

ANNEX 1: TABLES/ATTACHMENTS

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Table E.1 (i) BOILER EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point:

Emission Point Ref. N ^o :	Not Applicable	
Location:		
Grid Ref. (12 digit, 6E,6N):		
Vent Details	Diameter:	Height above Ground(m):
Date of commencement of emission:		

Characteristics of Emission:

Boiler rating		
Steam Output:		kg/hr
Thermal Input:		MW
Boiler fuel		
Type:		
Maximum rate at which fuel is burned		kg/hr
% sulphur content:		
NOx		mg/Nm ³
Maximum volume* of emission		0°C, 3% O ₂ (Liquid or Gas), 6% O ₂ (Solid Fuel) m ³ /hr
Minimum efflux velocity		0°C, 3 % O ₂ (liquid or gas), 6 % O ₂ (solid fuel) m.sec ⁻¹
Temperature	°C(max)	°C(min) °C(avg)

* Volume flow limits for emissions to atmosphere shall be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa), dry gas; 3% oxygen for liquid and gas fuels; 6% oxygen for solid fuels.

- (i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included*):

Periods of Emission (avg)	_____ min/hr	24 hr/day	252 day/yr
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TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-1
Source of Emission:	Rubber Fume
Location:	BU3
Grid Ref. (12 digit, 6E,6N):	168395, 336310
Vent Details	400mm
Diameter:	
Height above Ground(m):	9.5m
Date of commencement:	2014

Characteristics of Emission:

(i) Volume to be emitted:			
Average/day	Nm ³ /d	Maximum/day	Nm ³ /d
Maximum rate/hour	2,969 Nm ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max) 18	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr	24 hr/day	252 day/yr
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Periods of Emission (avg) _____ min/hr _____ hr/day _____ day/yr

Table E.1(ii) MAIN Emissions to Atmosphere (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-2
Source of Emission:	Rubber Fume
Location:	BU2
Grid Ref. (12 digit, 6E,6N):	168473, 336328
Vent Details Diameter:	400mm
Height above Ground(m):	9,5
Date of commencement:	2001

Characteristics of Emission:

(i) Volume to be emitted:			
Average/day	Nm ³ /d	Maximum/day	Nm ³ /d
Maximum rate/hour	Nm ³ /h 2,157	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max) 26	°C(min)	°C(avg)
For Combustion Sources: Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg) _____ min/hr _____ hr/day _____ day/yr
Periods of Emission (avg) _____ min/hr _____ hr/day _____ day/yr

Table E.1(ii) MAIN Emissions to Atmosphere (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-3
Source of Emission:	Rubber Fume
Location:	BU2
Grid Ref. (12 digit, 6E,6N)	168463, 336311
Vent Details Diameter:	400mm
Height above Ground(m)	9,5m
Date of commencement:	2001

Characteristics of Emission:

(i) Volume to be emitted:			
Average/day	Nm ³ /d	Maximum/day	Nm ³ /d
Maximum rate/hou	Nm ³ /h 4,435	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max) 18	°C(min)	°C(avg)
For Combustion Sources: Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up / shutdown be included*):

Periods of Emission (avg)	min/hr	24	hr/day	252	day/yr
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Periods of Emission (avg)	min/hr	hr/day	day/yr
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Table E.1(ii) MAIN Emissions to Atmosphere (1 Page for each emission point)

Emission Point Ref. N^o:	A2-4
Source of Emission:	Rubber Fume
Location:	BU1
Grid Ref. (12 digit, 6E,6N)	168440, 336341
Vent Details Diameter:	400mm
Height above Ground(m)	9.5m
Date of commencement:	2001

Characteristics of Emission:

(i) Volume to be emitted:			
Average/day	Nm³/d	Maximum/day	Nm³/d
Maximum rate/hou	Nm³/h 1,284	Min efflux velocity	m.sec⁻¹
(ii) Other factors			
Temperature	°C(max) 18	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (start-up /shutdown be included):

Periods of Emission (avg	_____ min/hr	<u>24</u> hr/day	<u>252</u> day/yr
Periods of Emission (avg	_____ min/hr	_____ hr/day	_____ day/yr

Table E.1(ii) MAIN Emissions to Atmosphere (1 Page for each emission point)

