental Compliance Team/ Facility Manager	100	Emergency Response Procedure reviewed.
			Carry out training into all aspects of the Emergency Response		100	Facility Manager conducted toolbox talks with the staff at the facility
			Carry out a test of the emergency response procedure by simulating an incident	Operations Manager/ Facility Manager/ Environmental compliance team	50	Fire drills conducted. Planned simulation of a spill was not completed; however this may be done in early 2017.
5	Waste Characterisation Studies	Natural Resources	Complete a waste characterisation Study to understand the material being consigned to the facility	Operations Manager/ Environmental Compliance Team	100	Waste Characterisation study completed

Figure 8: Objective & Targets 2017

Objective	Description	Aspect	Target	Person Responsible
1	To improve drainage system on site to reduce the impact to receiving water	Natural Resources	Before these works can be carried out on site relevant approval is required from Irish Water / SDCC and EPA.	Eng Team, Operations Manager, Compliance Team
2	To reduce emissions to groundwater	Natural Resources	Carry Out a full inspection of the concrete hardstand at the Facility	Engineering Team, Operations Manager, Compliance Team
			Develop a documented procedure for the preventative maintenance programme for the inspection & repair of the concrete hardstand	
3	To reduce Air Emissions from the facility	Odour	Provide comprehensive induction training to all new staff on site and make them aware of the importance of the control measures in place	Environmental Compliance Team
4	To ensure emergency preparedness and response	Fire/ Natural Resources	Carry out a test of the emergency response procedure by simulating an incident	Operations Manager/ Facility Manager/ Environmental compliance team
5	Increase Environmental awareness & education on site	General Compliance	Identify any training requirements of the staff on site	Environmental Compliance Team
6	Improve Health & Safety/Security at the Facility	Security / H&S	Barriers replaced at in gate and out gate	Operations Team
			Rebuild wall at baler end of shed	
			Replace 3 metal shutters doors a.b.c inside rapid up and over shutters	
			New fire upright pipe for hoses in yard	

7.0 Tank, Drains & Bund Testing Summary

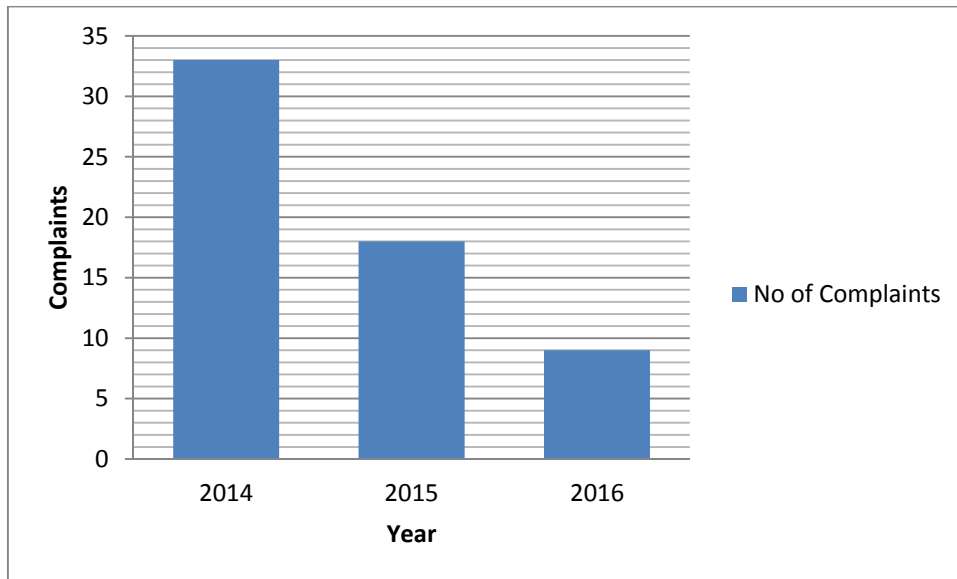
As per condition 3.10.5 of W152-03, the integrity and water tightness of all bunds must be demonstrated by the licence holder at a minimum of once every three years.

All bunds on site were tested by the facility manager in May 2016. These will be retested by the facility manager by June 2019. All bund testing is carried out in accordance with OXEP 21 Bund testing Procedure. Copies of the bund testing results are maintained by the Environmental Compliance department.

8.0 Complaints & Incidents Summary

8.1 Complaints Summary

A total of 9 complaints were received in 2016. This represents a 50% decrease in the number of complaints received by Oxigen Environmental Robinhood when compared to 2015 & a 72% reduction in comparison to 2014. This is largely down to a commitment by Oxigen Environmental to reduce and minimise the risk of nuisance being created in the surrounding area.



