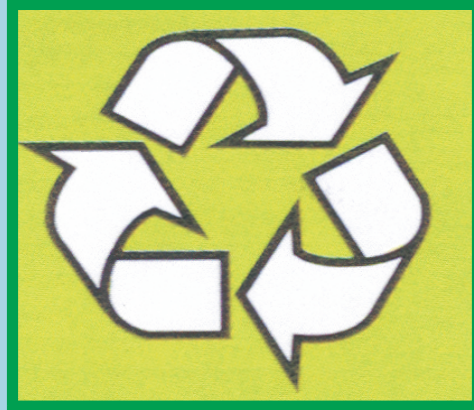


RAY WHELAN LTD



WASTE LICENCE 158-1

ANNUAL ENVIRONMENTAL REPORT 2010

Waste Transfer and Recycling Facility at Cappanaboe, Co Laois

February 2011

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**ANNUAL ENVIRONMENTAL REPORT
January – December 2010.**

CONTENTS

	Page
1. Introduction	1
2. Reporting Period	1
3. Waste Activities Carried out at the Facility	1
4. Quantity and Composition of Wastes Recovered, Received & Disposed of During the Reporting Period and Previous Year	3
5. Summary Report of Emissions	6
6. Summary of Monitoring Results & Location Plan Showing Monitoring Locations	11
7. Resource & Energy Consumption Summary	12
8. Development/Infrastructure Works	13
9. Schedule of Environmental Objectives for 2011	14
10. Progress on Environmental Objectives for 2010	15
11. Written Site Procedures	16
12. Tank, Drum, Pipeline & Bund Testing Report	17
13. Reported Incidents & Complaints Summary	17
14. Review of Nuisance Controls	17
15. Financial Provision, Management Structure & Public Information	18
16. Volume of Waste Water. Produced and Transported Off Site	20
17. Any Other Items Specified by the Agency	20

FIGURES

Figure 1. Monitoring Locations.

TABLES

Table 1.	Quantity of Waste Disposed of and Recycled by Ray Whelan Ltd 2004 - 2010.
Table 2.	Quantity of Waste Received & Disposed of by Ray Whelan Ltd (01/01/10 – 31/12/10)
Table 3.	Quantity of Waste Received & Recycled by Ray Whelan Ltd (01/01/10 –31/12/10)
Table 4.	Site Monitoring Requirements.
Table 5.	Dust Deposition Results (2010)
Table 6.	Dust Deposition Results (2010)
Table 7.	Dust Deposition Results (2010)
Table 8.	Summary of Site Boundary Noise Levels
Table 9.	Summary of Sensitive Locations Noise Levels
Table 10.	Summary of Combined Surface Water Waste & Water Analyses
Table 11.	Summary of Groundwater Sampling Results (2010)
Table 12.	Summary of Resources & Energy Use (2010)
Table 13.	Summary of Progress on Installation of Site Infrastructure
Table 14.	Register of Environmental Objectives & Targets (2011)
Table 15.	Progress of 2010 Environmental Objectives & Targets
Table 16.	List of Written Site Operating Procedures
Table 17.	Quantity of Waste Water Disposed Off (2010)

1. Introduction.

1.1 This Annual Environmental Report (AER) has been prepared by Wood Environmental Management Ltd (WEML) on behalf of Ray Whelan Ltd as required by condition 11.6 and Schedule F of Waste Licence 158-1 issued by the Environmental Protection Agency on 23rd May 2003.

2. Reporting Period.

2.1 This Annual Environmental Report (AER) covers the period 1st January 2010 to 31st December 2010 inclusive.

3. Waste Activities Carried out at the Facility.

3.1 Ray Whelan Ltd operate an authorised waste skip hire, wheelie bin collection and recycling business from premises at Cappanaboe, Co Laois.

3.2 Waste Licence 158-1 issued by the EPA on 23rd May 2003 allows Ray Whelan Ltd to carry out the following waste activities at the facility, in accordance with the Waste Management Act, 1996;

Third Schedule of the Waste Management Act, 1996;

- 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 the bulking and transfer of waste for disposal off-site.

- 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 the bulking and transfer of waste for disposal off-site.

Fourth Schedule of the Waste Management Act, 1996;

- Class 2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):

This activity is limited to the segregation of cardboard, paper, wood, plastic and organic waste prior to recovery off-site.

- Class 3. Recycling or reclamation of metals and metal compounds:

This activity is limited to the segregation of steel and metals prior to recovery off-site.

- Class 4. Recycling or reclamation of other inorganic materials:

This activity is limited to the segregation of glass and construction and demolition waste prior to recovery off-site.

- Class 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:

This activity is limited to the storage of waste prior to recovery off-site.

4. Quantity and Composition of Wastes Recovered, Received and Disposed of During the Reporting Period and Each Previous Year.

4.1 Based on figures provided to WEML by Ray Whelan Ltd, Ray Whelan Ltd handled 33,004 tonnes of waste at the facility during the period 1st January – 31st December 2010. This represents a decrease of 1,893 tonnes compared to the quantity of waste handled at the facility during 2009 (see Table 1).

4.2 Of the 33,004 tonnes of waste handled at the facility in 2010, a total of 15,444 tonnes of waste were disposed of ie. approximately 47% and a total of 17,506 tonnes of waste were recovered/recycled ie. approximately 53 %.

Approximately 54 tonnes of waste (approx. 0.2%) remained on site at the end of 2010. Table 1 shows that these figures represent a significant increase in the recycling rates reported for 2010.

