



ANNUAL ENVIRONMENTAL REPORT 2010

License Register Number	W0219-01
License	Organic Gold (Marketing) Ltd.
Location	Wilkestown Navan Co. Meath
Report Year	2010

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1.0 Introduction

1.1 Background to Organic Gold

Organic Gold is an established waste facility located in Wilkinstown, Navan, Co. Meath. Organic Gold has been involved in waste activities at the site since 1986. There are two different waste activities at the site:

- 1) The production of high grade fertiliser in the fertiliser production shed; and
- 2) Composting of organic waste.

Organic Gold obtained a waste licence from the Agency in April 2007 to compost up to 25,000MT per annum. The existing premise has a capacity to store 5,000MT of organic material. There are ongoing plans to develop the new state of the art 25,000MT per annum compost. Organic Gold has been liaising with the Department of Agriculture and Food to obtain approval to accept animal by-products at the new facility.

Mr. John Finnegan is the experienced manager at Organic Gold. The facility currently employs 2 No. staff directly and is operational for approximately 48 weeks of the year. The current normal hours of operation are 8.00 to 18.00 Monday to Saturday. Production at the facility is intermittent depending on demand for products.

1.2 Reporting Period

This Annual Environmental Report (AER) is for the period between 01/01/2010 to the 31/12/2010.

1.3 Waste Activities

Organic Gold waste licence allows the following Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005:

Class	Description of Licensed Waste Activities
Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
Class 4.	Recycling or reclamation of other inorganic materials.
Class 11.	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
Class 12.	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.
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.

2.0 Waste Management Record

2.1 Waste Accepted

A total of 474 tonnes of waste was accepted for composting at the facility in 2010. The waste licence for the facility allows for a maximum tonnage of 25,000 tonnes per annum.

The Table 1 below provides a breakdown of quantity and waste types received in 2010.

EWC Code	Waste Description	MT 2010	MT 2009	MT 2008	MT 2007
02 01 06	Dewatered cattle slurry	152	165	443	321
02 07 01	Brewers grains	263	350	146	121
19 12 07	Timber C&D waste	59	0	121	1,015
TOTAL		474 MT	515 MT	710 MT	1,457 MT

Table 1 Waste accepted breakdown 2010

2.2 Waste taken off site

A breakdown of the waste taken off site in 2012 is provided below in Table 2.

EWC Code	Waste Description	Disposed By	Collected by	MT 2010
16 06 01	Batteries	Oristown Recycling	Oristown	0.1
20 01 40	Scrap Metal	Oristown Recycling	Oristown	19
15 01 02	Plastic waste	Shabra Group	Shabra	5.265
15 01 02	Plastic Tanks	Oristown Recycling	Oristown	2 Tanks

Table 2 Waste taken off site in 2010

3.0 Resource Consumption Summary

3.1 Energy

The main energy users on site are the plant onsite (generator, tractors and loading shovel), the blending machine and the packaging plant. The energy consumed at the facility is summarised in Table 3 below.

Energy Consumption	2010	2009	2008	2007
Electricity (kW)	6283	5766	7094	7333
Diesel (litres)	6300	7904	8562	9790

Table 3 Energy Consumption summary

Electricity consumption has increased by 8.9% while diesel consumption has decreased by 20.2% when one compares the 2010 and 2009 energy consumption figures.

3.2 Water Consumption

Water is provided by via an existing borehole onsite. Water usage at the site is only used for the staff canteen and toilets at the site. This water usage is not metered at present. No water is used during the production processes.

4.0 Environmental Management

4.1 Schedule of Environmental Objectives & Targets

Environmental Objectives & Targets 2010-2015

Objectives	Date	Targets
1. Develop the new modern compost facility	2010-2013	Have the new compost facility with 25,000 MT capacity operational in 2013.
2. Full waste licence compliance	2010- 2015	Consistent waste adherence by means of: <ul style="list-style-type: none"> • Ongoing environmental audits and monitoring. • Regular environmental team meetings. • Strive towards to continual environmental improvement.

4.2 Environmental Management Programme- Report 2010

Target	Action	Responsibility	Timeframe
1. Carry out a hydrological investigation	-Appoint an independent consultant -Agree scope of study with the Agency -Carry out the hydrological investigation -Implement any recommendations of the report	John Finnegan	By the end of 2010
<i>Progress 2011:</i>	Not completed.		
2. Well protection	Appoint contractor to put in place a lockable cap on the borehole on site	John Finnegan	By end of August 2010
<i>Progress 2011:</i>	Not completed.		
3. Waste management records	Ensure that monthly waste records are retained at the facility at all times	John Finnegan	By end of August 2010
<i>Progress 2011:</i>	Monthly waste records are kept on a spreadsheet.		
4. Noise monitoring	Carry out noise monitoring at the facility in 2010	John Finnegan	By end of August 2010
<i>Progress 2011:</i>	It was deemed not required given the operation currently active at the site.		
5. Zero Environmental Complaints	Continue open communications with neighbours.	John Finnegan	2010
<i>Progress 2011:</i>	No complaints received in 2010.		
6. Seek approval from the Agency for the proposed 25,000 MT facility	-Submit proposal with final plans and layout maps. -Construction will not commence without Agency approval.	John Finnegan	By the end of 2010
<i>Progress 2011:</i>	Not completed.		

4.3 Environmental Management Programme- Proposal 2011

The proposed EMP in 2011 is outlined below.

Target	Action	Responsibility	Timeframe
1. Carry out a hydrological investigation	-Appoint an independent consultant -Agree scope of study with the Agency -Carry out the hydrological investigation -Implement any recommendations of the report	John Finnegan	By the end of 2011
2. Well protection	Appoint contractor to put in place a lockable cap on the borehole on site	John Finnegan	By the end of 2011
3. Zero Environmental Complaints	Continue open communications with neighbours.	John Finnegan	2011
4. Seek approval from the Agency for the proposed 25,000 MT facility	-Submit proposal with final plans and layout maps. -Construction will not commence without Agency approval.	John Finnegan	By the end of 2011
5. Get steel tank in the main yard repaired	-The over ground tank in the yard was overhauled for continued use. -A certificate from the contactors is maintained on site.	John Finnegan	By the end of 2011

5.0 Other

5.1 Emissions from the facility and ambient monitoring

No emissions or ambient monitoring was undertaken in 2009 due to limited scale of activities on site at present. It is envisaged that once the new proposed facility is fully operational that full ambient and emission monitoring will be carried out in line with the following monitoring schedules outlined in Organic Gold's waste licence:

- Schedule C.1.2 (air),
- Schedule C.2.3 (storm water)
- Schedule C.5 (noise)
- Schedule C.6 (dust)
- Schedule C.8 (groundwater)

Some past monitoring data from the site EIS 2005 is provided below. It is considered that emission levels at the current facility would be much lower than those presented in the EIS as the compost facility was fully operational with open windrows in the yard at the time of the monitoring.

Boundary Location	Monitoring Period	Total Dust Deposition (mg/m ² /day)	TA Luft Guideline Value (mg/m ² /day)
DG1	21/04/04-11/05/04	222.9	350
DG2	21/04/04-11/05/04	49.9	
DG3	21/04/04-11/05/04	218.2	
DG4	21/04/04-11/05/04	328.8	

Table 4 RPS Dust Monitoring Results 2004 (Method- VDI 2119 sheet 2)

Location	Mesophilic bacteria (cfu/m ³)	Aspergillus Spp. (cfu/m ³)
B1	2.36 x10 ²	2.36x10 ³
B2	9.42x10 ¹	No growth
B3	2.36x10 ¹	No growth
B4	No growth	No growth
B5	3.5x10 ³	7.07x10 ³
B6	1.4x10 ²	2.36x10 ³
B7	1.9x10 ²	2.36x10 ³

Table 5 RPS Bioaersol monitoring 06/12/04

Parameter	Concentration (mg/l)	Interim Guideline Values (mg/l)
Boran	<0.1	1
Cadmium	0.0005	0.005
Chromium	<0.005	0.03
Copper	0.02	0.03
Lead	0.007	0.01
Magnesium	33	50
Mercury	<0.00005	0.001
Zinc	0.075	0.1
Calcium	229	200
Chloride	11.2	30
Coliforms (cfu/100ml)	228.2	0
Nitrate	0.62	25
Sulphate	195.6	200
Potassium	31	5
Sodium	39	150
Conductivity (ms/cm)	1.5	1
pH (pH units)	7.26	>6.5 & <9.5

Table 6 RPS groundwater of well in lower yard 12/08/04

Location	L _{Aeq}	L _{A10}	L _{A90}
Boundary N1 day	62	67	42
Boundary N2 day	63	68	35
Boundary N3 day	52	55	42
Boundary N4 day	64	64	43
NSL1 day	69	72	35
NSL1 night	67	68	39
NSL2 day	65	64	27
NSL2 night	71	74	47

Table 7 RPS Noise monitoring survey 21/04/04 & 11/05/04

5.2 Environmental Complaints

No third party environmental complaints were received in 2010 by Organic Gold.

5.3 Reported incident summary

No incidents occurred in 2010 at Organic Gold.

5.4 Tank and pipeline testing and inspection report

There has been no tank integrity assessments carried out at the facility since the site obtained the waste licence. Diesel fuel at the facility is stored in a self bunded tank. All oils and chemicals are stored on spill deck within an enclosed shed. It is envisaged that any bunds and pipelines will be integrity tested/assessed upon installation at the new compost facility.

5.5 Energy efficiency audit report summary

No energy audit has been undertaken at the facility since the site obtained the waste licence. It is envisaged that a comprehensive energy audit will be commissioned once the new compost facility is operational.

5.6 Odour Management Plan

An odour management plan for the existing facility is in place. Currently all composting takes place in a covered shed. There is a mist air system in place in the lower yard however the system is not currently utilised given to the fact that the lower yard is currently not utilised. It is envisaged that the existing odour management plan will be revised and updated once the new compost facility is operational.

5.7 Report on the assessment of the efficiency of use of raw materials in processes and the reduction of wastes generated

Currently all raw materials are fully utilised at the facility. No wastes were generated at the facility in 2010. It is envisaged that an assessment of the efficiency of use of raw materials in processes and the reduction of wastes generated will be completed once the new compost facility is operational.

5.8 Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharge

Currently water demand at the facility is minimal and is limited to the staff canteen and toilets. No water is currently used for used as part of the production. It is envisaged that once the new facility is operational that proposals will be developed to minimise water demand at the facility. There is currently no trade effluent being discharged from the facility.

5.9 Development/infrastructural works summary (completed in previous year or prepared for current year)

There was no development or infrastructural works carried out in 2010. It is envisaged that final plans and layout maps for the proposed facility will be forwarded to the Agency for approval once finalised.

5.10 Reports on financial provision made under this licence, management and staffing structure of the facility and a programme for public information

Financial Provision

It is envisaged that once the new facility is operational that the financial provisions will be reviewed.

Organisation Chart for Environmental Management

The Management Team at Organic Gold is detailed below-

- 1) General and Environmental Manager- Mr. John Finnegan
- 2) Plant Manager- Mr. Tony Finnegan

Programme for Public information

The facility has a notice board located at the entrance of the facility (in accordance with Condition 3.13). Furthermore, an EPA/Public record is open for inspection at the facility office.

5.11 Closure, Restoration and Aftercare Management Plan

No Closure, Restoration and Aftercare Management Plan (CRAMP) has been completed to date. It is envisaged that the CRAMP will be completed once the new facility is operational.



[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	Organic Gold (Marketing) Ltd.
Facility Name	Organic Gold (Marketing) Ltd.
PRTR Identification Number	W0219
Licence Number	W0219-01

Waste or IPPC Classes of Activity

No.	class name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for 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.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Wilkinstown
Address 2	Navan
Address 3	Co. Meath
Address 4	
	Meath
Country	Ireland
Coordinates of Location	-6.71586 53.7375
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	John Finnegan
AER Returns Contact Email Address	organicgold@eircom.net
AER Returns Contact Position	
AER Returns Contact Telephone Number	046 9054149
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
50.1	General
50.1	General

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

Is it applicable?	
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# : W0219 | Facility Name : Organic Gold (Marketing) Ltd. | Filename : W0219_2010.xls | Return Year : 2010 |

07/02/2012 16:40

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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 PRTR POLLUTANTS

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 C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

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

Landfill: Organic Gold (Marketing) 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# : W0219 | Facility Name : Organic Gold (Marketing) Ltd. | Filename : W0219_2010.xls | Return Year : 2010 |

07/02/2012 16:41

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		RELEASURES 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		RELEASURES 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		RELEASURES 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				
					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# : W0219 | Facility Name : Organic Gold (Marketing) Ltd. | Filename : W0219_2010.xls | Ret

07/02/2012 16:41

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0219 | Facility Name : Organic Gold (Marketing) Ltd. | Filename : W0219_2010.xls | Return Year : 2010 |

07/02/2012 16:42

Please enter all quantities on this sheet in Tonnes

5

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility	Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used							
Within the Country	16 06 01	Yes	0.12	lead batteries	R5	M	Weighed	Offsite in Ireland	Oristown Recycling,MH/100001001	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Irish Metal Refineries,WFP/09/0301,Unit 2,Duleek Business Park,Duleek ,Co. Meath,Ireland	Unit 2,Duleek Business Park,Duleek ,Co. Meath,Ireland
Within the Country	20 01 40	No	19.0	metals	R4	M	Weighed	Offsite in Ireland	Oristown Recycling,MH/100001001	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland
Within the Country	15 01 02	No	5.265	plastic packaging	R3	M	Weighed	Offsite in Ireland	Oristown Recycling,MH/100001001	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland
Within the Country	20 01 39	No	0.5	plastics	D15	E	Weighed	Offsite in Ireland	Oristown Recycling,MH/100001001	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,Ireland	Oristown ,Kells,Co. Meath,,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](#)