

# Annual Environmental Report

Jan 2016 – Dec 2016

# 2016



W0169-01

Cloonaugh  
Drumlish  
Co. Longford

Facility Information Summary	
AER Reporting Year	2016
Licence Register Number	W0169-01
Name of site	Mulleady's Ltd
Site Location	Cloonaugh Drumlish Co. Longford
NACE Code	3811, 3821
Class/Classes of Activity	Principal Class of Activity 3.13
National Grid Reference (6E, 6 N)	"-7.7835" 53.8063"
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year <b>and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</b>	Mulleadys Ltd is a waste recycling and transfer facility licenced to accept 95.000 tonnes of waste per annum. We operate three recycling sheds. Shed 1 deals with all mixed waste from wheelie bins, skips and roll-ons. Recycling and recoverable elements are hand picked off. Trommeling of the waste resumed in February 2014. The oversize (over 50mm) fraction was transferred to landfill or for incineration, the undersize which comprises of waste fines was transferred to a composting plant for stabilisation. Recycling shed 2 deals with Mixed Dry Recyclables coming from municipal collections. All mixed dry recyclables are unloaded to shed 2 floor from where transferred by inclined conveyor to the picking line. Shed 3 is home to the picking line where the segregation of mixed dry recyclables takes place before the material is sent to the various recycling outlets. Mulleadys accepted 34943.13 tonnes of material in reporting period 2016 of which 5% was sent to landfill, 36% sent for incineration, 26% sent for recycling and 33% for recovery. By continuous introduction of the brown bin we diverted 534 tonnes of organic waste from landfill.

**Declaration:**

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

	31/03/2017
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

**AIR-summary template** Lic No: W0169-01 Year 2016

Answer all questions and complete all tables where relevant

Additional information

1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Yes	During the reporting period three set of results were obtained for dust. Standard method VDI12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute) was utilized for analysis.
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**Periodic/Non-Continuous Monitoring**

2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No	
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3 Was all monitoring carried out in accordance with EPA guidance note AG2 [monitoring](#) and using the basic air monitoring checklist? [AGN2](#)

Yes	
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**Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
No 1 D1	Dust	26/5/16 - 27/5/16	No	350mg/m2/day	34.4	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.012556	
No 1 D3	Dust	26/5/16 - 27/5/16	No	350mg/m2/day	141	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.051465	
No 1 D4	Dust	26/5/16 - 27/5/16	No	350mg/m2/day	35	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.012775	
No.2 D1	Dust	27/07/16 - 25/08/16	No	350mg/m2/day	42.7	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.0155855	
No.2 D3	Dust	27/07/16 - 25/08/16	No	350mg/m2/day	93.1	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.0339815	

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No.2 D4	Dust	27/07/16 - 25/08/16	No	350mg/m2/day	406	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.14819
No. 3 D1	Dust	01/11/16 - 30/11/16	No	350mg/m2/day	43.1	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.0157315
No. 3 D3	Dust	01/11/16 - 30/11/16	No	350mg/m2/day	8.62	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.0031463
No. 3 D4	Dust	01/11/16 - 30/11/16	No	350mg/m2/day	10.9	mg/m2/day	yes	Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust	0.0039785

Note 1: Volumetric flow shall be included as a reportable parameter

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<b>Continuous Monitoring</b>		

4 Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	No	
5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No	
7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					
	SELECT			SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

**Table A3: Abatement system bypass reporting table** [Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link



		Additional Information	
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If <b>you do not have</b> licensed emissions you <b>only</b> need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes	In 2016 the monitoring of surface water was carried out in accordance with Schedule D4 of the waste Licence. Daily visual inspections are carried out on the surface water point SD-1. June 2nd 2011 Muleadys requested review of monitoring requirement of off-site surface water drain. The Agency reviewed the past 4 years monitoring data for SD-1, SW-1 and SW-2 and agreed to propose a reduction in monitoring locations under Condition 7.2 of the licence. Muleadys continued to monitor surface water discharges at the on-site chamber downstream of the interceptors on a quarterly basis as per the licence requirements and visual inspections on a daily basis.
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <b>only any evidence of contamination noted during visual inspections</b>	Yes	

**Table W1 Storm water monitoring**

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

\*trigger values may be agreed by the Agency outside of licence conditions

**Table W2 Visual inspections-Please only enter details where contamination was observed.**

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

**Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)**

3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	No	Additional information
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	Yes	<a href="#">External/Internal Lab Quality Assessment of results checklist</a>

**Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)**

Emission reference no:	Emission released to	Parameter/ Substance/Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
SD-1	Water	Suspended Solids	discrete	08/03/2016	SELECT	≤25mg/l	All values < ELV	3	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.001095	
SD-1	Water	Suspended Solids	discrete	08/06/2016	SELECT	≤25mg/l	All values < ELV	<2	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872		
SD-1	Water	Suspended Solids	discrete	04/08/2016	SELECT	≤25mg/l	All values < ELV	3.2	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.001168	
SD-1	Water	Suspended Solids	discrete	30/11/2016	SELECT	≤25mg/l	All values < ELV	<2	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872		
SD-1	Water	BOD	discrete	08/03/2016	SELECT	≤5mg/O <sub>2</sub>	All values < ELV	3	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.001095	
SD-1	Water	BOD	discrete	08/06/2016	SELECT	≤5mg/O <sub>2</sub>	All values < ELV	<1	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130		
SD-1	Water	BOD	discrete	04/08/2016	SELECT	≤5mg/O <sub>2</sub>	All values < ELV	3.36	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130	0.0012264	
SD-1	Water	BOD	discrete	30/11/2016	SELECT	≤5mg/O <sub>2</sub>	All values < ELV	<1	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series	Blue Book 130		
SD-1	Water	Ammoniacal Nitrogen	discrete	08/03/2016	SELECT	0.02MG/l N	All values < ELV	0.738	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser	B.S. (British Standard)	BS 2690: Part7: 1968 / BS 6068: Part2.11:1984	0.00026937	
SD-1	Water	Ammoniacal Nitrogen	discrete	08/06/2016	SELECT	0.02MG/l N	All values < ELV	0.42	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser	B.S. (British Standard)	BS 2690: Part7: 1968 / BS 6068: Part2.11:1984	0.0001533	
SD-1	Water	Ammoniacal Nitrogen	discrete	04/08/2016	SELECT	0.02MG/l N	All values < ELV	0.481	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser	B.S. (British Standard)	BS 2690: Part7: 1968 / BS 6068: Part2.11:1984	0.000175565	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														
					Lic No:	WD169-01	Year			2016				
SD-1	Water	Ammoniacal Nitrogen	discrete	30/11/2016	SELECT	0.02MG/l N	All values < ELV	0.487	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser	B.S. (British Standard)	BS 2690: Part7: 1968 / BS 6068: Part2.11:1984	0.000177755
SD-1	Water	COD	discrete	08/03/2016	SELECT		All values < ELV	17.3	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.0063145
SD-1	Water	COD	discrete	08/06/2016	SELECT		All values < ELV	14.8	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.005402
SD-1	Water	COD	discrete	04/08/2016	SELECT		All values < ELV	21.8	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.007957
SD-1	Water	COD	discrete	30/11/2016	SELECT		All values < ELV	11.8	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.004307
SD-1	Water	Conductivity	discrete	08/03/2016	SELECT	1000µS/cm	All values < ELV	0.413	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1970	0.000150745
SD-1	Water	Conductivity	discrete	08/06/2016	SELECT	1000µS/cm	All values < ELV	0.412	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1970	0.00015038
SD-1	Water	Conductivity	discrete	04/08/2016	SELECT	1000µS/cm	All values < ELV	0.353	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1970	0.000128845
SD-1	Water	Conductivity	discrete	30/11/2016	SELECT	1000µS/cm	All values < ELV	0.367	mS/cm	yes	Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter	B.S. (British Standard)	BS 2690: Part 9:1970	0.000133955
SD-1	Water	Mineral oils	discrete	08/03/2016	SELECT	5mg/l	All values < ELV	<1	µL	yes	Alcontrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SD-1	Water	Mineral oils	discrete	08/06/2016	SELECT	5mg/l	All values < ELV	<10	µL	yes	Alcontrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SD-1	Water	Mineral oils	discrete	04/08/2016	SELECT	5mg/l	All values < ELV	27.1	µL	yes	Alcontrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		0.0098915
SD-1	Water	Mineral oils	discrete	30/11/2016	SELECT	5mg/l	All values < ELV	<10	µL	yes	Alcontrol Laboratories, TM172, EPH in Waters	Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria		
SD-1	Water	pH	discrete	08/03/2016	SELECT	6.0 - 9.0	All values < ELV	7	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.002555
SD-1	Water	pH	discrete	08/06/2016	SELECT	6.0 - 9.0	All values < ELV	7.3	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.0026645
SD-1	Water	pH	discrete	04/08/2016	SELECT	6.0 - 9.0	All values < ELV	7.36	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.0026864



AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														
					Lic No:	WD169-01		Year	2016					
SD -1	Water	pH	discrete	30/11/2016	SELECT	6.0 - 9.0	All values < ELV	7.64	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4	0.0027886	
WWT -1	Wastewater/Sewer	Suspended Solids	discrete	08/03/2016		400mg/l	All values < ELV	98	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.03577
WWT -1	Wastewater/Sewer	Suspended Solids	discrete	26/05/2016		400mg/l	All values < ELV	59	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.021535
WWT -1	Wastewater/Sewer	Suspended Solids	discrete	04/08/2016		400mg/l	All values < ELV	40.5	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.0147825
WWT -1	Wastewater/Sewer	Suspended Solids	discrete	30/11/2016		400mg/l	All values < ELV	35	mg/L	yes	Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters	B.S. (British Standard)	BS EN 872	0.012775
WWT -1	Wastewater/Sewer	BOD	discrete	08/03/2016		400mg/l	All values < ELV	275	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series Blue Book 130		0.100375
WWT -1	Wastewater/Sewer	BOD	discrete	26/05/2016		400mg/l	All values < ELV	<50	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series Blue Book 130		#VALUE!
WWT -1	Wastewater/Sewer	BOD	discrete	04/08/2016		400mg/l	All values < ELV	<50	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series Blue Book 130		
WWT -1	Wastewater/Sewer	BOD	discrete	30/11/2016		400mg/l	All values < ELV	133	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids	UK SCA "Blue Book" series Blue Book 130		0.048545
WWT -1	Wastewater/Sewer	Ammoniacal Nitrogen (as N)	discrete	08/03/2016		100mg/l	All values < ELV	9.73	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser	B.S. (British Standard)	BS 2690: Part 7: 1968 / BS 6068: Part 2.11:1984	0.00355145