Emission Point Ref. N ^o :	A2-5 Proposed
Source of Emission:	VOC
Location:	BU2
Grid Ref. (12 digit, 6E,6N)	168433, 336321
Vent Details Diameter:	100mm
Height above Ground(m)	9.5m
Date of commencement:	pending

Characteristics of Emission:

(i) Volume to be emitted:			
Average/day	Nm ³ /d	Maximum/day	Nm ³ /d
Maximum rate/hou	Nm ³ /h 388	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max) 20	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____ %O ₂			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (start-up /shutdown be included):

Periods of Emission (avg)	_____ min/hr	<u>1</u> hr/day	<u>252</u> day/yr
Periods of Emission (avg)	_____ min/hr	_____ hr/day	_____ day/yr

Table E.1(ii) MAIN Emissions to Atmosphere (1 Page for each emission point)

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-1

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Rubber Fume and Particulate matter PM ₁₀					ElectroStatic Precipitator	0.35		0.012		72.57	

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-2

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Rubber Fume and Particulate matter PM ₁₀					ElectroStatic Precipitator		4.0		0.008		48.38

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

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TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-3

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾							
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year			
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max		
Rubber Fume and Particulate matter PM ₁₀					ElectroStatic Precipitator		10.4			0.046			278.21

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

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TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-4

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾							
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year			
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max		
Rubber Fume and Particulate matter PM ₁₀					ElectroStatic Precipitator		5.4		0.007				42.34

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

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TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: A2-5 Proposed

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
Volatile Organic Compound		121.0		0.047	Activated Carbon Adsorbtion	76.3		0.296		8.98	
		493.3		0.191		281.7		0.109		33.05	
		0.3		0.00011		0.3		0.00011		0.035	

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor atmospheric emissions - NOT APPLICABLE

Emission point Reference Numbers	Description	Emission details ¹				Abatement system employed
		material	mg/Nm ₃₍₂₎	kg/h.	kg/year	

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- 1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
- 2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

TABLE E.1(v): EMISSIONS TO ATMOSPHERE – Fugitive and Potential atmospheric emissions - NOT APPLICABLE

Emission point ref. no. (as per flow diagram)	Description	Malfunction which could cause an emission	Emission details (Potential max. emissions) ¹		
			Material	mg/Nm ³	kg/hour

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¹ Estimate the potential maximum emission for each malfunction identified.

TABLE E.2(i): EMISSIONS TO SURFACE WATERS

(One page for each emission)

Emission Point:

Emission Point Ref. N°:	NOT APPLICABLE	
Source of Emission:		
Location of discharge :		
Grid Ref. (12 digit, 6E,6N):		
Name of receiving waters and water body code:		
Flow rate in receiving waters:	_____ m ³ .sec ⁻¹ Dry Weather Flow	_____ m ³ .sec ⁻¹ 95%ile flow
Available assimilative capacity:	_____ kg/day	

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number: NOT APPLICABLE

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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TABLE E.3(i): EMISSIONS TO SEWER (One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	SE1
Location of connection to sewer:	BU2
Grid Ref. (12 digit, 6E,6N):	168473, 336262
Name of sewage undertaker:	Sligo County Council WWTP

Emission Details:

(i) Volume to be emitted			
Normal/day	2m ³	Maximum/day	m ³
Maximum rate/hour	6m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr	<u>24</u> hr/day	<u>252</u> day/yr
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TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission (1 table per emission point)

Emission point reference number: SE1

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
<u>BOD</u>							<u>0.24</u>	<u>60.679</u>	
<u>COD</u>							<u>0.120</u>	<u>303.39</u>	
<u>Oils, Fats & Greases</u>							<u>0.016</u>	<u>4.068</u>	

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TABLE E.4(i): EMISSIONS TO GROUND (1 Page for each emission point) **NOT APPLICABLE**

Emission Point or Area:

Emission Point/Area Ref. N ^o :	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc):	
Identity and proximity of surface water bodies at risk:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
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TABLE E.4(ii): EMISSIONS TO GROUND - Characteristics of the emission (1 table per emission point)

Emission point/area reference number: NOT APPLICABLE

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure ¹ dBA at reference distance	Octave bands (Hz) Sound Pressure ¹ Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission ²	
				31.5	63	125	250	500	1K	2K	4K			8K
Bin lorry	Ns1	LEN070,	93.7db										no	24HRS
Bird song	Ns2	LEN 071												
	NM3													
	NM4													

1. For items of plant, sound power levels may be used.
2. Periods of emission should state if the plant item in question operates on a continuous or intermittent basis. If intermittent then further details of the hours of operation and any potential impulsive components associated with the source should be clearly identified.

