

**Facility Information Summary**

AER Reporting Year	2018
Licence Register Number	W0196-01
Name of site	MacAnulty Specialist Underground Services Limited
Site Location	John F Kennedy Road, Naas Road, Dublin 12
NACE Code	3821, 3822
Class/Classes of Activity	3.7, 3.11, 3.12, 3.13, 4.13, 4.3, 4.4, 4.6, 4.8
National Grid Reference (6E, 6 N)	53.3279, 6.35314

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 **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.**

**Site Performance:** The company continues to demonstrate its commitment towards HSE management standards - the site maintains ISO14001 and OHSAS 18001. This ensures a standard approach is taking to managing activities from an environmental and safety aspect.  
 There were no issues raised during the reporting period regarding maintenance to the standard.  
**Infrastructure / EMP progress:** There has been no changes in infrastructure on the site.  
**Environmental Performance:** The site did not receive any non compliances in 2018 and was compliant with the licence.

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**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.

Signature	Richard Kennedy	Date	29/03/2019
Group/Facility manager			
(or nominated, suitably qualified and experienced deputy)			

**AIR-summary template** Lic No: W0196-01 Year 2018

Answer all questions and complete all tables where relevant

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

No	Additional information
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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

SELECT	
--------	--

3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

SELECT	
--------	--

**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
	SELECT			SELECT		SELECT	SELECT	SELECT		
	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

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<b>AIR-summary template</b>	Lic No: W0196-01	Year: 2018
<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)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

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

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	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					

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

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**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0196-01 Year 2018

<p>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. <b>If 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</p>	Additional information
Yes	
<p>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></p>	
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
SW1	onsite	N/A	pH	17/05/2018	N/A	No pH value shall deviate from the specified range.	7.72	SELECT	yes	Quarterly Sample Highest Value of the Year Listed Here
SW1	onsite	N/A	BOD	17/05/2018	N/A	N/A	3.04	mg/L	yes	Quarterly Sample Highest Value of the Year Listed Here
SW1	onsite	N/A	COD	17/05/2018	N/A	N/A	34.3	mg/L	yes	Quarterly Sample Highest Value of the Year Listed Here
SW1	onsite	N/A	Suspended Solids	07/12/2018	N/A	N/A	19.6	mg/L	yes	Quarterly Sample Highest Value of the Year Listed Here
Sw1	onsite	N/A	Mineral oils	07/12/2018	5000	All values < ELV	453	µg/L	yes	Quarterly Sample Highest Value of the Year Listed Here

\*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)**

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	Additional information
No	
<p>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</p> <p><a href="#">External/Internal Lab Quality checklist</a> <a href="#">Assessment of results checklist</a></p>	
Yes	

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

Lic No: W0196-01

Year

2018

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof <sup>Note 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
SE 1	Wastewater/ Sewer	BOD	composite	Monthly	Monthly	1000	All values < ELV	164	mg/L	yes	Dissolved Oxygen Meter (Electrode)	UK SCA "Blue Book" series	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	1839.92	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is slightly lower than was reported for 2017.
SE 1	Wastewater/ Sewer	COD	composite	Weekly	Monthly	3000	All values < ELV	1600	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	SOP 1241	25274.1	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is similar to figure reported for 2017.
SE 1	Wastewater/ Sewer	Mineral oils	discrete	Monthly	Monthly	10	All values < ELV	2.54	mg/L	yes	GC-FID	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	TM174	18.68	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is lower than figure reported for 2017.
SE 1	Wastewater/ Sewer	Suspended Solids	composite	Weekly	Monthly	1000	All values < ELV	202	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	SOP 1291	977.7	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is higher than figure reported for 2017.
SE 1	Wastewater/ Sewer	Sulphates	composite	Weekly	Monthly	1000	All values < ELV	260.45	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	SOP 1032	1015.34	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is higher than figure reported for 2017.
SE 1	Wastewater/ Sewer	Ammonia (as N)	composite	Weekly	Monthly	1005.53	All values < ELV	746	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	SOP 2667	9655.45	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is lower than figure reported for 2017.
SE 1	Wastewater/ Sewer	pH	composite	Weekly	Monthly	6 - 10	All values < ELV	8.38	pH units	yes	pH Meter (Electrode)	Manufacturer method	SOP 1134	N/A	N/A
SE 1	Wastewater/ Sewer	Temperature	discrete	Daily	Monthly	42	All values < ELV	17.3	degrees C	yes	Temperature Probe	Manufacturer method	SOP 1513	N/A	N/A
SE 1	Wastewater/ Sewer	Detergents (as MBAS)	discrete	Monthly	Monthly	100	All values < ELV	3	mg/L	yes	The Determination of Methylene Blue Active Substances in Waters	Standard Methods for the Examination of Water and Wastewater. 20th Edition. 1998	TM249	31.01	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is higher than figure reported for 2017.