Table 1. Quantity of Waste Disposed of and Recycled by Ray Whelan Ltd 2004, 2005, 2006, 2007, 2008, 2009 and 2010.

Year	Total	Disposed	%	Recycled	%
2004	21,525	20,062	93.2	1,463	6.8
2005	26,292	24,588	93.5	1,704	6.5
2006	28,521	23,223	81.4	5,298	18.6
2007	35,167	27,203	77.3	7,964	22.7
2008	28,028	22,863	81.6	5,165	18.4
2009	34,897	28,582	81.9	6,315	18.1
2010	33,004	15,444	46.8	17,506	53.0

4.3 A breakdown of the waste quantities received, recovered and disposed of by Ray Whelan Ltd during 2010 are shown in Tables 2 & 3.

Table 2. Quantity of Waste Received & Disposed of by Ray Whelan Ltd (01/01/10 –31/12/10)

Waste Type	Origin of Waste	EWC Code	Quantity (tonnes)	Destination of Waste	Treatment of Waste
Household (mixed collection)	Carlow Kildare Kilkenny Laois Wicklow	200301	15,396	Rampere Landfill	Disposal
Household (mixed collection)	Carlow Kildare Kilkenny Laois Wicklow	200301	48	Portlaoise Landfill	Disposal
Total			15,444		

Table 3. Quantity of Waste Received & Recycled by Ray Whelan Ltd (01/01/10 –31/12/10)

Waste Type	Origin of Waste	EWC Code	Quantity (tonnes)	Destination of Waste	Treatment of Waste
Household (mixed collection)	Carlow Kildare Kilkenny Laois Wicklow	200301	11,506	Greyhound	Recycling
Mixed Dry Recyclables	Carlow Kildare Kilkenny Laois Wicklow	200301	2,031	Regen	Recycled
Mixed C&D	Carlow Kildare Kilkenny Laois Wicklow	170107	1,127	Rampere Landfill	Recycled
Cardboard	Carlow Kildare Kilkenny Laois Wicklow	200101	752	Greyhound	Recycled
Mixed Dry Recyclables	Carlow Kildare Kilkenny Laois Wicklow	200301	461	Greyhound	Recycled

**Table 3. Quantity of Waste Received & Recycled by Ray Whelan Ltd
(01/01/10 –31/12/10) continued....**

Waste Type	Origin of Waste	EWC Code	Quantity (tonnes)	Destination of Waste	Treatment of Waste
Mixed Dry Recyclables	Carlow Kildare Kilkenny Laois Wicklow	200301	407	Clearpoint	Recycled
Newspaper	Carlow Kildare Kilkenny Laois Wicklow	200101	352	ReGen	Recycled
Wood	Carlow Kildare Kilkenny Laois Wicklow	200138	303	Rampere Landfill	Recycled
Glass	Carlow Kildare Kilkenny Laois Wicklow	200102	269	Glassco	Recycled
Cardboard	Carlow Kildare Kilkenny Laois Wicklow		127	Regen	Recycled
Metal	Carlow Kildare Kilkenny Laois Wicklow	170407	46	Molloy Metals	Recycled
Glass (windscreens)	Carlow Kildare Kilkenny Laois Wicklow	160102	38	Glassco	Recycled
Household Food Waste	Carlow Kildare Kilkenny Laois Wicklow	200108	28	Waddock Composting	Recycled

Table 3. Quantity of Waste Received & Recycled by Ray Whelan Ltd (01/01/10 –31/12/10) continued....

Waste Type	Origin of Waste	EWC Code	Quantity (tonnes)	Destination of Waste	Treatment of Waste
Commercial Food Waste	Carlow Kildare Kilkenny Laois Wicklow	200108	28	Waddock Composting	Recycled
Tyres	Carlow Kildare Kilkenny Laois Wicklow	160130	19	Crumb Rubber	Recycled
Newspaper	Carlow Kildare Kilkenny Laois Wicklow	200101	12	Greyhound	Recycled
Total			17,506		

5. Summary Report of Emissions.

5.1 Waste licence 158-1 requires Ray Whelan Ltd to carry out the following site emissions monitoring.

Table 4. Site Monitoring Requirements.

Condition Ref	Monitoring Required	Nos Locations	Frequency
Schedule D2	Dust Monitoring	D1, D2	Three times a year. Twice during May - September
Schedule D3	Noise Monitoring	N1-N5, NSL1	Annually
Schedule D4	Surface Water Monitoring	SW1	Quarterly
Schedule D4	Waste Water Monitoring	WW1	Bi-Annually
Schedule D5	Ground Water Monitoring	GW1	Annually

5.2 A summary of the site emissions monitoring surveys for 2010 is presented below. Laboratory certificates are presented in the Site Monitoring Report 2010 which has been produced separately and forwarded to the Agency.

Dust Deposition Results.

5.3 WEML carried out dust deposition surveys at the facility between the periods March – April, June - July and August – September 2010.

5.4 Dust deposition monitoring was based on a modified version of the Bergerhoff method VDI 2119 ‘Measurement of dustfall using the Bergerhoff instrument (standard method)’. Dust results are presented below.

Table 5. Dust Deposition Results (March – April 2010).