A copy of the complaints register for Oxigen Robinhood is available at the facility office.

8.2 Incidents Summary

Oxigen Environmental reported no incidents to the EPA during 2016.

9.0 Review of Nuisance Controls

9.1 Nuisance Control Introduction

Oxigen Environmental is committed to the reduction in the risk of any nuisance causing or potentially causing environmental pollution. The facility manager conducts daily, weekly and monthly site checks to ensure that no nuisance is being identified on site. A record of these inspections is maintained at the facility for viewing by the agency. The environmental compliance team shall also conduct regular inspections of the facility to ensure that no nuisance is being caused by on site activities. The main risk of nuisance comes from odour, rodents & flies.

9.2 Odour

Odour continues to remain one of the most significant aspects facing Oxigen Robinhood. In order to counteract this Oxigen have employed strict control measures to reduce the risk. These include:

- Increased training & awareness among staff. This was done through the use of toolbox talks and refresher training which was provided by the Environmental Compliance Team
- Daily checks on the odour abatement system by the facility manager
- Routine odour assessments conducted in the area by the environmental compliance team at sensitive receptors.

9.3 Pest Control

Oxigen Environmental employs the services of Eastern Pest Control (EPC) in order to monitor and eradicate pests on site. A number of bait boxes are located around the facility which EPC check during their site visits. EPC are contracted to carry out a minimum of eight site visits per annum to check on rodent control. No increase in rodents was noted during any of their inspections.

9.4 Fly Control

EPC also provide Oxigen Environmental with Fly Control measures to reduce any fly activity. Fly spraying is carried out at regular intervals throughout the year with spraying increasing during periods of warmer weather or whenever increased fly activity is noted on site during the facility manager's daily site nuisance checks. Records of all fly sprays are maintained on site for inspection by the agency inspectors.

10.0 Financial Provisions

Costing for both ELRA & CP have been agreed with the Agency to date. Oxigen Environmental are currently in the process to put a Bond in place to cover Financial Provisions

11.0 Programme for Public Information

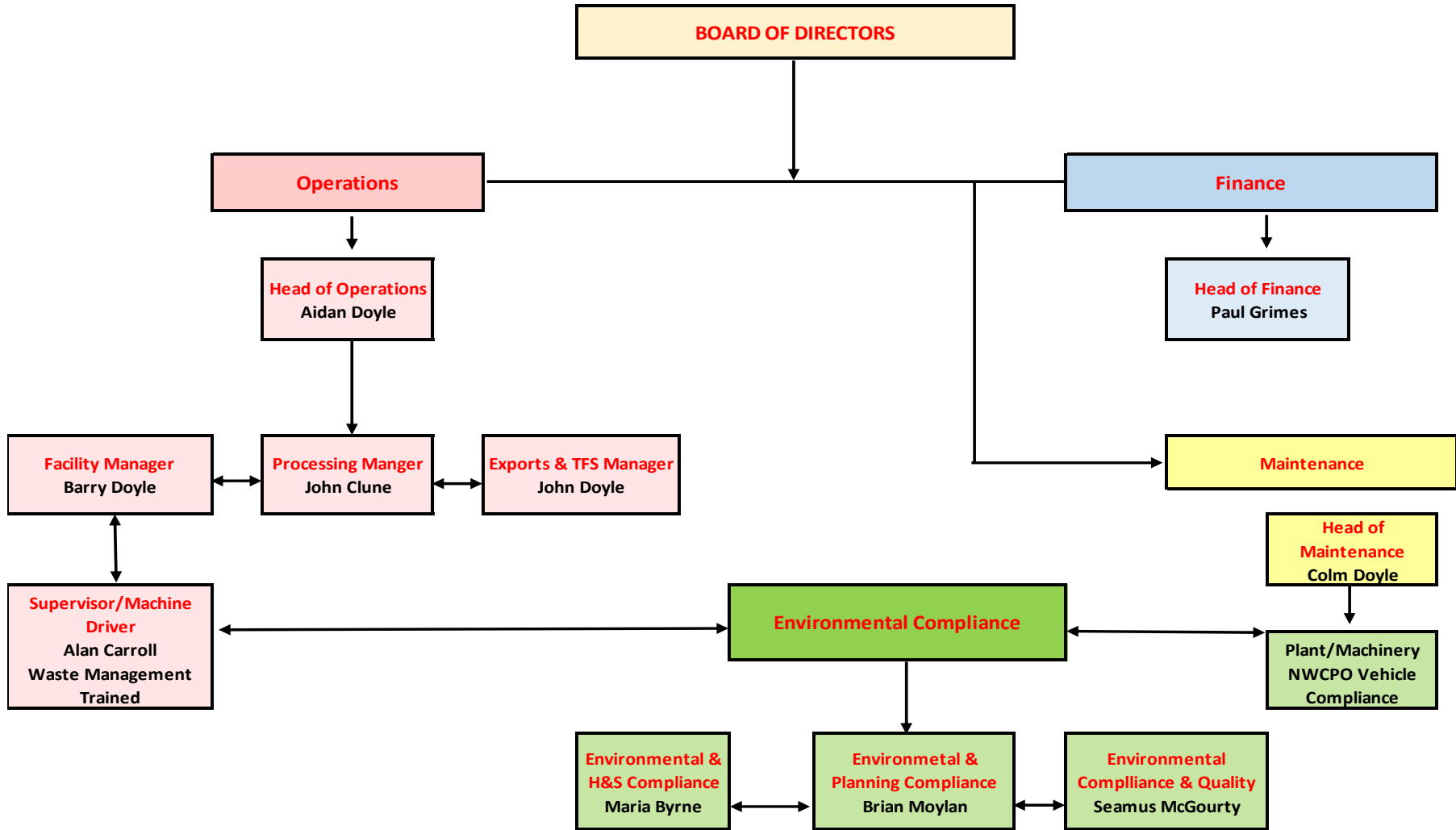
A program for public information is in place at the facility. During the reporting period there were no requests from the public to inspect any of the records and files listed in the submission.