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															Lic No:	W0196-01	Year	2018
SE 1	Wastewater/ Sewer	Toluene	discrete	Monthly	Monthly	1	All values < ELV	0.007	mg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	US EPA	TM208	0.1159	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is double the figure reported for 2017.			
SE 1	Wastewater/ Sewer	Xylenes	discrete	Monthly	Monthly	1	All values < ELV	0.012	mg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	US EPA	TM208	0.2244	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is lower than figure reported for 2017.			
SE 1	Wastewater/ Sewer	Zinc and compounds (as Zn)	composite	Weekly	Monthly	5	All values < ELV	0.57	mg/L	yes	AAS (Atomic Absorption Spectroscopy)	Standard Methods for the Examination of Water and Wastewater, 18th edition, Metals by Flame Atomic Absorption Spectrometry – Direct Air-Acetylene Flame Method. 3111B	SOP 1247	4.75	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is higher than figure reported for 2017.			
SE 1	Wastewater/ Sewer	Copper and compounds (as Cu)	composite	Weekly	Monthly	5	All values < ELV	0.64	mg/L	yes	AAS (Atomic Absorption Spectroscopy)	Standard Methods for the Examination of Water and Wastewater, 21st edition, 1995, Part 4500-E, Phosphorus Ascorbic Acid Method	SOP 1247	3.60	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is 10 times higher than figure reported for 2017.			
SE 1	Wastewater/ Sewer	Total phosphorus	composite	Weekly	Monthly	50	All values < ELV	34.6	mg/L	yes	Spectrophotometry (Colorimetry)	Standard Methods for the Examination of Water and Wastewater, 21st edition, 1995, Part 4500-E, Phosphorus Ascorbic Acid Method	SOP 1246	112	Measure Value is Highest Value Recorded in the Year. Annual Mass Loading is almost 4 times higher than figure reported for 2017.			
SE 1	Wastewater/ Sewer	volumetric flow	composite	Continuous	Monthly	180	All values < ELV	179.23	m3/day	yes	Flow meter	N/A	SOP 1242	31037.04	Measure Value is Highest daily volume released in the Year. Annual Mass Loading the total volume released in 2018 and is slightly higher than the volume recorded for 2017.			

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

No	
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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

No	
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

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

No	
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**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

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**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 bunding 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
- 2 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore")
- 3 type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

Yes	
3 years	
Yes	
15	
15	
7	
Yes	
7	
N/A	No sumps onsite
N/A	No sumps onsite
N/A	
N/A	
N/A	

**Please list any sump integrity failures in table B1**

- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

**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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* 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 Guidance?

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Yes	
No	
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

1 underground structures 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 of all underground 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)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

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<b>Groundwater/Soil monitoring template</b>	Lic No: W0196-01	Year: 2018
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		Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
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 <a href="#">Groundwater monitoring template</a> Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	no	
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	ELRA pending approval with agency.
9	Has any type of risk assesment been carried out for the site?	no	
10	Has a Conceptual Site Model been developed for the site?	no	
11	Have potential receptors been identified on and off site?	no	
12	Is there evidence that contamination is migrating offsite?	no	

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 interpretaion as an additional section in this AER

Quarterly reports are submitted as per licence conditions and interpretation of data also included in these. This monitoring includes the following parameters: pH, temperature, mineral oil, dissolved oxygen, conductivity and BTEX. Both the mineral oil and BTEX were consistantly found to be below the LOD.