Location	Suspended Solids mg/sample	Dust Deposition mg/m ² /day	Dust Deposition Limit (mg/m ³ /d)
D1 Site Entrance	10.5	6.91 mg/m ² /day	350 mg/m ³ /d
D2 Second Entrance	12.5	8.22 mg/m ² /day	350 mg/m ³ /d
D3 Rear site boundary	18	11.84 mg/m ² /day	350 mg/m ³ /d

5.5 The above dust deposition results are all in compliance with the licence limit of 350g/m²/day.

Table 6. Dust Deposition Results (June – July 2010).

Location	Suspended Solids mg/sample	Dust Deposition mg/m ² /day	Dust Deposition Limit (mg/m ³ /d)
D1 Site Entrance	39.6	26.93 mg/m ² /day	350 mg/m ³ /d
D2 Second Entrance	120	78.99 mg/m ² /day	350 mg/m ³ /d
D3 Rear site boundary	127	83.60 mg/m ² /day	350 mg/m ³ /d

5.6 The above dust deposition results are all in compliance with the licence limit of 350 mg/m²/day.

Table 8. Dust Deposition Results (August – September 2010).

Location	Suspended Solids mg/sample	Dust Deposition mg/m ² /day	Dust Deposition Limit (mg/m ³ /d)
D1 Site Entrance	130	78.03 mg/m ² /day	350 mg/m ³ /d
D2 Second Entrance	60	36.01 mg/m ² /day	350 mg/m ³ /d
D3 Rear site boundary	202.5	121.54 mg/m ² /day	350 mg/m ³ /d

5.7 The above dust deposition results are all in compliance with the licence limit of 350 mg/m²/day.

Noise Results.

- 5.8 WEML carried out a noise monitoring survey at the facility on 11th June 2010. Noise monitoring was carried out to the International Standard ISO 1996/1 “Acoustics – Description & measurement of environmental noise” using a calibrated Sound Level Meter.
- 5.9 Monitoring was carried out over a typical day. Weather conditions during sampling were generally dry and overcast with little wind. Ray Whelan Ltd do not operate the site at night-time, therefore noise monitoring was not carried out overnight.
- 5.10 During monitoring, there was typical activity taking place on site. The monitoring equipment was manned throughout the sampling period and comments/notes taken to assist the interpretation and assessment of results.
- 5.11 Sampling was carried out at the following five boundary locations;
- N1 Site entrance.
 - N2 Second site entrance.
 - N3 Rear corner site boundary (opposite second site entrance).
 - N4 Outside transfer station building.
 - NSL1 Outside closest house to the facility.
- 5.12 Noise monitoring results are summarised below.

Table 8. Summary of Site Boundary Noise Levels.

Location	Start Time	LAeq	Comments
N1	10:45	75.5	Site operational. Skips being loaded next to meter. Truck engine idling next to meter. Trucks visiting site.
N2	11:20	56.7	Site operational. Trucks visiting site. Birds singing.
N3	11:55	49.4	Site operational. Trucks visiting site. Birds singing.
N4	12:30	67.2	Site operational. Trucks visiting site. Compressor being used.

Table 9. Summary of Sensitive Locations Noise Levels.

Location	Start Time	LAeq	Comments
NSL1	13:10	63.3	Site operational. Passing traffic.

- 5.13 The above results show that during the survey, the noise levels recorded at the closest sensitive location (NSL1) were above the waste licence daytime noise limit of 55 dB(A) L_{Aeq} . However, the elevated noise levels were due to noise from passing traffic.
- 5.14 There are no complaints of noise from the residents at the closest sensitive receptor (NSL1) due to operation of the Ray Whelan Ltd facility. WEML therefore concludes that based on the above survey, noise levels from the Ray Whelan Ltd facility do not cause a significant noise nuisance at sensitive locations beyond the site boundary.

Surface Water Monitoring Results.

- 5.15 Waste licence 158-1 requires Ray Whelan Ltd to carry out quarterly surface water sampling and monitoring for the following analysis;

- pH
- Conductivity
- BOD
- Suspended Solids
- Ammonia
- Mineral Oils

- 5.16 All site yard run off water is diverted to the underground 'blind' waste water collection sump prior to collection and disposal off site. There is no point discharge of yard surface water from the site.
- 5.17 Quarterly water samples are taken from the underground wastewater holding tank and tested for a range of analyses as presented below.

Waste Water Monitoring Results.

- 5.18 Waste licence 158-1 requires Ray Whelan Ltd to carry out bi-annual waste water sampling and monitoring for the following analysis;

- pH
- BOD
- COD
- Suspended Solids
- Ammonia
- Mineral Oils
- Fats, Oils, Grease

5.19 As detailed above, the site drainage infrastructure diverts all site run off and waste water in to the waste water collection sump prior to collection and disposal off site.

5.20 Consequently WEML carried out quarterly sampling of the combined surface water and waste water in March, June, August & December 2010. The results of the combined surface water and waste water analyses are shown in Table 10 below.

Table 10. Summary of Combined Surface Water Waste & Water Analyses.

Parameter	Analysis Results			
	Q1 March 2010	Q2 June 2010	Q3 Aug 2010	Q4 Dec 2010
pH Units	8.17	7.91	8.04	7.87
BOD mg/l	310	98.9	61	189
COD mg/l	1,440	363	478	424
Suspended Solids mg/l	130	104	45	100
Ammonia mg/l	12	13.6	15.5	18.8
Mineral Oils µg/l	31,700	20,400	6,170	5,890
Fats, Oils & Grease mg/l	132	8.04	35.1	3.38

5.21 There are no waste water quality limits set down in waste licence 158-1. The contents of the waste water storage tank are tankered off site for disposal as required by condition 3.12 of the waste licence. The above data is useful when arranging sub-contractors to empty and dispose of the contents of the waste water sump when required.