**** See attached Noise Survey for full results Attachment E.5**

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TABLE F.1(i): ABATEMENT / TREATMENT CONTROL

Emission point reference number: A2-1

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up
Temperature Voltage	ESP08 SMOG HOG SH20/3 PEM	Monthly preventative maintenance 8 monthly major service	Monthly	3 similar systmes in use

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Temperature Voltage	Monthly	Temperature probe Voltage Meter	Annually

- ¹ List the operating parameters of the treatment / abatement system which control its function.
- ² List the equipment necessary for the proper function of the abatement / treatment system.
- ³ List the monitoring of the control parameter to be carried out.

TABLE F.1(i): abatement / treatment control

Emission point reference number: A2-2

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up
Temperature Voltage	ESP04 Trion T5/200	Monthly preventative maintenance 8 monthly major service	Monthly	3 similar systmes in use

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Temperature Voltage	Monthly	Temperature probe Voltage Meter	Annually

¹ List the operating parameters of the treatment / abatement system which control its function.

² List the equipment necessary for the proper function of the abatement / treatment system.

³ List the monitoring of the control parameter to be carried out.

TABLE F.1(i): abatement / treatment control

Emission point reference number: A2-3

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up
Temperature Voltage	ESP02 SMOG HOG SH20/3 PEM	Monthly preventative maintenance 8 monthly major service	Monthly	3 similar systmes in use

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Temperature Voltage	Monthly	Temperature probe Voltage Meter	Annually

- ¹ List the operating parameters of the treatment / abatement system which control its function.
² List the equipment necessary for the proper function of the abatement / treatment system.
³ List the monitoring of the control parameters to be carried out.

TABLE F.1(i): abatement / treatment control

Emission point reference number: A2-4

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up
Temperature Voltage	ESP03 SMOG HOG SH20/3 PEM	Monthly preventative maintenance 8 monthly major service	Monthly	3 similar systmes in use

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Temperature Voltage	Monthly	Temperature probe Voltage Meter	Annually

- ¹ List the operating parameters of the treatment / abatement system which control its function.
² List the equipment necessary for the proper function of the abatement / treatment system.
³ List the monitoring of the control parameter to be carried out.

TABLE F.1(i): abatement / treatment control

Emission point reference number: A2-5 Proposed

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up
Extracted Fume	Activated Carbon Adsorption	6 monthly Filter discarb cell exchange Preventative maintenance system	None	Additional Filter

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Fume Sampling	Target VOC Propan-2-ol VOC Screen Dibutyltin	Charcoal Adsorption method BS EN 13649	Annually

¹ List the operating parameters of the treatment / abatement system which control its function.

² List the equipment necessary for the proper function of the abatement / treatment system.

³ List the monitoring of the control parameter to be carried out.

TABLE F.2(i) : EMISSIONS MONITORING AND SAMPLING POINTS

(1 table per monitoring point)

Emission Point Reference No. : A2-1

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Particulate Matter Rubber Fume	Annually	Accessible at Height	BS 3405	Condensation

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Emission Point Reference No. : A2-2

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Particulate Matter Rubber Fume	Annually	Accessible at Height	BS 13284	Iso-kinetic

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Emission Point Reference No. : A2-3

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Particulate Matter Rubber Fume	Annually	Accessible at Height	BS 3405	Condensation

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Emission Point Reference No. : A2-4

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Particulate Matter Rubber Fume	Annually	Accessible at Height	BS 3405	Condensation

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Emission Point Reference No. : A2-5 Proposed

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Target VOC Propan-2-ol VOC Screen Dibutyltin	To be determined	Accessible at Height	BS 13649	Charcoal adsorption

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TABLE F.2(ii): AMBIENT ENVIRONMENT MONITORING AND SAMPLING POINTS (1 table per monitoring point)

Monitoring Point Reference No: Not Applicable

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method / technique

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Table G.1(i) Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site