The lists of documents available for inspection in the Communication Folder are as follows:

- Complaints Register
- Current Waste Licence
- Environmental Policy
- Waste Licence W0152-03
- A copy of the facility EMS

Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment either with the Facility Manager or Compliance Officer at the telephone number posted on the main facility entrance sign erected in accordance with Condition 3.3.

12.0 Management Structure





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	Oxigen Environmental
Facility Name	Oxigen Environmental (Robinhood)
PRTR Identification Number	W0152
Licence Number	W0152-03

Classes of Activity

No.	class name
-	Refer to PRTR class activities below

Address 1	Robinhood Industrial Estate
Address 2	Robinhood Road
Address 3	Ballymount
Address 4	Dublin 22
	Dublin
Country	Ireland
Coordinates of Location	-6.35817 53.3189
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Maria Byrne
AER Returns Contact Email Address	mabyrne@oxigen.ie
AER Returns Contact Position	Environmental Compliance Officer
AER Returns Contact Telephone Number	01 4263118
AER Returns Contact Mobile Phone Number	086 0488894
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	10
User Feedback/Comments	Changes due to Site operations
Web Address	www.oxigen.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

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
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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#: W0152 | Facility Name : Oxygen Environmental (Robinhood) | Filename : W0152_2016 (version 1).xls | Return Year : 2016 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			QUANTITY			
Name		M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
No. Annex II						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			
Name		M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
No. Annex II						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					
Name		M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
210	Dust	M	ALT	VDI 4320 Part2	459.45	338.19	451.0	1248.64	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:		Oxygen Environmental (Robinhood)			
Please enter summary data on the quantities of methane flared and / or utilised		M/C/E	Method Used		Facility Total Capacity m3 per hour
T (Total) kg/Year			Method Code	Designation or Description	
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# : W0152 | Facility Name : Oxigen Environmental (Robinhood) | Filename : W0152_2016 (version 1).xls | Return Year : 2016 |

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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		RELEASERS TO WATERS			Please enter all quantities in this section in KGs			
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 PRTR POLLUTANTS

POLLUTANT		RELEASERS TO WATERS			Please enter all quantities in this section in KGs			
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 C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

POLLUTANT		RELEASERS TO WATERS			Please enter all quantities in this section in KGs			
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				
380	2,4 Dichlorophenol (2,4 D)	M	ALT	APHA - 5540 - C	0.0	0.0	0.0	0.0
					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#: W0152 | Facility Name : Oxygen Environmental (Robinhood) | Filename : W0152_2016 (ver