Ground Water Monitoring Results.

5.22 Waste licence 158-1 requires Ray Whelan Ltd to carry out annual ground water sampling and monitoring for the following analysis;

- pH
- Conductivity
- Ammonia
- Mineral Oils

5.23 A groundwater sampling well was installed at the facility in early 2005. WEML sampled the groundwater on 11th June 2010. The results are presented below.

Table 11. Summary of Groundwater Sampling Results (2010).

Ref	pH units	Conductivity ms/cm @ 25°C	Ammonia mg/l	Mineral Oils µg/l
GW1	8.06	0.155 ms/cm	<0.2 mg/l	47.7 µg/l
EPA Limit	No limit Set	No limit Set	No limit Set	No limit Set
Compliance	Yes	Yes	Yes	Yes

5.24 There are no groundwater quality limits set down in waste licence 158-1. However the above data will be useful when comparing and monitoring future groundwater quality data at the site.

6. Summary of Monitoring Results & Location Plan Showing Monitoring Locations.

6.1 A discussion and interpretation of the 2010 site monitoring data is presented in Section 5 above. A site map showing the location of monitoring points is presented in Figure 1.

7. Resource & Energy Consumption Summary.

7.1 The main resource used by Ray Whelan Ltd is diesel for fueling the waste collection vehicles, site waste handling and processing equipment. The total quantity of road diesel used by Ray Whelan Ltd during 2010 was approximately 371,000 litres at a cost of around €376,000. This represents an increased usage of approximately 9% compared to 2009.

7.2 Electricity was connected to the site in November 2007. Site water (non potable) is provided by an onsite borehole.

7.3 A breakdown of the resources used by Ray Whelan Ltd in 2010 is shown in the following table.

Table 12. Summary of Resources & Energy Use (2009).

Resource/Fuel Type	Use	Quantity	Cost
Road Diesel	Diesel for Lorries	371,314 litres	€376,223.59
Green Diesel	Site Machinery/ Equipment	22,534 litres	€14,160.74
Welding Gas	Welding	58 cylinders	€4,631.29
Hydraulic Oil	Lorries	3690 litres	€5,989.50
Engine Oil	Lorries	1920 litres	€4,801.66
Transmission Oil	Lorries	340 litres	€627.00
Lubricants	Servicing Lorries	2,085 kgs	€2,091.89
Electricity	Site Power	14,180 units	€2,739.87
TOTAL			€411,265.54

8. Development/Infrastructure Works.

8.1 Condition 3 and Schedule B of Waste Licence 158-1 requires Ray Whelan Ltd to establish and install the following site infrastructure;

- Gates & palisade fencing
- Impermeable concrete surface
- Facility office
- Waste transfer building
- Surface water & waste water drainage network, storage tanks and associated infrastructure
- Domestic waste water treatment system
- Silt traps and interceptor
- Bunds
- Weighbridge
- Vehicle/skip cleaning facilities
- Dust/odour system
- Waste handling, processing, recycling/recovery infrastructure
- Other works specified by the Agency

8.2 All of the above infrastructure has been installed as summarised below.

Table 13. Summary of Progress on Installation of Site Infrastructure.

Item	Installation Date	Comments	Status
Waste water treatment system	March 2006	Installed	Completed
Vehicle/skip cleaning facilities	September 2006	Installed	Completed
Fencing & gates	January 2007	Installed	Completed
Emergency shut off valve	January 2007	Installed	Completed
Weighbridge	Feb 2006	Installed	Completed
Silt traps & oil separators	March 2006	Installed	Completed
Site Drainage	March 2006	Installed	Completed
Domestic waste water treatment system	Jan 2008	Installed	Completed
Concrete Site Surface	April 2006	Installed	Completed
Facility Office	July 2007	Installed	Completed

9. Schedule of Environmental Objectives for 2011.

9.1 Ray Whelan Ltd has developed a schedule of Environmental Objectives & Targets for the period 2011. This schedule is presented in Table 14 below.

Table 14. Register of Environmental Objectives & Targets (2011).

	OBJECTIVES	TARGETS
1	Assess and reduce where possible all dust emissions.	Not to exceed 350 mg/m ² /day in order to reduce the possibility of causing dust deposition nuisance beyond site boundary.
2	Assess and reduce where possible all site noise emissions.	Not to exceed 55 db(a) L _{Aeq} (30 minutes) during day time at noise sensitive locations in order to reduce the possibility of causing noise nuisance at noise sensitive locations beyond the site boundary.
3	Assess and improve where possible surface water and waste water emissions	Compliance with waste licence quality limits and to ensure that there are no surface water pollution incidents.
4	Assess and improve where possible groundwater quality	Compliance with waste licence quality limits and to ensure that there are no groundwater pollution incidents.
5	Increase waste recycling rates	Investigate/implement options to increase waste recycling, including brown bin collections/ organic waste recycling, onsite processing.
6	Ensure that nuisance condition do not arise on site or beyond the site boundary.	Compliance with condition 7 of waste licence 158-1
7	Install and maintain site infrastructure/Specified Engineering Works	Compliance with condition 3 and Schedule B of waste licence 158-1
8	Develop and implement a site environmental management system (EMS)	Compliance with condition 2.3 of waste licence 158-1
9	Ensure that all staff receive appropriate environmental training	Compliance with condition 2.3.2.4 of waste licence 158-1
10	Strive to maintain environmental improvements and legal obligations	To meet all legal and waste licence requirements.