Ref. N ^o or Code	Material/ Substance ⁽¹⁾	CAS Number	Danger ⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R ⁽³⁾ - Phrase	S ⁽³⁾ - Phrase	Hazard Statement ⁽⁴⁾
	<u>Proposed</u>								
	K1 Gleitmo SFL 9680	64742-48-9	Flammable/Harmful	0.005	0.062	Coating	10,21,20,38,65,67,	36/37,62	
	K2 Gleitmo SFL 9680	67-63-0	Highly Flammable/Irritant	0.001	0.009	Coating	11,36,67	16,26,33,60,9	
	K3 Gleitmo SFL 9680	7758-7	Toxic Dangerous to Env.	0.001	0.005	Coating	60,61,38,51,5,3,68.22.4,8,25	53,26,28,36,3,7,39,45,5,7,61	
	<u>Existing</u>								
	Corrosion Inhibitor Lorro 60/90	111-46-6	Harmful	0.18	0.72	Manufacturing	22,60,61	35,61	
	Getren M2220	9043-30-5	Irritant	0.050	0.40	Coating	No data	No data	
	Gleitmo 300	64742-49-0	Highly Flammable/Irritant	0.06	0.18	Manufacturing	10,66,65,67,1	No data	
	Talc Powder	14807-96-6	No Data	0.10	0.20	Manufacturing	No data	No data	
	W-3551B	No data	No data	0.414	4.50	Manufacturing	No data	No data	
	W-4080	No data	No Data	0.414	3.50	Manufacturing	No data	No data	
	EWO Mold 6450	556-67-2	Harmful	0.050	0.150	Manufacturing	No data	No data	
	MOS Pulver	No data	No Data	0.005	0.025	Manufacturing	No Data	No Data	
	Oxiso O5 S	64741-	Hazardous to Aquatic	0.60	5.40	Coating	53	No Data	

		65-7							
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- Notes:
1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
 2. Article 2(2) of S.I. No. 116/2003
 3. Schedules 9 and 10 of S.I. No. 62/2004 (as amended by S.I. No. 271/2008)
 4. EC Regulation 1272/2008 (Chemicals Act 2008 (13 of 2008) and 2010)

**Table G.1(ii) Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site
Not applicable**

Ref. N ^o or Code	Material/ Substance ⁽¹⁾	Odour			Pollutants (Tick and specify Group/Family Number)			
		Odourous Yes/No	Description	Threshold $\mu\text{g}/\text{m}^3$	EC EO (Surface Waters) Regulations 2009		EC EO Groundwater Regulations 2010	
					Specific pollutants	Priority (hazardous) substances	Hazardous ¹	Non-hazardous ¹

Note 1: The EPA Classification of Hazardous and Non-Hazardous Substances in Groundwater, December 2010

TABLE H.1(i): WASTE - Generation of waste at the installation and its management

Waste description	EWC Code (use asterisk to indicate whether hazardous waste or not)	Category per Animal By-products Regulation 1069/2009	Source of waste	Quantity generated (tonnes per month)	Location of recovery of disposal (on-site, off-site, exported)	Method of recovery or disposal (e.g. recycling, energy recovery, other incineration, landfill)
sodium and potassium hydroxide	06 02 04	N/A	Maintenance	0.682	Abroad	Recovery
other still bottoms and reaction residues			Manufacturing			Incineration
Ovenwaste	07 02 08			4.872	Abroad	
wastes not otherwise specified Bead Blast	07 02 99		Maintenance	3.134	Offsite in Ireland	Incineration
wastes not otherwise specified	07 02 99		Maintenance	188.9	Abroad	Recycled
wastes not otherwise specified	07 02 99		Maintenance	2.187	Offsite in Ireland	Recycled
other engine, gear and lubricating oils	13 02 08		Manufacturing	2.136	Offsite in Ireland	Recycled
plastics	20 01 39		Manufacturing	6.9	Offsite in Ireland	Recycled
packaging containing residues of or contaminated by dangerous substances	15 01 10		Manufacturing	0.539	Abroad	Incineration
absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	15 02 02		Maintenance	4.91	Abroad	Incineration
aqueous liquid wastes containing dangerous substances	16 10 01		Maintenance	0.287	Abroad	Recovered

iron and steel	17 04 05		Maintenance	1.2	Offsite in Ireland	Recycled
biodegradable kitchen and canteen waste	20 01 08		Canteen waste	2.76	Offsite in Ireland	Recycled
gases in pressure containers (including halons) containing dangerous substances	16 05 04		Manufacturing	0.06	Abroad	Recycled
discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	20 01 36		Manufacturing . Administration	0.72	Offsite in Ireland	Recovered
			Manufacturing . Administration			Recycled
Paper & Cardboard	20 01 01			6.7	Offsite in Ireland	
Mixed municipal waste	20 03 01		Canteen Waste	121.8	Offsite in Ireland	landfill

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TABLE H.1(ii) WASTE - Waste Acceptance (type and quantities) Not Applicable

Rows should be added to the table as necessary.