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)					Lic No:	WD169-01	Year	2016							
WWT -1	Wastewater/Sewer	Ammoniacal Nitrogen (as N)	discrete	26/05/2016		100mg/l	All values < ELV	8.79	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser	B.S. (British Standard)	BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984	0.00320835	
WWT -1	Wastewater/Sewer	Ammoniacal Nitrogen (as N)	discrete	04/08/2016		100mg/l	All values < ELV	NA	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser	B.S. (British Standard)	BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984		
WWT -1	Wastewater/Sewer	Ammoniacal Nitrogen (as N)	discrete	30/11/2016		100mg/l	All values < ELV	11.8	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser	B.S. (British Standard)	BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984	0.004307	
WWT -1	Wastewater/Sewer	COD	discrete	08/03/2016		1600mg/l	All values < ELV	365	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.133225	
WWT -1	Wastewater/Sewer	COD	discrete	26/05/2016		1600mg/l	All values < ELV	130	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.04745	
WWT -1	Wastewater/Sewer	COD	discrete	04/08/2016		1600mg/l	All values < ELV	167	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.060955	
WWT -1	Wastewater/Sewer	COD	discrete	30/11/2016		1600mg/l	All values < ELV	205	mg/L	yes	Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit	ISO	ISO 6060-1989	0.074825	
WWT -1	Wastewater/Sewer	Ortho-phosphate (as PO4)	discrete	08/03/2016		10mg/l	All values < ELV	NA	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2		
WWT -1	Wastewater/Sewer	Ortho-phosphate (as PO4)	discrete	26/05/2016		10mg/l	All values < ELV	0.536	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.00019564	
WWT -1	Wastewater/Sewer	Ortho-phosphate (as PO4)	discrete	04/08/2016		10mg/l	All values < ELV	NA	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2		

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														
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WWT -1	Wastewater/Sewer	Ortho-phosphate (as PO4)	discrete	30/11/2016		10mg/l	All values < ELV	0.058	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.0002117
WWT -1	Wastewater/Sewer	Sulphate	discrete	08/03/2016		1000mg/l	All values < ELV	44.7	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.0163155
WWT -1	Wastewater/Sewer	Sulphate	discrete	26/05/2016		1000mg/l	All values < ELV	25.2	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.009198
WWT -1	Wastewater/Sewer	Sulphate	discrete	04/08/2016		1000mg/l	All values < ELV	NA	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	
WWT -1	Wastewater/Sewer	Sulphate	discrete	30/11/2016		1000mg/l	All values < ELV	57.9	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2	0.0211335
WWT -1	Wastewater/Sewer	TPH/Oil & Greases	discrete	08/03/2016		100mg/l	All values < ELV	2.7	mg/L	yes	Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London		0.0009855
WWT -1	Wastewater/Sewer	TPH/Oil & Greases	discrete	26/05/2016		100mg/l	All values < ELV	1.78	mg/L	yes	Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London		0.0006497
WWT -1	Wastewater/Sewer	TPH/Oil & Greases	discrete	04/08/2016		100mg/l	All values < ELV	NA	mg/L	yes	Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London		
WWT -1	Wastewater/Sewer	TPH/Oil & Greases	discrete	30/11/2016		100mg/l	All values < ELV	3.19	mg/L	yes	Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy	The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London		0.00116435
WWT -1	Wastewater/Sewer	pH	discrete	08/03/2016		6.0 - 9.0	All values < ELV	6.87	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.00250755

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)					Lic No:	WD169-01	Year	2016							
WWT -1	Wastewater/Sewer	pH	discrete	26/05/2016		6.0 - 9.0	All values < ELV	7.06	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.0025769	
WWT -1	Wastewater/Sewer	pH	discrete	04/08/2016		6.0 - 9.0	All values < ELV	7.07	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.00258055	
WWT -1	Wastewater/Sewer	pH	discrete	30/11/2016		6.0 - 9.0	All values < ELV	7.37	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.00269005	
SG - 1	Water	Suspended Solids	discrete	26/05/2016		30mg/l	All values < ELV	<2	mg/L	yes	Alcontrol Laboratories TM022, Determination of total suspended solids in water	UK SCA "Blue Book" series	Blue Book 130		
SG - 1	Water	BOD	discrete	26/05/2016		20mg/l	All values < ELV	2.06	mg/L	yes	Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids in water	UK SCA "Blue Book" series	Blue Book 130	0.0007519	
SG - 1	Water	Ammoniacal Nitrogen (as N)	discrete	26/05/2016		5mg/l	All values < ELV	1.1	mg/L	yes	Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser	B.S. (British Standard)	BS 2690: Part7: 1968 / BS 6068: Part2.11:1984	0.0004015	
SG - 1	Water	Nitrates	discrete	26/05/2016			All values < ELV	<0.3	mg/L	yes	Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	EPA	Methods 325.1 & 325.2		
SG - 1	Water	Ph	discrete	26/05/2016		6.0 - 9.0	All values < ELV	7.31	pH units	yes	Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4		0.00266815	