10. Progress on Environmental Objectives in Previous AER (2010).

10.1 Ray Whelan Ltd established a register of Environmental Objectives & Targets for 2010 as reported in the 2009 AER and are similar to the above Environmental Objectives & Targets set for 2011.

10.2 Progress on meeting the 2010 Environmental Objectives & Targets as detailed in the 2009 AER are summarised in Table 15 below.

Table 15. Progress of 2010 Environmental Objectives & Targets.

	OBJECTIVES	TARGETS	PROGRESS
1	Assess and reduce where possible all dust emissions.	Not to exceed 350 mg/m ² /day in order to reduce the possibility of causing dust deposition nuisance beyond site boundary.	This target was achieved. Surveys show that dust emissions did not exceed 350 mg/m ² /day in 2010.
2	Assess and reduce where possible all site noise emissions.	Not to exceed 55 db(a) L _{Aeq} (30 minutes) during day time at noise sensitive locations in order to reduce the possibility of causing noise nuisance at noise sensitive locations beyond the site boundary.	Although noise levels in 2011 at the closest sensitive receptor were above the licence limits, there are no noise nuisance complaints associated with the site.
3	Assess and improve where possible surface water and waste water emissions	Compliance with waste licence quality limits and to ensure that there are no surface water pollution incidents.	There are no direct surface water discharges from the site. All site run off and waste water is diverted to the waste water sump prior to collection and disposal off site.
4	Assess and improve where possible groundwater quality	Compliance with waste licence quality limits and to ensure that there are no groundwater pollution incidents.	This target was achieved. Groundwater monitoring was carried out in 2010.
5	Ensure that nuisance condition do not arise on site or beyond the site boundary.	Compliance with condition 7 of waste licence 158-1	This target was achieved. A nuisance inspection procedure was established and implemented at the site in 2006. There were no recorded complaints about nuisance conditions at the site in 2010.

Table 15. Progress of 2010 Environmental Objectives & Targets (continued...)

	OBJECTIVES	TARGETS	PROGRESS
6	Install and maintain site infrastructure/ Specified Engineering Works	Compliance with condition 3 and Schedule B of waste licence 158-1	All specified engineering works were completed in 2006, 2007 and 2008.
7	Develop and implement a site environmental management system (EMS)	Compliance with condition 2.3 of waste licence 158-1	This target was achieved. A series of written site operating procedures were established and implemented at the site in 2007.
8	Ensure that all staff receive appropriate environmental training	Compliance with condition 2.3.2.4 of waste licence 158-1	This target was achieved. Relevant staff training was carried out in 2010.
9	Strive to maintain environmental improvements and legal obligations	To meet all legal and waste licence requirements.	There were a number of waste licence non-conformances identified by the EPA during 2010. Ray Whelan Ltd has taken the necessary action to address and rectify these non-conformances.

11. Written Site Procedures.

11.1 Ray Whelan Ltd has developed a register of written site procedures. The list of procedures is shown in Table 16 below.

Table 16. List of Written Site Operating Procedures.

Ref	Title
EOP 001	Waste Licence Conditions
EOP 002	Waste Acceptance
EOP 003	Waste Handling
EOP 004	Waste Quarantine & Storage
EOP 005	Site Fuel Storage
EOP 006	Fuel Tank Filling & Fuel Use
EOP 007	General Waste Disposal
EOP 008	Metal Waste Disposal
EOP 009	C&D Waste Disposal
EOP 010	Battery Recycling
EOP 011	Waste Oil Recycling

Table 16. List of Written Site Operating Procedures (continued).....

EOP 012	Flourescent Tube Recycling
EOP 013	Gas Bottle Recycling
EOP 014	Interceptor Sump Inspection & Cleaning
EOP 015	Dust Deposition Monitoring
EOP 016	Noise Monitoring
EOP 017	Nuisance Monitoring
EOP 018	Spillage Procedure
EOP 019	Emergency Response
EOP 020	Maintenance Programme
EOP 021	Non-conformances/Incidents

11.2 The above written procedures are kept on site at the facility and are available for inspection if required.

12. Tank, Drum, Pipeline & Bund Testing Report.

12.1 There were no tests of tanks, drums, pipelines and bunds carried out in 2010 and there are no results/data available.

13. Reported Incidents & Complaints Summary.

13.1 WEML is unaware of any reported or recorded incidents/complaints in relation to the operation of the facility during the reporting period. This section is not applicable.

14. Review of Nuisance Controls.

14.1 Ray Whelan Ltd has a written procedure (EOP 017) to monitor potential nuisance conditions at the facility in order to comply with conditions 7 and 8.8.1 of Waste Licence 158-1, including;

- vermin
- birds
- mud
- dust
- litter
- odours

14.2 At a minimum of weekly intervals (or sooner if required), Ray Whelan Ltd site staff carry out an inspection of the yard, access roads and surround area for potential nuisance conditions caused by any of the above issues.

