Facility Information Summary	
AER Reporting Year	2013
Licence Register Number	P0566-02
Name of site	Tawnaghmore Generating Station
Site Location	Killala, Co. Mayo.
NACE Code	3511
Class/Classes of Activity	Production and supply of electricity
National Grid Reference (6E, 6 N)	120370E, 327918N

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.

Tawnaghmore Peaking Capacity Plant is located in north County Mayo in an elevated position 3 km to the south of Killala village along the R314 Ballina/Killala road. The surrounding catchment area is the Moy River and the land use is predominantly agricultural land.The plant has been in operation since late 2000 with the purpose of covering the peaks in electricity demand. The site area at Tawnaghmore, Killala is 3.56 hectares. At Tawnaghmore PCP the process involved is the combustion of gas oil (distillate fuel oil) in a gas turbine (GT) that drives a generator for electricity production. The combustion plant currently installed consists of two TwinPac turbine sets, manufactured by Pratt and Whitney, comprising two combustion turbines each (and therefore two exhaust stacks each 20m high) driving a common generator. The total rated electrical output of the each unit is approximately 52MWe. Unit 1 commenced operation in December 2003. The installation of a second turbine occurred in 2008 and doubled the electrical output capacity bringing the total output to 104 MWe. In addition to the combustion plant itself, the main infrastructure on site includes a water treatment plant, water storage tanks, bunded steel oil storage tanks and bunded transformers. Gas oil with low sulphur content is used for combustion in the gas turbines. Fuel consumption will depend on the actual number of run hours during the period of deployment. In 2013, 66.3 tonnes were consumed. There was 1060 MWh of electricity generated in 2012 and 210 MWh in 2013. This is a 80% decrease in electricity generated during the reporting period. Demineralised water injection is used for NOx emissions reduction. Emissions to atmosphere (CO2 and NOx) were decreased on previous years due to decreased running. Demineralised water and gas oil consumed in 2013 was also decreased.

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.

Caroline O'Connell	31/03/2013
Signature	Date
Environmental Co-ordinator	
(or nominated, suitably qualified and experienced deputy)	

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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	

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		
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		

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 therof	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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Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	Yes	
	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	Yes	Repair of Unit 3 NO bench reported in December 2012 was resolved in Quarter 1 2013. N2 bubblers were installed in Unit 1 and 3 in July 2013 to prevent negative NO readings.
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
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
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	94		0	0	10/01/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	98		0	0	22/03/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	88		0	0	30/09/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	151		0	0	08/11/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	98		0	0	09/11/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm4	39		0	0	14/11/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm5	90		0	0	15/11/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm6	87		0	0	18/11/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm7	65		0	0	06/12/2013
A1	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm8	152		0	0	14/12/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	108858		0	0	10/01/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	150385		0	0	22/03/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	172406		0	0	30/09/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	170217		0	0	08/11/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	88107		0	0	09/11/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	86279		0	0	14/11/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	107242		0	0	15/11/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	112805		0	0	18/11/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	188900		0	0	06/12/2013
A1	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	225526		0	0	14/12/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	90		0	0	22/03/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	67		0	0	30/09/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	86		0	0	08/11/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	181		0	0	09/11/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	92		0	0	06/12/2013
A2	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	123		0	0	14/12/2013

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A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	222431		0	0	22/03/2013
A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	198160		0	0	30/09/2013
A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	182708		0	0	08/11/2013
A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	82684		0	0	09/11/2013
A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	221152		0	0	06/12/2013
A2	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	138667		0	0	14/12/2013
A3	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	15		0	0	11/03/2013
A3	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	80		0	0	22/03/2013
A3	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	139		0	0	16/12/2013
A3	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	111		0	0	19/12/2013
A3	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	93581		0	0	11/03/2013
A3	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	141880		0	0	22/03/2013
A3	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	87974		0	0	16/12/2013
A3	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	135046		0	0	19/12/2013
A4	Nitrogen oxides (NOx/NO2)	120	Daily	Daily average < ELV	mg/Nm3	68		0	0	17/12/2013
A4	volumetric flow	235138	Hourly	All 1-hour averages < ELV	Nm3/hour	107244		0	0	17/12/2013
	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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Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5