**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
							SELECT			SELECT
							SELECT			SELECT

<b>Groundwater/Soil monitoring template</b>	Lic No: W0196-01	Year: 2018
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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 [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#) (see the link in G31)

\*\*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) [Groundwater regulations \(private supply\)](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#) [Surface water EQS](#) [GTV's](#) [standards](#)

**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

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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 completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	66642	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	66642	
6	Financial Provision for ELRA - type	Other please specify	To be agreed with Agency
7	Financial provision for ELRA expiry date	Enter expiry date	Pending agreement with Agency
8	Closure plan initial agreement status	sure plan submitted and not agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	2816973	
12	Financial Provision for Closure - type	bond	
13	Financial provision for Closure expiry date	Enter expiry date	Pending agreement with Agency

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<b>Environmental Management Programme/Continuous Improvement Programme template</b>		Lic No:	W0196-01	Year	2018
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	
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	A communications folder is maintained onsite for public viewing when requested.

### Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Additional improvements	Installation of automated weighbridge	Complete	Automated weighbridge fully installed and configured to capture all details pertaining to each load entering/leaving site.	Section Head	Increased compliance with licence conditions
Groundwater protection/reduction of emissions to surface water.	Site surface integrity will continue to be monitored, as vehicle movements and weathering can reduce integrity. Further improvements will be carried out in 2019.	90	Surface integrity and maintenance plan is in place for the rear yard where monitoring and repairs are ongoing. Regular roadsweeping plan is in place to improve yard surface sanitation.	Section Head	Increased compliance with licence conditions
Reduction of emissions to Water	Review automatic shut off valves for interceptor	10	Review how to shut of the current shut off valve at the interceptor to close in the case of an alarm	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Replacement of base on Tank 4.	Complete	The replacement of the base of tank 4 was carried out after internal inspection revealed large areas of rust corrosion at tank bottom.	Section Head	Maintenance of infrastructure
Reduction of emissions to Wastewater	Installation of automated effluent release/tank level monitoring system	On hold	This project is on hold due to the impending sale of the site. To be reviewed under new ownership.	Section Head	Improvement of infrastructure
Energy Efficiency/Utility conservation	Review lighting onsite	70	Further bulbs in the yard have been replaced with LEDs. All emergency exit lights now have LEDs.	Section Head	Improved Environmental Management Practices

**Noise monitoring summary report**

Lic No: W0196-01

Year

2018

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

Yes

If yes please fill in table N1 noise summary below

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?

N/A

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)?
18/10/2018	12:03	NB1		54	64	56	44	No	N/A	Enva activity: forklift, tanker unloading at run down screen Extraneous Activity : Traffic on local industrial road dominant (especially HGVs)	Yes
18/10/2018	12:33	NB1		54	65	57	45	No	N/A	Enva activity: forklift, teleporter Extraneous Activity : Traffic on local industrial road dominant (especially HGVs), forklift in adjacent facility	Yes
18/10/2018	13:04	NB1		54	64	56	45	No	N/A	Enva activity: forklift, tanker unloading at run down screen, teleporter Extraneous Activity : Traffic on local industrial road dominant (especially HGVs), talking in adjacent facility	Yes
18/10/2018	13:43	NB2		52	54	53	51	No	N/A	Enva Activity: forklift, tanker unloading at run down screen Extraneous Activity : Traffic on the local industrial road audible (dominant in the absence of vehicle movement onsite)	Yes
18/10/2018	14:14	NB2		52	56	53	50	No	N/A	Enva Activity: tanker unloading at run down screen Extraneous Activity : Traffic on the local industrial road audible (dominant in the absence of vehicle movement onsite)	Yes
18/10/2018	14:44	NB2		51	61	51	49	No	N/A	Enva Activity: forklift, unloading tanker at run down screen, alarm (about 1min) Extraneous Activity: Traffic on the local industrial road audible (dominant in the absence of vehicle movement onsite)	Yes
18/10/2018	13:09	NB3		54	67	55	45	No	N/A	Enva Activity: forklift, tanker unloading at run down screen, teleporter Extraneous Activity: neighbouring facility (fans)	Yes
18/10/2018	13:44	NB3		52	64	57	44	No	N/A	Enva Activity: forklift, tanker unloading at run down screen Extraneous Activity: neighbouring facility (fans)	Yes