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

**Continuous monitoring**

5 Does your site carry out continuous emissions to water/sewer monitoring?  Additional Information

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

**Table W4: Summary of average emissions -continuous monitoring**

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

**Table W5: Abatement system bypass reporting table**

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

\*Measures taken or proposed to reduce or limit bypass frequency

**Bund testing**

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to all **bunds which failed the integrity test** - all **bundling structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1 Please provide integrity testing frequency period
  - 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
  - 3 How many bunds are on site?
  - 4 How many of these bunds have been tested within the required test schedule?
  - 5 How many mobile bunds are on site?
  - 6 Are the mobile bunds included in the bund test schedule?
  - 7 How many of these mobile bunds have been tested within the required test schedule?
  - 8 How many sumps on site are included in the integrity test schedule?
  - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 10 Do all sumps and chambers have high level liquid alarms?
  - 11 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
  - 12 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
3 years	
Yes	
1	
1	
0	
N/A	
N/A	
N/A	
N/A	
Yes	
Yes	
N/A	

**Table B1: Summary details of bund /containment structure integrity test**

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Waste Water Collection Tank	reinforced concrete		Waste Water		35,000 Ltr	Structural assessment		01/03/2014	SELECT	Pass		SELECT	01/04/2017	
Surface Water Interceptor Tank	reinforced concrete		Surface Water		46000 Ltr	Structural assessment		01/03/2014	SELECT	Pass			01/04/2017	
Surface Water Silt Tank	reinforced concrete		Surface Water		23000 Ltr	Structural assessment		01/03/2014	SELECT	Pass			01/04/2017	
Bypass Surface Water	Glass Reinforced Polyester		Surface Water		27000 Ltr	Structural assessment		01/03/2014	SELECT	Pass			01/04/2017	
Sewage Treatment Plant	prefabricated		Foul Sewer Water			Structural assessment		01/03/2014	SELECT	Pass			01/04/2017	
Diesel Bund	prefabricated		Waste Water		66000 Ltr	Structural assessment		01/03/2014	SELECT	Pass			01/04/2017	
D20 Waste Water Recycling System - Wash Bay	prefabricated		Waste Water		2000 m3/h	Structural assessment		01/03/2014	SELECT	Pass		SELECT	01/04/2017	

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

- Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA [bundling and storage guidelines](#)
- 15 Guidance?
  - 16 Are channels/transfer systems to remote containment systems tested?
  - 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
Yes	Test completed March 2014
Yes	Test completed March 2015
Yes	

**Pipeline/underground structure testing**

Are you required by your licence to undertake integrity testing\* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all underground structures

- 1 and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**
  - 2 Please provide integrity testing frequency period
- \*Please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Yes	
3 years	

**Table B2: Summary details of pipeline/underground structures integrity test**

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Surface Water Underground Pipes	Storm	concrete	No	SELECT	Hydraulic	Yes	Pass			01/04/2017	
Waste Water Underground Pipes	Foul	concrete	No		Hydraulic	Yes	Pass			01/04/2017	

Please use commentary for additional details not answered by tables/ questions above

			Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER  Testing of Ground Water monitoring point GW-1 is carried out Bi Annually. 2016 results are in accordance with condition 7.1 of our waste licence. Accredited Laboratory Alcontrol Laborories completed testing. Analysis Method/Technique - "Standards Methods for the examination of Water and Wastewater"
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no		
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no	<a href="#">Groundwater monitoring template</a>	
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7 Please specify the proposed time frame for the remediation strategy	N/A		
8 Is there a licence condition to carry out/update ELRA for the site?	yes		
9 Has any type of risk assesment been carried out for the site?	yes		
10 Has a Conceptual Site Model been developed for the site?	yes		
11 Have potential receptors been identified on and off site?	yes		
12 Is there evidence that contamination is migrating offsite?	no		

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

++. maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

**Table 2: Downgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
26/05/2016	GW - 1	Ammoniacal Nitrogen as NH3		Monitored twice a year	<0.2		mg/l			
04/08/2016	GW - 1	Ammoniacal Nitrogen as NH3		Monitored twice a year	<0.2		mg/l			
26/05/2016	GW - 1	EPH Range >C10 - C40 (aq)		Monitored twice a year	<46		ug/l			SELECT
04/08/2016	GW - 1	EPH Range >C10 - C40 (aq)		Monitored twice a year	<46		ug/l			SELECT

<b>Groundwater/Soil monitoring template</b>	Lic No: W0169-01	Year: 2016
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\*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA. [Groundwater monitoring template](#)

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#).

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

<a href="#">Groundwater</a>	<a href="#">Drinking water</a>	<a href="#">Drinking water (public</a>	<a href="#">Interim Guideline</a>
<a href="#">Surface</a>	<a href="#">regulations</a>	<a href="#">(private supply)</a>	<a href="#">Values (IGV)</a>
<a href="#">water EQS</a>	<a href="#">GTV's</a>	<a href="#">standards</a>	<a href="#">supply) standards</a>



**Table 3: Soil results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

<b>Environmental Liabilities template</b>	Lic No:	W0169-01	Year	2016
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;
2	ELRA review status	Review required and not completed;
3	Amount of Financial Provision cover required as determined by the latest ELRA	€87,693.00
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;
5	Financial Provision for ELRA - amount of cover	€87,693.00
6	Financial Provision for ELRA - type	bond
7	Financial provision for ELRA expiry date	N/A
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA
9	Closure plan review status	Review required and not completed
10	Financial Provision for Closure status	Submitted and not agreed by EPA;
11	Financial Provision for Closure - amount of cover	€117,722
12	Financial Provision for Closure - type	bond
13	Financial provision for Closure expiry date	N/A

Commentary

Mulleady's Ltd submitted ELRA elaborated by Third Party Consultant in Feb 2014. EPA requested the review of ELRA and it was submitted to EPA in June 2015.