No

Table A4: Solvent Management Plan Summary
Total VOC Emission limit value

Solvent regulations — Please refer to linked solvent regulations to complete table 5 and 6

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0566-02 Year 2013

			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 **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes	
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 only any evidence of contamination noted during visual inspections	Yes	

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced 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	
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	External /Internal Lab Quality checklist	Assessment of results checklist	Yes	

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 thereof[Note 2]	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
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Jan
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.7	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Feb
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Mar
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from the specified range.	Sample did not reach the lab	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard			Apr
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.2	pH units	yes	pH Meter (Electrode)	APHA / AWWA			May
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Jun
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Jul
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.1	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Aug
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Sep
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.4	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Oct
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Nov
S2	Water	pH	discrete	Monthly	Monthly	8.7	No pH value shall deviate from	7.4	pH units	yes	pH Meter (Electrode)	APHA / AWWA			Dec
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	15	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Jan
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	15	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Feb
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	18	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Mar
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	Sample did not reach the lab	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard			Apr
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	11	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			May
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	25	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Jun
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	19	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Jul
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	13	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Aug
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Sep
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	17	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Oct
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	<10	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Nov
S2	Water	COD	discrete	Monthly	Monthly	80.39	All results < 1.2 x ELV	24	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA			Dec
S2	Water	Conductivity	discrete	Monthly	Monthly			149.6	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Jan
S2	Water	Conductivity	discrete	Monthly	Monthly			341	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Feb
S2	Water	Conductivity	discrete	Monthly	Monthly			196.1	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Mar
S2	Water	Conductivity	discrete	Monthly	Monthly			Sample did not reach the lab	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA "Standard			Apr
S2	Water	Conductivity	discrete	Monthly	Monthly			160.3	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			May

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S2	Water	Conductivity	discrete	Monthly	Monthly			138.3	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Jun
S2	Water	Conductivity	discrete	Monthly	Monthly			167.1	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Jul
S2	Water	Conductivity	discrete	Monthly	Monthly			97.9	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Aug
S2	Water	Conductivity	discrete	Monthly	Monthly			247.9	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Sep
S2	Water	Conductivity	discrete	Monthly	Monthly			335	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Oct
S2	Water	Conductivity	discrete	Monthly	Monthly			169	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Nov
S2	Water	Conductivity	discrete	Monthly	Monthly			314	us/cm	yes	INSTRUMENTAL METHODS	APHA / AWWA			Dec
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Jan
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Feb
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Mar
S2	Water	Volatile organic compounds (as TOC)	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	Sample did not reach the lab	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA "Standard			Apr
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			May
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Jun
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Jul
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Aug
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Sep
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Oct
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Nov
S2	Water	Volatile organic	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GCMS (Gas Chromatography Mass Spectroscopy)	APHA / AWWA			Dec
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jan
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Feb
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Mar
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	Sample did not reach the lab	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA "Standard			Apr
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			May
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jun
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jul
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Aug
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	260	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Sep
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Oct
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Nov
S2	Water	DRO	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Dec
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jan
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Feb
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Mar
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	Sample did not reach the lab	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA "Standard			Apr
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			May
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jun
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Jul
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Aug
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Sep
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Oct
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Nov
S2	Water	Mineral Oil	discrete	Monthly	Monthly	>10	All results < 1.2 x ELV	<10	µg/L	yes	GC (Gas Chromatography)	APHA / AWWA			Dec

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0566-02 Year 2013

Continuous monitoring

			Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	Yes	No demineralisation water was produced during 2013 therefore, no neutralised effluent was created.