14.3 Any potential nuisance conditions are addressed and rectified as soon as possible.

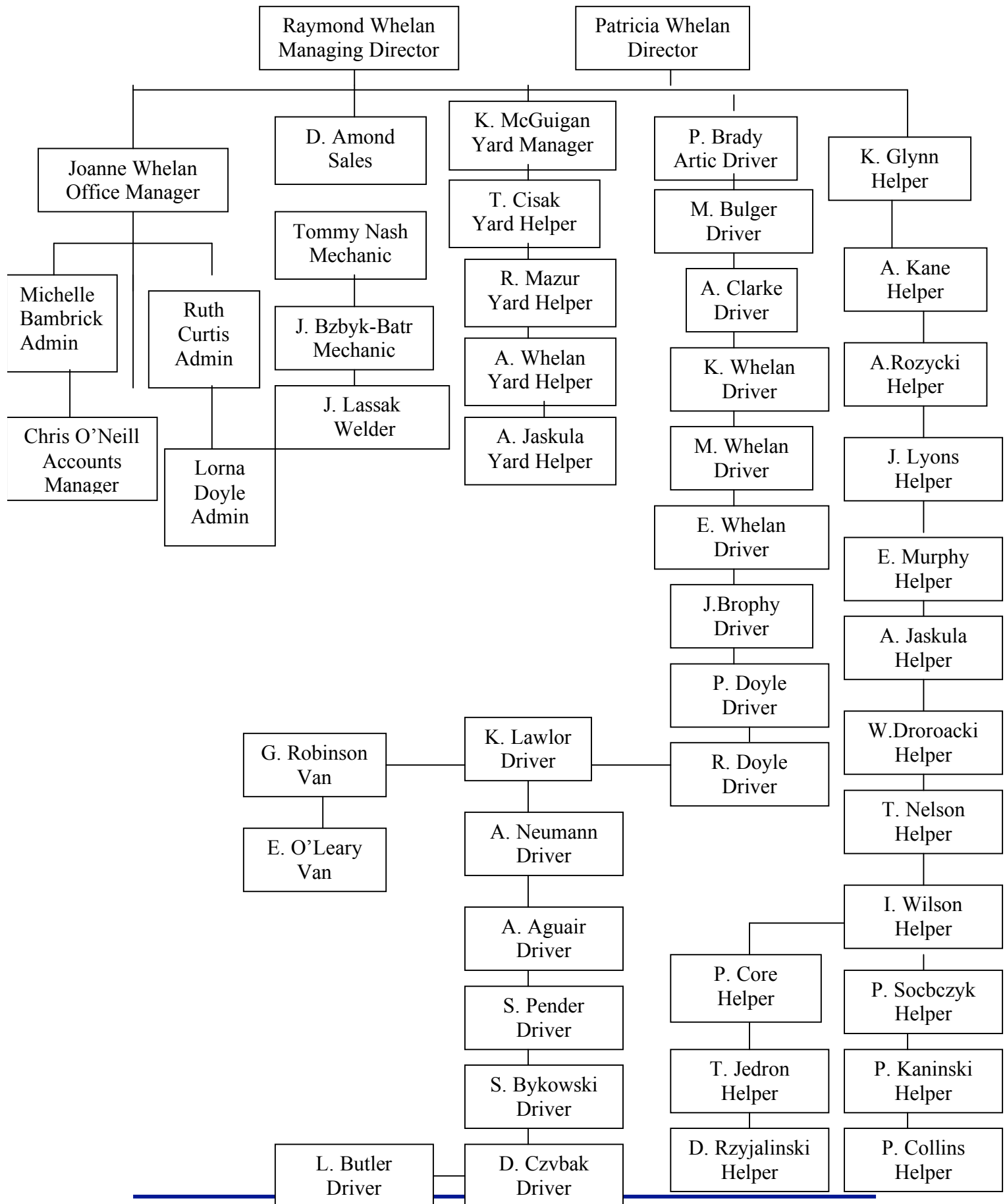
14.4 All weekly site inspections and actions taken are recorded on a weekly inspection sheet that is available at the site office for inspection if required.

15. Financial Provision, Management Structure & Public Information.

15.1 Ray Whelan Ltd management will make available all the necessary finances, resources and manpower required in order to ensure that the conditions of waste licence 158-1 are met. Furthermore, Ray Whelan Ltd management are committed to providing the necessary finances and resources in order to achieve the companys' stated Environmental Objectives and Targets.

15.2 Ray Whelan Ltd prepared and submitted to the Agency a comprehensive and fully costed environmental liabilities risk assessment (ELRA) in August 2005 as required by condition 12.2.1 of waste licence 158-1. The ELRA included a proposal for financial provision.

15.3 The management & staffing structure at Ray Whelan Ltd during 2010 is outlined below.



15.4 All information relating to the environmental performance of the facility, including emissions monitoring reports, waste licence conditions, incidents, complaints, operating procedures etc are available for public inspection at the site by prior arrangement. Furthermore, all reports, information and documents submitted by Ray Whelan Ltd to the Agency are available for public consultation and review.

16. Volume of Waste Water Produced and Volume Transported Off Site.

16.1 A total of approximately 299 m³ of waste water was collected from the sump during 2010. The sump was emptied by a third party contractor (Costello) and disposed of at Athy sewage treatment works.

Table 17. Quantity of Waste Water Disposed Off (2010).

Date	Quantity Removed	Removed by	Treatment
19/1/10	23 m ³	Costello	Athy STW
21/1/10	23 m ³	Costello	Athy STW
10/2/10	23 m ³	Costello	Athy STW
11/2/10	23 m ³	Costello	Athy STW
14/4/10	23 m ³	Costello	Athy STW
17/4/10	23 m ³	Costello	Athy STW
10/5/10	46 m ³	Costello	Athy STW
22/6/10	23 m ³	Costello	Athy STW
18/8/10	23 m ³	Costello	Athy STW
23/8/10	23 m ³	Costello	Athy STW
10/9/10	23 m ³	Costello	Athy STW
13/9/10	23 m ³	Costello	Athy STW
TOTAL	299 m³		

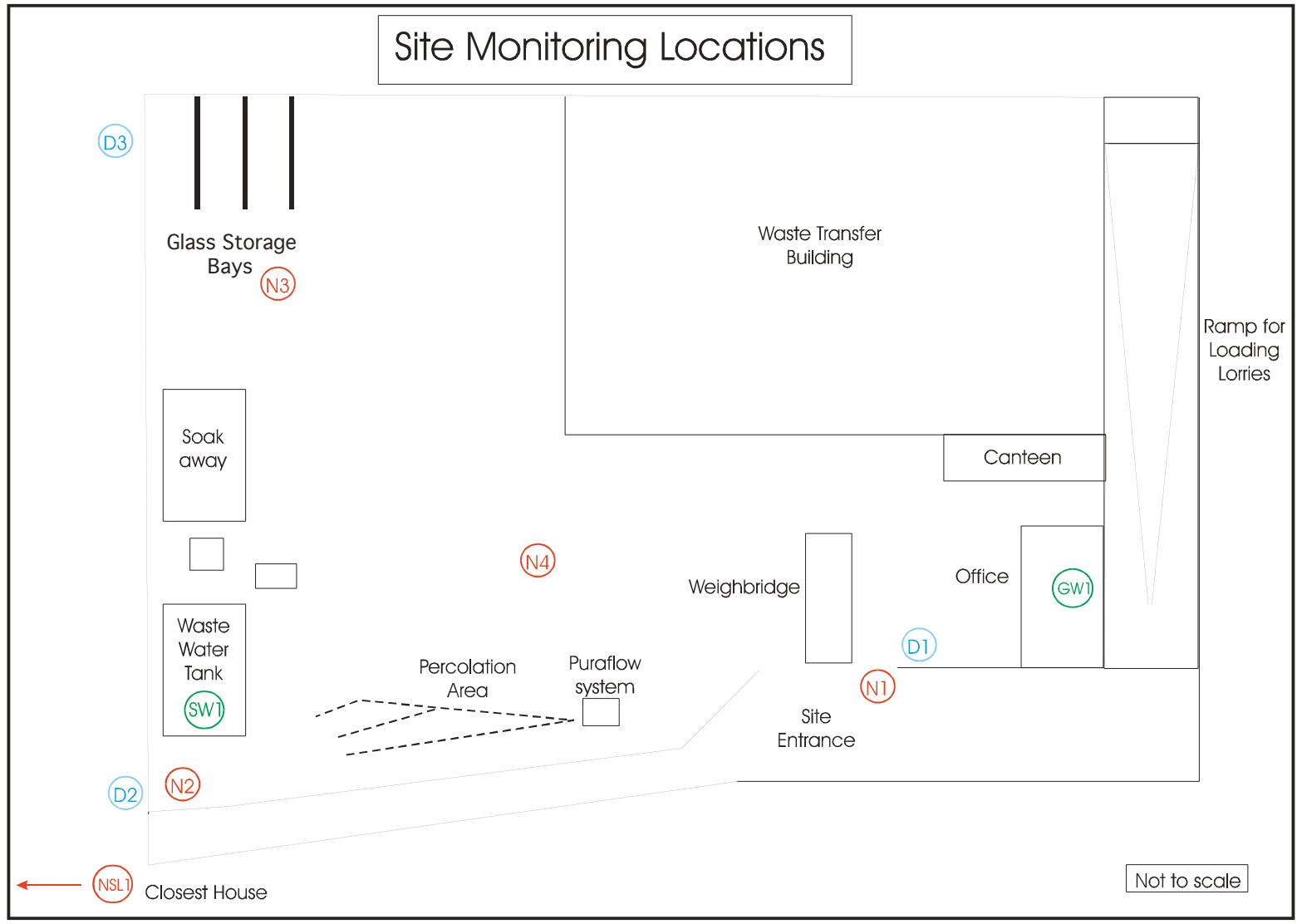
17. Any Other Items Specified by the Agency.

17.1 There were no other items specified by the Agency during 2010 that require incorporation into this AER. This section is not applicable.

FIGURE 1.

SITE MONITORING LOCATIONS.

Site Monitoring Locations



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.12

REFERENCE YEAR	2010
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1. FACILITY IDENTIFICATION

Parent Company Name	Ray Whelan Ltd
Facility Name	Ray Whelan Ltd
PRTR Identification Number	W0158
Licence Number	W0158-01

Waste or IPPC Classes of Activity

No.	class_name
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.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
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	Waste Services
Address 2	Cappanaboe
Address 3	Co Laois
Address 4	
Country	Ireland
Coordinates of Location	-6.96733 52.8735
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Raymond Whelan
AER Returns Contact Email Address	whelanwaste@eircom.net
AER Returns Contact Position	Owner
AER Returns Contact Telephone Number	059 9147678
AER Returns Contact Mobile Phone Number	
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	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: W0158 | Facility Name : Ray Whelan Ltd | Filename : W0158_2010.xls | Return Year : 2010 |

24/5/2011 08:54

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
RELEASERS 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			
RELEASERS 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					
RELEASERS TO AIR		Method Used			QUANTITY					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Site Boundary	Site Boundary	Site Boundary	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					Emission Point 1	Emission Point 2	Emission Point 3			
210	Dust	M	ALT	Lab Analysis	0.01	0.01	0.02	0.04	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: [Ray Whelan 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
			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# : W0158 | Facility Name : Ray Whelan Ltd | Filename : W0158_2010.xls | Return Year : 2010 |