<b>Environmental Management Programme/Continuous Improvement Programme template</b>		Lic No:	W0169-01	Year	2016
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	Submitted to the Agency 28/02/2004
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

### Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
ISO 14001, ISO 9001 Standards Implementation	In order to improve environmental performance and provide assurance on environmental issues to external stakeholders - such as customers, the community and regulatory agencies	50	First meeting with choosed ISO company carried out in late 2016.	Managing Director, Environmental Manager	Improved Environmental Management Practices
Extension of existing Shed No.1, Shed No.2, Shed No. 3	To provide an extra roofed storage at the facility and divert loadings of outgoing material	10	Proposal layout drawings prepared by Turmec Engineering.	Managing Director	Installation of infrastructure
Tank, Bund Integrity Testing	The integrity of the existing tanks and bunds to be tested as required.	90	Independent consultant was contracted to carry out bund and tank integrity testing	Managing Director, Environmental Manager	Increased compliance with licence conditions
Signage update	Update to existing signage withing the facility (Monitoring points, Civic Amenity, Storage Bays)	100	Audit was carried out on the existing signage	Environmental Manager, Project Manager	Improved Environmental Management Practices

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	W0169-01	Year	2016
Waste reduction/Raw material usage efficiency	Energy Audit	70	Audit was carried out on the existing lightning in order to establish possible savings. Old Harrys Baler was removed and replaced by new IPS TRHE.852 baler with 50% less power demand.	Managing Director		Improved Environmental Management Practices	
Update on the Septic Tank system	Increase the quality of sewerage treatment	70	New Septic Tank system comprising of the Tank and pump was purchased. Proposal drawings for raised percolation area prepared.	Managing Director		Improved Environmental Management Practises	

## Noise monitoring summary report

Lic No: W0169-01      Year: 2016

2016

1 Was noise monitoring a licence requirement for the AER period?

If yes please fill in table N1 noise summary below

Yes

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

Enter date

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
31/08/2016	11.18	N1		65.6	53	66.8	69.1	No	SELECT	Recycling Plant in operation. Traffic in the distance. Reversing beepers.	Yes
31/08/2016	11.48	N1		62.7	55.7	63.8	61.4	No		Recycling Plant in operation. Traffic in the distance. Reversing beepers.	Yes
31/08/2016	12.18	N1		65.3	42.5	66.1	66.4	No		Recycling Plant in operation. Traffic in the distance. Reversing beepers.	Yes
31/08/2016	11.00	N2		50.3	47.5	60.5	75.3	No		Noise environment dominated by passing traffic along R198.	Yes
31/08/2016	11.30	N2		54.3	49.6	60.3	72.2	No		Noise environment dominated by passing traffic along R198.	Yes
31/08/2016	12.00	N2		55.9	43	60.9	72	No		Noise environment dominated by passing traffic along R198.	Yes
31/08/2016	14.00	N3		51.1	38.3	48.1	76.9	No		Noise environment dominated by passing traffic along R198.	Yes
31/08/2016	14.30	N3		48	36.8	44.9	72.6	No		Noise environment dominated by passing traffic along R198.	Yes
31/08/2016	15.00	N3		50.5	37.9	47.8	70.4	No		Noise environment dominated by passing traffic along R198.	Yes

\*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Additional information	
N/A	
No	
SELECT	

Table R1 Energy usage on site					
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	
Total Energy Used (MWHrs)	383300	383800	0.13%		
Total Energy Generated (MWHrs)	N/A	N/A	N/A	N/A	N/A
Total Renewable Energy Generated (MWHrs)	N/A	N/A	N/A	N/A	N/A
Electricity Consumption (MWHrs)	383300	383800	0.13%		
Fossil Fuels Consumption:	N/A	N/A	N/A	N/A	N/A
Heavy Fuel Oil (m3)	N/A	N/A	N/A	N/A	N/A
Light Fuel Oil (m3)	N/A	N/A	N/A	N/A	N/A
Natural gas (m3)	N/A	N/A	N/A	N/A	N/A
Coal/Solid fuel (metric tonnes)	N/A	N/A	N/A	N/A	N/A
Peat (metric tonnes)	N/A	N/A	N/A	N/A	N/A
Renewable Biomass	N/A	N/A	N/A	N/A	N/A
Renewable energy generated on site	N/A	N/A	N/A	N/A	N/A

\* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.  
 \*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	2913	2980	2.30%	N/A	N/A	N/A	N/A
Recycled water							
Total							

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.  
 \*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	0	0	0	0	0
Non-Hazardous (Tonnes)					

**Resource Usage/Energy efficiency summary** Lic No: W0169-01 Year 2016

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					



**Complaints and Incidents summary template** Lic No: W0169-01 Year 2016

Complaints	Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	Yes <input type="checkbox"/>

Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
05/01/2016	Odour		Complainant texted to MD that smell is bad.	Loading of organic fines caused smell emitting to neighbouring dwelling. Monitoring was carried out at the time of loading and smell lasted for 20 min. Odour monitoring was carried out later in the day at 12.30 and no odour was detected. All odour depression systems were on at all times.	Complete	05/01/2016	
15/03/2016	Odour		Same complainant rang the office and complained about bad smell emitting from our Facility towards his house.	Bad smell was due to organic fines being loaded. 2 loads of fines were loaded on that day. During both loadings odour monitoring was carried out. Loading of fines was stopped due to wind direction and strenght of the wind emitting the odour in the direction of the compolainant house. Complainant was notified.	Complete	15/03/2016	
16/03/2016	Odour		Same complainant rang the office and complained about bad smell emitting from our Facility towards his house.	Bad smell was due to organic fines being loaded. No Odour was detected on site after fines were loaded. Complainant was notified.	Complete	16/03/2016	
09/04/2016	Odour		Saturday 16:15 same complainant texted to Mulleadys MD that smell is bad.	MD drove straight to complainant house where no odor was detected. He also went to the Facility which was closed at that time and could not detect any odour. Letter sent to the complainant.	Complete	09/04/2016	
13/04/2016	Odour		Text message from same complainant at 6:45 asking why is there a smell now.	Facility was not open at that time. Monitoring was performed at two occassions at 8 am and at 9 am no odour was detected. Letter sent to the complainant.	Complete	13/04/2016	



<b>WASTE SUMMARY</b>	Lic No:	W0169-01	Year	2016
<b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b>		<a href="#">PRTR facility login</a>	dropdown list click to see options	

**SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES**

Were any wastes **accepted onto** your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

Additional Information	
Yes	
No	
No	

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

**Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWG code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWG code <a href="#">European Waste Catalogue EWG codes</a>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed residual waste from household and commercial collections	19754.35	17859.89	11%	Increased intake from 3rd party collectors.	N/A	D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12		
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Dry Recyclables from household and commercial collections	7787.21	7700.23	1%		38%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	20 01 08	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Food waste from households and commercial collection	484.03	431.83	12%	Increased number of householders and businesses with brown bins.	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Street Cleaning Residues	232.43	97.38	139%	Increase in the amount of street cleaning residues entering the facility	0%	D15-Storage pending any of the operations numbered D1 to D14		
	20 03 07	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky waste coming from skips	2293.34	2281.83	1%		0%	D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12		
	15 01 01	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Cardboard	554.02	425.57	30%	Increased amount of cardboard coming in from our Mullingar facility.	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	15 01 02	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Plastic packaging from municipal sources	269.36	316.41	-15%	Decreased amount of sorted packaging from commercial customers.	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	15 01 04	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Metal Packaging, Al Cans	1201.16	1653.81	-27%	Amount of Al cans depends on Wilton waste demand for re-baling of Al cans. Demand in 2016 was less than in 2015.	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	15 01 07	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Glass packaging (bottle banks, municipal collection, Civic Amenity).	985.73	1271.2	-22%	Mulleadys contact with Glassdon for collecting Glass banks in County Roscommon finished in Sept 2016.	100%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	16 01 03	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Car and tractor tyres	33.92	124.58	-73%	Limited acceptance of tyres at the Agency's request.	0%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C&D waste coming from construction sites	56.86	50.26	13%	2014 saw a larger tonnage in Mixed C&D due to construction work completed at Mulleady's Ltd Mullingar site W0197-02	0%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	10 01 01	10- WASTES FROM THERMAL PROCESSES	Gravel type bottom ash coming from industrial sources	875	739.84	18%	Increase in Bottom Ash taken from Masonite Ireland.	0%	D15-Storage pending any of the operations numbered D1 to D14		



**WASTE SUMMARY** Lic No: W0169-01 Year 2016

**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year *	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
---	---	---	---	---	--	---	---	----------

\* please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
--	-------------------------------------	-------------------------------------	-------------------------------------	--	----------------------------	------------------------------------	----------

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

**Table 7 Landfill Gas-Landfill only**

Gas Captured& Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
--	----------------------------	----------------------------------	---	----------

SELECT



[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

<b>REFERENCE YEAR</b>	2016
-----------------------	------

## 1. FACILITY IDENTIFICATION

Parent Company Name	Mulleady's Limited
Facility Name	Mulleady's Limited (Drumlish)
PRTR Identification Number	W0169
Licence Number	W0169-01

### Classes of Activity

No.	class name
-	Refer to PRTR class activities below

Address 1	Cloonagh
Address 2	Drumlish
Address 3	
Address 4	
	Longford
Country	Ireland
Coordinates of Location	-7.783576413 53.8062771
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Ludmila Gabrisova
<b>AER Returns Contact Email Address</b>	Lu@mulleadys.com
<b>AER Returns Contact Position</b>	Environmental Manager
<b>AER Returns Contact Telephone Number</b>	043 3324128
<b>AER Returns Contact Mobile Phone Number</b>	0851783068
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	78
<b>User Feedback/Comments</b>	2016 Results for Total Phosphorus and Total nitrogen in Waste Water were higher then results for 2015. Results were influenced by the number of samples taken. Results are below EPA Licence Emission Limit Values.
<b>Web Address</b>	www.mulleadys.com

## 2. PRTR CLASS ACTIVITIES

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

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

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

## 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)?	Yes
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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#: W0169 | Facility Name : Muleady's Limited (Drumlish) | Filename : W0169\_2016.xls | Return Year : 2016 |