EWC Code	Waste description (the <u>actual</u> description of the waste, not the text accompanying the EWC code)	Tonnes per annum (existing)	Tonnes per annum (proposed)

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Table I.2(i) SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: Not Applicable

Parameter	Results (mg/l)				Sampling method ² (grab, drift etc.)	Normal Analytical Range ²	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Total Ammonia as N							
Chemical oxygen demand							
Biochemical oxygen demand							
Dissolved oxygen DO							
Orthophosphate as P							
Nitrate as N							
Nitrite as N							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO ₄							

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Table I.4(i) GROUNDWATER QUALITY
 (Sheet 1 of 2) Monitoring Point/ Grid Reference: **Not applicable**

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
pH							
Temperature							
Electrical conductivity EC							
Total Ammonium as N							
Nitrite as N							
Nitrate as N							
Orthophosphate as P							
Dissolved oxygen DO							
Residue on evaporation (180°C)							
Aluminium Al							
Arsenic As							
Boron B							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Cyanide Cn, total							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO ₄							

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Groundwater Quality (sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Phosphate PO ₄							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
Arsenic As							
Barium Ba							
Boron B							
Fluoride F							
Phenol							
Phosphorus P							
Selenium Se							
Silver Ag							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

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TABLE I.4(ii): LIST OF OWNERS/FARMERS OF LAND Not applicable

Land Owner	Townlands where landspreading	Map Reference	Fertiliser P requirement for each farm
			*NMP must take account of on-farm slurry

Total P requirement of the client List _____

TABLE I.4(ii): LANDSPREADING Not Applicable

Land Owner/Farmer _____

Map Reference _____

Field ID	Total Area (ha)	(a) Usable Area (ha)	Soil P Test Mg/l	Date of P test	Crop	P Required (kg P/ha)	Volume of On-Farm Slurry Returned (m ³ /ha)	Estimated P in On-Farm Slurry (kg P/ha)	(b) Volume to be Applied (m ³ /ha)	P Applied (kg P/ha)	Total Volume of imported slurry per plot (m ³)

TOTAL VOLUME THAT CAN BE IMPORTED ON TO THE FARM:

Concentration of P in landspread material	- kg P/m ³
Concentration of N in landspread material	- kg N/m ³

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Table I.7(i): AMBIENT & BACKGROUND NOISE ASSESSMENT

Need to carry out an assessment for tonal and impulsive noise⁴

	National Grid Reference (6N, 6E)	Sound Pressure Levels (dB)					
		L _{Ass}		L _{A10}		L _{A90}	
		Ambient	Background ²	Ambient	Background ²	Ambient	Background ²
1. SITE BOUNDARY³							
Location 1: NML3							
Daytime			59.7		60.6		58.0
Daytime			57.2		57.3		54.8
Daytime			59.6		60.3		55.4
Night-time			53.3		55.3		44.9
Night-time			46.3		47.9		43.5
Location 2: NML4							
Daytime			57.0		59.8		52.8
Daytime			58.2		61.1		52.2
Daytime			61.6		65.0		53.3
Night-time			56.0		56.5		53.7
Night-time			53.7		54.2		53.1
Location 3:							
Location 4:							
2. NOISE SENSITIVE LOCATIONS³							
Location 1: NSL 1							
Daytime			44.2		46.6		40.3
Daytime			41.8		42.7		39.6
Daytime			43.8		44.2		40.3
Night-time			42.9		43.9		40.2
Night-time			58.0		59.4		40.8

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Location 2: NSL 2							
Daytime			49.6		51.7		43.1
Daytime			52.0		46.9		46.9
Daytime			50.7		46.1		46.1
Night-time			53.3		55.3		44.9
Night-time			46.3		47.9		43.5
Location 2:							
Location 3:							
Location 4:							

1. Refer to section 5 of the Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012).
2. Background noise levels should be determined in the absence of site specific noise. Where an installation is operational on a 24hr basis, estimates may be given for background noise levels, but this should be noted.
3. All locations should be identified on accompanying drawings.

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