24/5/2011 08:54

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# : W0158 | Facility Name : Ray Whelan Ltd | Filename : W0158_2010.xls | Return Year : 2011

24/5/2011 08:54

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				
238	Ammonia (as N)	M	ALT	Lab Analysis	0.0	0.0	0.0	0.0
303	BOD	M	ALT	Lab Analysis	49.25	49.25	0.0	0.0
306	COD	M	ALT	Lab Analysis	202.19	202.19	0.0	0.0
314	Fats, Oils and Greases	M	ALT	Lab Analysis	13.34	13.34	0.0	0.0
324	Mineral oils	M	ALT	Lab Analysis	4.79	4.79	0.0	0.0
240	Suspended Solids	M	ALT	Lab Analysis	28.33	28.33	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# : W0158 | Facility Name : Ray Whelan Ltd | Filename : W0158_2010.xls | Return Year : 2010 |

24/5/2011 08:54

SECTION A : PRTR POLLUTANTS

POLLUTANT		RELEASES TO LAND			Please enter all quantities in this section in KGs		
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
			Method Code	Designation or Description			
					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		RELEASES TO LAND			Please enter all quantities in this section in KGs		
Pollutant No.	Name	M/C/E	METHOD		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
			Method Code	Designation or Description			
					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# : W0158 | Facility Name : Ray Whelan Ltd | Filename : W0158_2010.xls | Return Year : 2010 |

24/5/2011 08:54

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non	Haz Waste : 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						
Within the Country	20 03 01	No	15396.0	mixed municipal waste	D1	M	Weighed	Onsite in Ireland	Rampere Landfill WL61/02,WL61/02		..Baltinglass Co Wicklow,,,,Ireland		
Within the Country	20 03 01	No	48.0	mixed municipal waste	D1	M	Weighed	Onsite in Ireland	Portlaoise Landfill,WL25/2		,,,Portlaoise,,Ireland		
Within the Country	20 03 01	No	11506.0	mixed municipal waste	R3	M	Weighed	Onsite in Ireland	Greyhound Recycling,WL95/2		. Crag Avenue Clondalkin Ind Estate Dublin 22,,,,,ireland		
Within the Country	20 03 01	No	2031.0	mixed municipal waste mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R3	M	Weighed	Onsite in Ireland	Regen,TBC		..Cambane Ind Estate Unit 7 Shepherds Drive Newry Co Down Ireland,,,,ireland		
Within the Country	17 01 07	No	1127.0	01 06	R5	M	Weighed	Onsite in Ireland	Rampere Landfill WL61/02,WL61/02		..Baltinglass Co Wicklow,,,,Ireland		
Within the Country	20 01 01	No	752.0	paper and cardboard	R3	M	Weighed	Onsite in Ireland	Greyhound Recycling,WL95/2		. Crag Avenue Clondalkin Ind Estate Dublin 22,,,,,ireland		
Within the Country	20 03 01	No	461.0	mixed municipal waste	R3	M	Weighed	Onsite in Ireland	Greyhound Recycling,WL95/2		. Crag Avenue Clondalkin Ind Estate Dublin 22,,,,,ireland		
Within the Country	20 03 01	No	407.0	mixed municipal waste	R3	M	Weighed	Onsite in Ireland	Clearpoint,WM/WP/12/05		.. Carric on Suir Co Tipperary,,,,Ireland		
Within the Country	20 01 01	No	352.0	paper and cardboard	R3	M	Weighed	Onsite in Ireland	Regen,TBC		..Cambane Ind Estate Unit 7 Shepherds Drive Newry Co Down Ireland,,,,ireland		
Within the Country	20 01 38	No	303.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Onsite in Ireland	Rampere Landfill WL61/02,WL61/02		..Baltinglass Co Wicklow,,,,Ireland		
Within the Country	20 01 02	No	269.0	glass	R5	M	Weighed	Onsite in Ireland	Glassco,WP 247/2006		.. Naas Co Kildare,,,,Ireland		
Within the Country	20 01 01	No	127.0	paper and cardboard	R3	M	Weighed	Onsite in Ireland	Regen,TBC		..Cambane Ind Estate Unit 7 Shepherds Drive Newry Co Down Ireland,,,,ireland		
Within the Country	17 04 07	No	46.0	mixed metals	R4	M	Weighed	Onsite in Ireland	Molloy Metals,TBC		.. Ferns Co Wexford,,,,Ireland		
Within the Country	16 01 20	No	38.0	glass	R5	M	Weighed	Onsite in Ireland	Glassco,WP 247/2006		.. Naas Co Kildare,,,,Ireland		
Within the Country	20 01 08	No	56.0	biodegradable kitchen and canteen waste	R3	M	Weighed	Onsite in Ireland	Waddock Composting,TBC		,,,,,Ireland		
Within the Country	16 01 03	No	19.0	end-of-life tyres	R3	M	Weighed	Onsite in Ireland	Crumb Rubber,TBC		,,,Louth,,Ireland		
Within the Country	20 01 01	No	12.0	paper and cardboard	R3	M	Weighed	Onsite in Ireland	Greyhound Recycling,WL95/2		. Crag Avenue Clondalkin Ind Estate Dublin 22,,,,,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](#)