03/04/2017 12:45

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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			Please enter all quantities in this section in KGs			
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			Please enter all quantities in this section in KGs			
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:	Muleady's Limited (Drumlish)				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

[ PRTR# : W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169\_2016\_2.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 Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
12	Total nitrogen	C	OTH	Calculated from test results for Ammoniacal Nitrogen (4 test results for 2016 reporting period), annual rainfall data for Mullingar station and facility operating area.		18.75	18.75	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 Code	Method Used 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		RELEASERS TO WATERS			Please enter all quantities in this section in KGs				
Pollutant No.	Name	M/C/E	Method Code	Method Used 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#: W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169\_2016.xls | Retu 03/04/2017 12:49

**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	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
13	Total phosphorus	C	OTH	Calculated from test results for Ortho Phosphates as PO4 (2 set of results for 2016 reporting period) and from volume of waste water collected in 2016	0.823	0.823	0.0	0.0
12	<b>Total nitrogen</b>	C	OTH	Calculated from test results for Ammoniacal Nitrogen (3 set of results for 2016 reporting period) and from volume of waste water collected in 2016.	2.79	2.79	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	Method Used 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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR#: W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169\_2016.xls | Return Year : 2016 |

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**SECTION A : PRTR POLLUTANTS**

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASERS TO LAND		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
					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 USED			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# : W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169\_2016.xls | Return Year : 2016 |

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Please enter all quantities on this sheet in Tonnes

3

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 : 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)
						M/C/E	Method Used		Non	Non		
Within the Country	08 01 14	No	148.62	sludges from paint or varnish other than those mentioned in 08 01 13	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord Na Mona,W201-02	Killnagh Upper,Carbury,..Co. Kildare,Ireland		
Within the Country	10 01 01	No	648.76	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord Na Mona,W201-02	Killnagh Upper,Carbury,..Co. Kildare,Ireland		
Within the Country	15 01 01	No	404.04	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Irish Packaging and Recycling,WPR021/2	Beauparc Business Park,Navan,..Co. Meath,Ireland		
To Other Countries	15 01 01	No	2217.7	paper and cardboard packaging	R3	M	Weighed	Abroad	Peute Papier Recycling,IRE/G006/12	LA,Dortrecht,A528041436,N etherlands		
To Other Countries	15 01 01	No	1121.28	paper and cardboard packaging	R3	M	Weighed	Abroad	Agnail Ltd,IRE/AG/117/12	Unit 9 Rossfield,50 Rosemount Business Park,Ballycoolin,Dublin 11,Ireland		
To Other Countries	15 01 04	No	44.24	metallic packaging	R4	M	Weighed	Abroad	Tandom Metallurgical Group Ltd,IRE/G237/15	Randor Park Industrial Estate,Congleton,Cheshire,C W124XE,United Kingdom		
To Other Countries	15 01 04	No	304.28	metallic packaging	R4	M	Weighed	Abroad	Wilton Waste Recycling Limited,IRE/AG142/17	Ballyjamesduff,..Co. Cavan,Ireland		
To Other Countries	15 01 04	No	1272.24	metallic packaging	R4	M	Weighed	Abroad	UN Global Trading Ltd,IRE/AG206/16	Lakeside House,1 Furzeground Way,Stockley Park Uxbridge,UB11 1BD,Ireland		
To Other Countries	15 01 07	No	1065.24	glass packaging	R5	M	Weighed	Abroad	Glassdon,LN/08/103	52 Creagh Road,Toomebridge,..Co. Antrim,United Kingdom		
Within the Country	16 01 03	No	48.56	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Midland Scrap Metal Co. Ltd,WFP-T-16-0001-01	Annagh,Birr,..Co. Offaly,Ireland		
To Other Countries	16 01 03	No	127.18	end-of-life tyres	R5	M	Weighed	Abroad	John Sloan Tyre Shred Export,IRE/AG312/18	33 Manydown Close,..Dundalk,Co. Louth,Ireland		
Within the Country	16 06 01	Yes	2.88	lead batteries	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,Waste Permit:06/30	Ballyjamesduff,..Co. Cavan,Ireland	Wilton Waste,wfp-cn-10-0005-01,Kiffagh,Crosserlough,Ballyjamesduff,Co. Cavan,Ireland	
Within the Country	16 06 04	No	0.54	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	KMK Metals Recycling Ltd,W0113-03	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland		
Within the Country	17 04 01	No	0.5	copper, bronze, brass	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,Waste Permit:06/30	Ballyjamesduff,..Co. Cavan,Ireland		
Within the Country	19 12 12	No	1523.69	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R1	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,Waste Permit:06/30	Ballyjamesduff,..Co. Cavan,Ireland		
Within the Country	19 12 12	No	9659.58	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D10	M	Weighed	Offsite in Ireland	Indaver Ireland,W0167-02	Carranstown,Duleek,..CoMeath,Ireland		
Within the Country	19 12 12	No	7198.4	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich Environmental Ltd,08/0004/01	Marymount,Castleknock Rd,Castleknock,Dublin 15,Ireland		
Within the Country	19 12 12	No	305.5	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord Na Mona,W201-02	Killnagh Upper,Carbury,..Co. Kildare,Ireland		
Within the Country	17 04 11	No	7.68	cables other than those mentioned in 17 04 10	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling,Waste Permit:06/30	Ballyjamesduff,..Co. Cavan,Ireland		

Within the Country	19 12 12	No	1578.75 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord Na Mona,W201-02	Killnagh Upper,Carbury,..Co. Kildare,Ireland		
Within the Country	17 02 02	No	17.42 glass	R5	M	Weighed	Offsite in Ireland	Gannon Eco Limited,WFP-WM-2009-0007-01	Quarriers,Ballinagore,WestMeath,..Ireland		
Within the Country	20 01 08	No	532.52 biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Michael Dolan,WFP--WM-2010-0005-01	Johnstown,Slanemore,..Mullingar,Ireland		
Within the Country	20 01 11	No	4.46 textiles	R12	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR-014	Glen Abbey Complex,Belgrad Road,Tallagh,Dublin 24,Ireland		
Within the Country	20 01 21	Yes	0.56 fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals Recycling Ltd,W0113-03	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offally,Ireland	KMK Metals Recycling Ltd,W0113-03,Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland
Within the Country	20 01 36	No	148.36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Recycling Ltd,EPA Waste Licence: W0113-03	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland		
Within the Country	20 01 38	No	407.88 wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	OCR Waste Management Ltd,WFP-RN-10-0001-01	Office 2 Roxborough,..Co. Roscommon,Ireland		
To Other Countries	20 01 39	No	106.54 plastics	R3	M	Weighed	Abroad	Evolve Polymers Ltd,IRE/G009/17	Park,Hemswell,Lincolnshire, DN21 5TU,Ireland		
Within the Country	20 01 39	No	82.66 plastics	R3	M	Weighed	Offsite in Ireland	Condron Concrete Works,WFP-OY-15-0198-01	Ardeen Road,..Tullamore,Co. Offaly,Ireland		
To Other Countries	20 01 39	No	26.38 plastics	R3	M	Weighed	Abroad	Boost Recycling Ltd,IRE/G082/12	Road,Burwell,Cambridge,CB250AN,United Kingdom		
To Other Countries	20 01 39	No	527.42 plastics	R3	M	Weighed	Abroad	WRC Recycling Total Waste Solution,WRC Recycling Floor	St. Johnstone,..Renfrewshire,..United Kingdom		
To Other Countries	20 01 39	No	26.1 plastics	R3	M	Weighed	Abroad	Asia Global Trade Ltd,IRE/G045/15	157 Highlever Road,..London,W10 6PH,United Kingdom		
To Other Countries	20 01 39	No	170.58 plastics	R3	M	Weighed	Abroad	Newport CH International LLC Ltd,IRE/AG288/17	1st Floor,.3 More London Riverside,London,SE1 2RE,United Kingdom		
To Other Countries	20 01 39	No	21.0 plastics	R3	M	Weighed	Abroad	WERS WASTE Ltd,CP608	Tuam Business Park,Weir Road,Tuam,Co. Galway,Ireland		
To Other Countries	20 01 39	No	65.82 plastics	R3	M	Weighed	Abroad	EcoPlastics Recycling Limited ,IRE/G009/15	Wilton Waste Recycling,Waste Permit:06/30	..Hemswell England ,DN21 5TU,United Kingdom	
Within the Country	20 01 40	No	354.46 metals	R4	M	Weighed	Offsite in Ireland		Ballyjamesduff,..Co. Cavan,Ireland		
Within the Country	20 03 01	No	3107.1 mixed municipal waste	D10	M	Weighed	Offsite in Ireland	Indaver Ireland,W0167-02	Carranstown,Duleek,..CoMeath,Ireland		
Within the Country	20 03 01	No	350.2 mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord Na Mona,W201-02	Killnagh Upper,Carbury,..Co. Kildare,Ireland		
Within the Country	20 03 01	No	294.98 mixed dry recyclables	R13	M	Weighed	Offsite in Ireland	Nurendale Limited ,W0039-02	Ballymount Cross,Tallaght,Dublin 24,..Ireland		
Within the Country	08 01 14	No	28.72 sludges from paint or varnish other than those mentioned in 08 01 13	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill Limited,W146-02	Knockharley,..Navan,..Ireland		
Within the Country	10 01 01	No	138.51 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill Limited,W146-02	Knockharley,..Navan,..Ireland		
To Other Countries	15 01 01	No	421.36 paper and cardboard packaging	R3	M	Weighed	Abroad	Recycling Uk Limited,IRE/G069/17	Unit11 Alvaston Business Park,Middlewich Road,Nantwich,Cw5 6PF,United Kingdom		
To Other Countries	20 01 39	No	250.88 plastics	R3	M	Weighed	Abroad	Leinster Environmentals Limited,IRE/AG296/15	Clermont Park,Haggarstown,Dundalk, Co. Louth,Ireland		
To Other Countries	20 01 39	No	223.0 plastics	R3	M	Weighed	Abroad	Paul Martin McDaid T/A Solutions,IRE/G443/17	Ard Na Grena,65 Makenny Road,Ballinamallard,Co. Fermanagh,Ireland		

To Other Countries	02 01 04	No	26.36	waste plastics (except packaging)	R3	M	<a href="#">Weighed</a>	Abroad	Agnail Ltd,IRE/AG/117/12	Unit 9 Rosfield,50 Rosemount Business Park,Ballycoolin,Dublin 11,Ireland
		<small>* Select a row</small>	35012.93							

[Link to previous years waste data](#)

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

[Link to Waste Guidance](#)