18/10/2018	15:45	NB3		56	66	58	48	No	N/A	Enva Activity: run down screen (pumps), forklift, HGV movement Extraneous Activity: neighbouring facility (fans, forklift)	Yes
18/10/2018	14:26	NB4		58	61	59	53	No	N/A	Enva Activity: tanker unloading to run down screen (about 13 mins) Extraneous Activity : Traffic on the local industrial road audible (in the absence of activity at run down screen), airplane overhead	Yes
18/10/2018	14:56	NB4		62	70	65	54	No	N/A	Enva Activity: tanker unloading to run down screen, alarm (about 1min), tanker on weighbridge Extraneous Activity : Traffic on the local industrial road audible (in the absence of activity at run down screen), helicopter	Yes
18/10/2018	15:27	NB4		68	73	69	64	No	N/A	Enva Activity: tanker unloading to run down screen, and HGV movement in/out site Extraneous Activity : Traffic on the local industrial road audible (in the absence of activity at run down screen).	Yes
18/10/2018	10:27	NSL1	Place of worship of the west	62	70	66	55	No	N/A	Dominant noise : local industrial traffic passing NSL (almost continuous and included HGVs). Enva Activity: run down screen and vehicle movement	Yes
18/10/2018	10:58	NSL1	Place of worship of the west	60	69	63	55	No	N/A	Dominant noise : local industrial traffic passing NSL (almost continuous and included HGVs). Enva Activity: run down screen and vehicle movement	Yes
18/10/2018	11:29	NSL1	Place of worship of the west	62	69	65	56	No	N/A	Dominant noise : local industrial traffic passing NSL (almost continuous and included HGVs). Enva Activity: Tank unloading at run down screen and vehicle movement	Yes
18/10/2018	22:17	NSL1	Place of worship of the west	54	58	56	53	No	N/A	Dominant noise : Industrial noise from the E/SE and traffic on Naas Road / Killeen road. Traffic from the west. Local traffic pass: approx. 7 cars. No noise audible from Enva	Yes
18/10/2018	22:59	NSL1	Place of worship of the west	55	58	56	53	No	N/A	Dominant noise : Industrial noise from the E/SE and traffic on Naas Road / Killeen road. Traffic from the west. is audible. Occasional hiss from Enva audible. Local traffic pass: approx. 6 cars. No noise audible from Enva	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?

N/A

\*\* please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

## Resource Usage/Energy efficiency summary

Lic No:

W0196-01

Year

2018

## Additional information

- 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

N/A	
No	
N/A	

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	76.183	91.498	N/A	N/A
Total Energy Generated (MWHrs)	N/A	N/A	N/A	N/A
Total Renewable Energy Generated (MWHrs)	N/A	N/A	N/A	N/A
Electricity Consumption (MWHrs)	76.183		N/A	N/A
Fossil Fuels Consumption:	N/A	N/A	N/A	N/A
Heavy Fuel Oil (m3)	N/A	N/A	N/A	N/A
Light Fuel Oil (m3)	3.003	2.403	N/A	N/A
Natural gas (m3)	N/A	N/A	N/A	N/A
Coal/Solid fuel (metric tonnes)	N/A	N/A	N/A	N/A
Peat (metric tonnes)	N/A	N/A	N/A	N/A
Renewable Biomass	N/A	N/A	N/A	N/A
Renewable energy generated on site	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

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*	Water Emissions		Water Consumption	
					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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surface water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Public supply	93.972	78.949	N/A	N/A	78.949	0	0	0
Recycled water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	93.972	78.949	0	0	78.949	0	0	0

\* 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

<b>Resource Usage/Energy efficiency summary</b>	Lic No:	W0196-01	Year	2018
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Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	6628.1				
Non-Hazardous (Tonnes)	25233.56				

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					

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**Complaints and Incidents summary template** Lic No: W0196-01 Year 2018

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		No

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
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year							
Total new complaints received during reporting year							
Total complaints closed during reporting year							
Balance of complaints end of reporting year							

Incidents		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below		No

\*For information on how to report and what constitutes an incident [What is an incident](#)

Table 2 Incidents summary														
Date of occurrence	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action <20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year														
Total number of incidents previous year														
% reduction/increase														

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**SECTION A- WASTE MANAGEMENT RECORD FOR WASTE TRANSFERRED OFF SITE**

Please insert details of waste transferred off site in the adjoining Waste Management Record tab.