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**	SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8	Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**	SELECT	

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/Pipeline testing template

Lic No: P0566-02 Year 2013

Bund testing

dropdown menu click to see options

			Additional information
1	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)	Yes	
2	Please provide integrity testing frequency period	3 years	
3	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)	Yes	
4	How many bunds are on site?	15	
5	How many of these bunds have been tested within the required test schedule?	15	
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	No	
8	How many of these mobile bunds have been tested within the required test schedule?	0	
9	How many sumps on site are included in the integrity test schedule?	0	
10	How many of these sumps are integrity tested within the test schedule?	0	
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	No	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	N/A	
13	Is the Fire Water Retention Pond included in your integrity test programme?	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)
	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

			Commentary
15	Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?	bunding and storage guidelines	Yes	
16	Are channels/transfer systems to remote containment systems tested?		No	
17	Are channels/transfer systems compliant in both integrity and available volume?		N/A	

Pipeline/underground structure testing

1	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 and pipelines on site **which failed the integrity test and all which have not been tested withing the integrity test period as specified**	Yes	
2	Please provide integrity testing frequency period	3 years	

*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

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)
S2B to S2C	Storm	pvc	No	N/A	Combination	Yes	Fail	Open joint	The S2 sampling point has been relocated to within the site boundary. This pipeline was not repaired as it is outside the site boundary and downstream of S2 sampling point.	2016	SELECT
S4 to S5	Storm	pvc	No	N/A	Combination	Yes	Fail	Intruding Rubber Ring	Dug and repaired	2016	
S6 to S7	Storm	pvc	No	N/A	Combination	Yes	Fail	Broken Pipe	Dug and repaired	2016	

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

Groundwater/Soil monitoring template	Lic No:	P0566-02	Year	2013

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	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
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. Groundwater monitoring template	SELECT		
5	Is the contamination related to operations at the facility (either current and/or historic)	no		
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?	no		
11	Have potential receptors been identified on and off site?	yes		
12	Is there evidence that contamination is migrating offsite?	no		Please enter interpretation of data here

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 yea

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

*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)

Surface water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

Groundwater/Soil monitoring template	Lic No:	P0566-02	Year	2013

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

Environmental Liabilities template	Lic No:	P0566-02	Year	2013

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	€89,000	
4	Financial Provision for ELRA status	Required but not submitted	
5	Financial Provision for ELRA - amount of cover	€89,000	
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover	
7	Financial provision for ELRA expiry date		
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	€61,000	
12	Financial Provision for Closure - type	Other please specify dismantling provision in annual accounts	
13	Financial provision for Closure expiry date		

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	P0566-02	Year	2013

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	
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
Materials Handling/Storage/Bunding	Fuel tank leak prevention	100	Locks installed. Safety Shut off values not installed. Leak detection system to be installed instead during 2014.	Individual	Improved Environmental Management Practices
Additional improvements	Investigate implementing the PEMS system for air emission monitoring	100	PEMs data to date sent to Agency in June. Currently, not enough data to justify migrating to PEMs	Individual	Increased compliance with licence conditions
Additional improvements	ISO 14001 Compliance	100	No major non conformances during external audit	Individual	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Bund inspection programme 2013	100	Bunds tested and passed	Individual	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Tank inspection programme 2013	50	Day tank tested. Main GO tank to be finalised.	Individual	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Visit Waste Contractor site to determine compliance	0	Date for another visit to Enva premises to be agreed.	Individual	Improved Environmental Management Practices
Reduction of emissions to Water	Diesel Generator Bund drainage to SW interceptor	0	Significant work required to connect to interceptor This tank is double bunded. Any draining is manually done therefore, any contamination will be detected. Therefore, this objective will not be completed.	Individual	Reduced emissions
Materials Handling/Storage/Bunding	Gas oil (GO) Filtration to prevent corrosion of tanks	100	Complete	Individual	Improved Environmental Management Practices
Additional improvements	Conduct a process hazard review (PHR) for all processes on-site	100	PHR has been completed. High environmental actions idientified to be completed in 2014/2015.	Individual	Improved Environmental Management Practices
Additional improvements	SDS project to ensure REACH compliance.	0	To be completed	Individual	Reduced emissions
Additional improvements	Fuel Pipe Protection	100	Exposed non - protected pipe in main fuel storage bund. Trip hazard. Steps over pipe installed in March	Individual	Installation of infrastructure
Additional improvements	Implementation of computer maintenance management system MAXIMO	100	Successfully implemented in April	Individual	Improved Environmental Management Practices