29/03/2017 09:40

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 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 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 Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	M	ALT	APHA - 5210 - B		57.1	57.1	0.0
306	COD	M	ALT	APHA - 5220 - D		149.74	149.74	0.0
240	Suspended Solids	M	ALT	APHA - 2540 - D		46.9	46.9	0.0
314	Fats, Oils and Greases	M	ALT	APHA - 5520 - B		10.1	10.1	0.0
324	Mineral oils	M	ALT	GC-FID		2.36	2.36	0.0
308	Detergents (as MBAS)	M	ALT	APHA - 5540 - C		0.000267	0.0	0.0
343	Sulphate	M	ALT	APHA - 4110 - B		6.05	6.05	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# : W0152 | Facility Name : Oxigen Environmental (Robinhood) | Filename : W0152_2016 (version 1).xls | Return Year : 2016 |

29/03/2017 09:40

SECTION A : PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASERS TO LAND		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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASERS TO LAND		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 : W0152 | Facility Name : Oxygen Environmental (Robinhood) | Filename : W0152_2016 (version 1).xls | Return Year : 2016 |

29/03/2017 09:40

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 Recover/Disposer	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	19 12 12	No	363.52	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (Organic Fines))	R3	M	Weighed	Offsite in Ireland	Enrich Environmental Ltd,WMP2004/57	Larch Hill Stud,Kilcock,Co. Meath, Ireland		
Within the Country	19 12 12	No	4537.24	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (MSW Processed))	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,Co.Kildare,Ireland		
Within the Country	19 12 12	No	1359.86	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (MSW Processed))	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Navan,Co. Meath, Ireland		
Within the Country	19 12 12	No	305.41	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (MSW Processed))	R1	M	Weighed	Offsite in Ireland	Indaver,W0167-02	Carranstown,Duleek,Co. Meath, Ireland		
Within the Country	19 12 12	No	572.58	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (Organic Fines))	R3	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,Co.Kildare,Ireland		
Within the Country	19 12 12	No	6439.76	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11)	R13	M	Weighed	Offsite in Ireland	Drogheda Port Company,WFP-LH-13-0001-01	Tom Roes Point Facility,Baltray Road,Drogheda,Louth,Ireland		
Within the Country	20 03 01	No	50.02	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,Co.Kildare,Ireland		
Within the Country	20 03 01	No	95.74	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver,W0167-02	Carranstown,Duleek,Co. Meath, Ireland		
Within the Country	20 03 01	No	20.2	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Navan,Co. Meath, Ireland		
Within the Country	20 03 07	No	57.14	bulky waste	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,Co.Kildare,Ireland		
Within the Country	20 03 07	No	20.04	bulky waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Navan,Co. Meath, Ireland		
Within the Country	20 03 07	No	625.58	bulky waste	R12	M	Weighed	Offsite in Ireland	Oxygen Environmental ,W0144-01	Coes Road,Dundalk,Co. Louth, Ireland		
Within the Country	20 03 07	No	146.11	bulky waste	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill,W0165-.2	coolbeg,co. wicklow, Ireland		
Within the Country	17 09 04	No	23.6	mixed construction and demolition waste: other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Navan,Co. Meath, Ireland		
Within the Country	17 09 04	No	94.63	mixed construction and demolition waste: other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Oxygen Environmental ,W0144-01	Coes Road,Dundalk,Co. Louth, Ireland		
Within the Country	16 01 03	No	3.58	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Crumb Rubber,WFP-LH-10-0005-01	TD,Dromskin,Dundalk,Co Louth,Ireland		
Within the Country	20 02 01	No	463.88	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Cleary Compost & Shredding ,WFP-KE10-0064-01	Larch Hill,Monasterevin,Co Kildare, Ireland		
Within the Country	20 02 01	No	338.08	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona Kilberry,W0198-01	Kilberry Works,Kilberry ,Co. Kildare, Ireland		
Within the Country	20 03 01	No	3258.76	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill,W0165-.2	coolbeg,co. wicklow, Ireland		
Within the Country	19 12 12	No	20.12	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (PROCESSED MSW))	R12	M	Weighed	Offsite in Ireland	Oxygen Environmental ,W0144-01	Coes Road,Dundalk,Co. Louth, Ireland		
Within the Country	19 12 12	No	3017.6	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (PROCESSED MSW))	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill,W0165-.2	coolbeg,co. wicklow, Ireland		
Within the Country	19 12 12	No	85.06	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (Organic Fines))	R3	M	Weighed	Offsite in Ireland	Bord na Mona Kilberry,W0198-01	Kilberry Works,Kilberry ,Co. Kildare, Ireland		
Within the Country	19 12 12	No	1578.44	other wastes (including mixtures of materials from mechanical treatment of wastes other than those mentioned in 19 12 11 (RDF))	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0203-03	Carbury,Co.Kildare,Ireland		

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