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

Additional Information

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)

Yes	
-----	--

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

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

No	
----	--

**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)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code <a href="#">European Waste Catalogue EWC 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 -
26000 (Non-hazardous)	16 10 02	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	aqueous liquids	1037.8	42.08	2366%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
26000 (Non-hazardous)	19 07 03	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	landfill leachate	23505.84	20546.41	14%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
26000 (Non-hazardous)	19 08 05	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	Sludges from treatment of urban waste water	65	208.4	-69%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
26000 (Non-hazardous)	19 09 02	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	sludges from water clarification	478.06	6715.06	-93%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
26000 (Non-hazardous)	19 11 06	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	sludges from on-site effluent treatment	45.18	115.4	-61%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
26000 (Non-hazardous)	20 01 25	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Grease trap waste	101.68	91.02	12%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	2.14	12.8T stored onsite from 2017
9400 (Hazardous)	13 02 08*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	other engine, gear and lubricating oils	138.14	114.865	20%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	3.2	
9400 (Hazardous)	13 04 03*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	bilge oils from other navigation	30.9	24.58	-62%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 01*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	solids from grit chambers and oil/water separators	68.08	1.96	3373%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 02*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	sludges from oil/water separators	83.22	65.54	27%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 03*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	interceptor sludges	1005.88	1063.03	-5%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 06*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	oil from oil/water separators	27.74	245.44	-89%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 07*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	oily water from oil/water separators	3828.89	3707.103	3%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 05 08*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	mixtures of wastes from grit chambers and oil/water separators	489.28	302.66	62%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 07 01*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	fuel oil and diesel	52.38	144.21	-64%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
9400 (Hazardous)	13 07 03*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	other fuels (including mixtures)	91.9	329.69	-72%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	13 08 02*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	other emulsions	671.59	585.37	15%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	15 02 02*	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	absorbents, filter materials	0.42	1.38	-70%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0.34	0.44 stored onsite from 2017
9400 (Hazardous)	16 07 08*	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	wastes containing oil	13.26	29.06	-54%	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12		
9400 (Hazardous)	16 07 09*	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	wastes containing other dangerous substances	104.44	0	#DIV/0!	Variation in business and waste streams from customers jobs	N/A	D9-Physico-Chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means D1 to D12	0.12	
9400 (Hazardous)	17 02 04*	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	wood contaminated with creosote	2.02	19.02	-89%	Variation in business and waste streams from customers jobs	N/A	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	10.72	8.7 T stored onsite from 2017

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**SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES**

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

Yes	
-----	--

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

Yes	
-----	--

6 Does your facility have relevant nuisance controls in place?

Yes	
-----	--

7 Do you have an odour management system in place for your facility? If no why?

Yes	
-----	--

8 Do you maintain a sludge register on site?

No	
----	--

**SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY**

**Table 2 Waste type and tonnage-landfill only**

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

**Table 3 General information-Landfill only**

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

**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	

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Waste Summary Continued

Please insert a copy of your Waste Management Record for waste transferred off site

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)

List of Waste (LoW) LoW Code	LoW Description	Classification	Quantity of waste Tonnes / year	Next Destination Organisation	Waste Treatment Operation	Final Destination Organisation	Waste Treatment Operation
19 09 02	sludges from water clarification	-	453.42	Corranure Landfill - W0077	R10 - Land treatment resulting in benefit to agriculture or ecological improvement	-	
20 01 25	edible oil and fat	-	112.34	Kilmainhamwood Compost - W0195	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	-	
13 02 08*	other engine, gear and lubricating oils	Hazardous	94.38	Enva Ireland Limited (Portlaoise) - W0184	R09 - Oil re-refining or other reuses of oil	-	
13 05 02*	sludges from oil/water separators	Hazardous	2.61	Enva Ireland Limited (Portlaoise) - W0184	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Lindenschmidt KG	R01 - Use principally as a fuel or other means to generate energy
13 05 03*	interceptor sludges	Hazardous	11.54	Enva Ireland Limited (Portlaoise) - W0184	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Lindenschmidt KG	R01 - Use principally as a fuel or other means to generate energy
13 05 07*	oily water from oil/water separators	Hazardous	14.19	Enva Ireland Limited (Portlaoise) - W0184	D09 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)	-	
13 07 01*	fuel oil and diesel	Hazardous	16.75	Enva Ireland Limited (Portlaoise) - W0184	R09 - Oil re-refining or other reuses of oil	-	
13 08 02*	other emulsions	Hazardous	90.43	Enva Ireland Limited (Portlaoise) - W0184	R09 - Oil re-refining or other reuses of oil	-	
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Hazardous	1.2	Enva Ireland Limited (Portlaoise) - W0184	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Lindenschmidt KG	R01 - Use principally as a fuel or other means to generate energy

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