Noise monitoring summary report	Lic No:	P0566-02	Year	2013

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below	No
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)	SELECT
3	Does your site have a noise reduction plan	SELECT
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?	SELECT

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA_{90}	LA_{10}	LA_{max}	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)?
								SELECT	SELECT		SELECT

*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)

Resource Usage/Energy efficiency summary	Lic No:	P0566-02	Year	2013

			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	SEAI - Large Industry Energy Network (LIEN)	No
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	Yes	<1%

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)				
Total Energy Generated (MWHrs)	1060	210	-80%	
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)				
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	304.8 tonnes	66.3 tonnes	-78%	
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* 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^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply		692					
Recycled water							
Total		692					

* 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)	13.91			7.82	6.09
Non-Hazardous (Tonnes)	39.99	5.81		1.185	33

Resource Usage/Energy efficiency summary Lic No: P0566-02 Year 2013

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	Gas Turbine	Gas Turbine			
Primary Fuel	LFO	LFO			
Thermal Efficiency					
Unit Date of Commission	2003	2008			
Total Starts for year	28	8			36
Total Running Time	06:53:00	03:16:00			10:09:00
Total Electricity Generated (GWH)	0.16	0.05			0.21
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					0.03

Complaints and Incidents summary template Lic No: P0566-02 Year 2013

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 reoccurence

Total number of incidents current year	
Total number of incidents previous year	
% reduction/ increase	

WASTE SUMMARY Lic No: P0566-02 Year 2013

SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES PRTR facility logon dropdown list click to see options

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

			Additional Information
1	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)	No	
	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	SELECT	
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	SELECT	

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)

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted **Please enter an accurate and detailed description - which applies to relevant EWC code** European Waste Catalogue EWC codes	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 -

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	SELECT	
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	SELECT	
6	Does your facility have relevant nuisance controls in place?	SELECT	
7	Do you have an odour management system in place for your facility? If no why?	SELECT	
8	Do you maintain a sludge register on site?	SELECT	

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 SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlined area SELECT UNIT	Comments on liner type
Cell 8													

WASTE SUMMARY Lic No: P0566-02 Year 2013

Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

Was meterological 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	

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2013

1. FACILITY IDENTIFICATION

Parent Company Name	SSE Generation Ireland Limited (Killala)
Facility Name	SSE Generation Ireland Limited (Killala)
PRTR Identification Number	P0566
Licence Number	P0566-02

Waste or IPPC Classes of Activity

No.	class_name
2.1	The operation of combustion installations with a rated thermal input equal to or greater than 50MW

Address 1	ESB Killala
Address 2	Tawnaghmore
Address 3	Killala
Address 4	Co. Mayo
	Mayo
Country	Ireland
Coordinates of Location	-9.22019 54.1943
River Basin District	IEWE
NACE Code	3511
Main Economic Activity	Production of electricity
AER Returns Contact Name	Caroline O'Connell
AER Returns Contact Email Address	caroline.o'connell@ssegeneration.ie
AER Returns Contact Position	Environmental Co-ordinator
AER Returns Contact Telephone Number	00353 (0)68 29206
AER Returns Contact Mobile Phone Number	00353 86 8216392
AER Returns Contact Fax Number	00353 (0)68 36156
Production Volume	104.0
Production Volume Units	MW
Number of Installations	1
Number of Operating Hours in Year	10
Number of Employees	2
User Feedback/Comments	There as an 80% decrease in electricity generated during the reporting period from 1060 MWh in 2012 to 210 MWh in 2013. This has resulted in reduced emissions from the site and a variance from last years repored emissions.
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
1(c)	Thermal power stations and other combustion installations

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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
03	Carbon dioxide (CO2)	C	ETS		210569.6	210569.6	0.0	0.0
08	Nitrogen oxides (NOx/NO2)	M	ISO 10849:1996		261.7	261.7	0.0	0.0
				tonnes of gas oil used*0.1/100 % sulphur*				
11	**Sulphur oxides (SOx/SO2)**	M	OTH	1.998	132.5	132.5	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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: SSE Generation Ireland Limited (Killala)

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: 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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT					QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

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			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING 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			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs	
POLLUTANT		METHOD				
			Method Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
					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)

RELEASES TO LAND					Please enter all quantities in this section in KGs	
POLLUTANT		METHOD				
			Method Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year
					0.0	0.0

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

01/04/2014 12:50

QUANTITY
A (Accidental) KG/Year
0.0

QUANTITY
A (Accidental) KG/Year
0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	06 04 99	No	0.0	wastes not otherwise specified	R4	M	Weighed	Offsite in Ireland	Galway Metal,WR/054	Oramore,.,.,Co. Galway,Ireland		
Within the Country	13 07 03	Yes	7.64	other fuels (including mixtures)	R9	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Enva Ireland Ltd,W0184-01,Portlaoise,.,.,.,Ireland	Portlaoise,.,.,.,Ireland
Within the Country	15 01 06	No	0.16	mixed packaging	R3	M	Weighed	Offsite in Ireland	McGrath Industrial Waste,CW002	Turlough ,Castlebar ,Co. Mayo,.,Ireland		
To Other Countries	15 02 02	Yes	0.0	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	D10	M	Weighed	Abroad	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Lindenschmidt,E97095037,Kreuztal,.,.,.,Germany	Kreuztal,.,.,.,Germany
To Other Countries	16 01 07	Yes	0.0	oil filters	D10	M	Weighed	Abroad	Enva ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	RD Recycling,51727/1/KD,.,.,.,., Belgium	.,.,.,.,Belgium
Within the Country	17 02 01	No	0.98	wood	R5	M	Weighed	Offsite in Ireland	WRS Recycling,W0107-01	.,.,Fermoy,Co. Cork,Ireland		
Within the Country	17 04 07	No	0.0	mixed metals	R4	M	Weighed	Offsite in Ireland	McGrath Industrial Waste,CW002	Turlough ,Castlebar ,Co. Mayo,.,Ireland		
Within the Country	17 05 03	Yes	0.0	soil and stones containing dangerous substances	R3	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Enva Ireland Ltd,W0184-01,Portlaoise,.,.,.,Ireland	Portlaoise,.,.,.,Ireland
Within the Country	19 08 06	Yes	0.0	saturated or spent ion exchange resins	D1	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Enva Ireland Ltd,W0184-01,Portlaoise,.,.,.,Ireland	Portlaoise,.,.,.,Ireland
Within the Country	20 01 21	Yes	0.0	fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Enva Ireland Ltd,W0184-01,Portlaoise,.,.,.,Ireland	Portlaoise,.,.,.,Ireland
Within the Country	20 03 01	No	5.81	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	McGrath Industrial Waste,CW002	Rathroeen Landfill,Killala,Ballina,Co. Mayo,Ireland		
Within the Country	20 03 04	No	33.0	septic tank sludge	D8	C	Volume Calculation	Offsite in Ireland	MDS,NWCPO-12-11096-01	Carrick ,Attymass ,Ballina ,Co Mayo,Ireland		
Within the Country	16 02 16	No	0.045	components removed from discarded equipment other than those mentioned in 16 02 15	R4	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland		
Within the Country	16 07 08	Yes	6.09	wastes containing oil	D9	M	Weighed	Offsite in Ireland	Lehane Environmental and Industrial Services,WCP-CK-08-0574-02	Wallingstown Industrial Estate,Little Island,.,Co. Cork,Ireland	Rilta Environmental Limited ,WO192-3, Block 402 ,Grant's Drive ,Greenogue Business Park ,Rathcoole Dublin,Ireland	Block 402 ,Grant's Drive ,Greenogue Business Park ,Rathcoole Dublin,Ireland
To Other Countries	16 06 01	Yes	0.18	lead batteries	R6	M	Weighed	Abroad	Enva ireland Ltd.,W0184-01	Portlaoise,.,.,.,Ireland	Campine Recycling,MLAV/05/173/GVDA,Beerse,.,.,.,Belgium	Beerse,.,.,.,Belgium

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

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance