

Facility Information Summary

AER Reporting Year	2017
Licence Register Number	W0267-01
Name of site	Hi-Volt Ireland Ltd
Site Location	Ballyduff, Thurles, Co. Tipperary
NACE Code	3812
Class/Classes of Activity	4.13
National Grid Reference (6E, 6 N)	

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.**

Acceptance and transfer of scap metal and scrap batteries only.

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.

A.Russell	30/05/2018
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0267-01 Year 2017

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

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
	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

AIR-summary template	Lic No:	W0267-01	Year	2017
Continuous Monitoring				

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)	SELECT	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	SELECT	

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0267-01 Year 2017

		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 licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections	No
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 <u>only any evidence of contamination noted during visual inspections</u>	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
SA01	onsite	SELECT	COD	17/01/2017	30.95	All values < ELV	24	mg/L	yes	
SA01	onsite	SELECT	pH	17/01/2017	8.28	All values < ELV	8	pH units	yes	
SA01	onsite	SELECT	Mineral oils	17/01/2017	10	All values < ELV	<10	µg/L	yes	
SA01	onsite	SELECT	Suspended Solids	17/01/2017	114.4	All values < ELV	8	mg/L	yes	
SA01	onsite	SELECT	COD	21/02/2017	30.95	All values < ELV	<5	mg/L	yes	
SA01	onsite	SELECT	pH	21/02/2017	8.28	All values < ELV	8.1	pH units	yes	
SA01	onsite	SELECT	Mineral oils	21/02/2017	10	All values < ELV	<10	µg/L	yes	
SA01	onsite	SELECT	Suspended Solids	21/02/2017	114.4	All values < ELV	40	mg/L	yes	
SA01	onsite	SELECT	COD	29/05/2017	30.95	All values < ELV	3000	mg/L	yes	Unknown source of High COD
SA01	onsite	SELECT	pH	29/05/2017	8.28	All values < ELV	8.3	pH units	yes	
SA01	onsite	SELECT	Mineral oils	29/05/2017	10	All values < ELV	<10	µg/L	yes	
SA01	onsite	SELECT	Suspended Solids	29/05/2017	114.4	All values < ELV	<5	mg/L	yes	
SA01	onsite	SELECT	COD	19/06/2017	30.95	All values < ELV	16	mg/L	yes	
SA01	onsite	SELECT	pH	19/06/2017	8.28	All values < ELV	8.2	pH units	yes	
SA01	onsite	SELECT	Mineral oils	19/06/2017	10	All values < ELV	<10	µg/L	yes	
SA01	onsite	SELECT	Suspended Solids	19/06/2017	114.4	All values < ELV	<10	mg/L	yes	
SA01	onsite	SELECT	COD	24/07/2017	30.95	All values < ELV	23	mg/L	yes	
SA01	onsite	SELECT	pH	24/07/2017	8.28	All values < ELV	7.5	pH units	yes	
SA01	onsite	SELECT	Mineral oils	24/07/2017	10	All values < ELV	<10	µg/L	yes	
SA01	onsite	SELECT	Suspended Solids	24/07/2017	114.4	All values < ELV	<5	mg/L	yes	

*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	SELECT	Additional information
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box External/Internal Lab Assessment of Quality checklist Assessment of results checklist	SELECT	

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
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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?

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

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

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

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

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

- Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test- all 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 Please provide integrity testing frequency period
 - 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
 - 3 How many bunds are on site?
 - 4 How many of these bunds have been tested within the required test schedule?
 - 5 How many mobile bunds are on site?
 - 6 Are the mobile bunds included in the bund test schedule?
 - 7 How many of these mobile bunds have been tested within the required test schedule?
 - 8 How many sumps on site are included in the integrity test schedule?
 - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 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?

Yes	be carried out once infrastructure works are complete
3 years	
Yes	
See above	
0	
No	
0	
0	
0	
N/A	
N/A	
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
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

Commentary

SELECT	
SELECT	
SELECT	

- 15 Are channels/transfer systems to remote containment systems tested? [bunding and storage guidelines](#)
- 16 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

- Are you required by your licence to undertake integrity testing * on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**
- 2 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

SELECT	
SELECT	

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

Groundwater/Soil monitoring template	Lic No: W0267-01	Year: 2017
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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 Groundwater monitoring template 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
9	Has any type of risk assessment been carried out for the site?	yes
10	Has a Conceptual Site Model been developed for the site?	N/A
11	Have potential receptors been identified on and off site?	N/A
12	Is there evidence that contamination is migrating offsite?	N/A

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER

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
Monthly	GW1	pH		Biannually	8.2	8	SELECT	N/A		no
Monthly	GW1	Conductivity		Biannually	510	490	SELECT	800-1875		no
Monthly	GW1	Chloride		Biannually	25	21	mg/l	24-187.5		no
Monthly	GW1	Total Ammonia		Biannually	0.14	0.084	mg/l	N/A		no
Monthly	GW1	Total Nitrogen		Biannually	4.3	2.9	mg/l	N/A		no
Monthly	GW1	Calcium		Biannually	90	66	mg/l	N/A		no
Monthly	GW1	Potassium		Biannually	3.2	2	mg/l	N/A		no
Monthly	GW1	Magnesium		Biannually	29	26	mg/l	N/A		no
Monthly	GW1	Sodium		Biannually	14	9.2	mg/l	150		no
Monthly	GW1	Boron		Biannually	33	21.5	ug/l	750		no
Monthly	GW1	Cadmium		Biannually	0	0	ug/l	3.75		no
Monthly	GW1	Chromium		Biannually	14	3.8	ug/l	37.5		no
Monthly	GW1	Copper		Biannually	2.5	1.1	ug/l	1500		no
Monthly	GW1	Iron (total)		Biannually	460	290	ug/l	N/A		no
Monthly	GW1	Mercury		Biannually	0	0	ug/l	0.75		no
Monthly	GW1	Manganese		Biannually	260	230	ug/l	N/A		no

Groundwater/Soil monitoring template			Lic No:	W0267-01	Year	2017				
Monthly	GW1	Lead		Biannually	1.3	0.3	ug/l	18.75		no
Monthly	GW1	Zinc		Biannually	11	6.9	ug/l	N/A		no
Monthly	GW1	List I/II Organic compounds		Biannually	<LOD	<LOD	ug/l	N/A		no
Monthly	GW1	BTEX		Biannually	<LOD	<LOD	ug/l	N/A		no
Monthly	GW1	Mineral Oil		Biannually	<LOD	<LOD	ug/l	N/A		no

.+ where average indicates arithmetic mean

0

.++ 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
Monthly	GW2	pH		Biannually	8.1	7.80	SELECT	N/A		no
Monthly	GW2	Conductivity		Biannually	710	685.00	SELECT	800-1875		no
Monthly	GW2	Chloride		Biannually	24	23.00	mg/l	24-187.5		no
Monthly	GW2	Total Ammonia		Biannually	0.047	0.01	mg/l	N/A		no
Monthly	GW2	Total Nitrogen		Biannually	16	11.60	mg/l	N/A		no
Monthly	GW2	Calcium		Biannually	130	120.00	mg/l	N/A		no
Monthly	GW2	Potassium		Biannually	3.3	2.00	mg/l	N/A		no
Monthly	GW2	Magnesium		Biannually	22	20.20	mg/l	N/A		no
Monthly	GW2	Sodium		Biannually	7.2	6.10	mg/l	150		no
Monthly	GW2	Boron		Biannually	52	43.00	ug/l	750		no
Monthly	GW2	Cadmium		Biannually	0	0.00	ug/l	3.75		no
Monthly	GW2	Chromium		Biannually	16	4.30	ug/l	37.5		no
Monthly	GW2	Copper		Biannually	8	4.00	ug/l	1500		no
Monthly	GW2	Iron (total)		Biannually	550	370.00	ug/l	N/A		no
Monthly	GW2	Mercury		Biannually	0	0.00	ug/l	0.75		no
Monthly	GW2	Manganese		Biannually	13	8.75	ug/l	N/A		no
Monthly	GW2	Lead		Biannually	2.4	0.60	ug/l	18.75		no
Monthly	GW2	Zinc		Biannually	17	13.30	ug/l	N/A		no
Monthly	GW2	List I/II Organic compounds		Biannually	<LOD	<LOD	ug/l	N/A		no
Monthly	GW2	BTEX		Biannually	<LOD	<LOD	ug/l	N/A		no
Monthly	GW2	Mineral Oil		Biannually	<LOD	<LOD	ug/l	N/A		no

*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 \(EPA 2013\)](#).

Groundwater/Soil monitoring template Lic No: W0267-01 Year 2017

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

Groundwater/Soil monitoring template

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2017

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:

W0267-01

Year

2017

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary	
1	ELRA initial agreement status	Submitted and not agreed by EPA;	
2	ELRA review status	Review required and not completed;	
3	Amount of Financial Provision cover required as determined by the latest ELRA	€124,000	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	€6,500,000	
6	Financial Provision for ELRA - type	Environmental Impairment Liability insurance	
7	Financial provision for ELRA expiry date	31/12/2014	
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA	
9	Closure plan review status	Review required and not completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	€200,000	
12	Financial Provision for Closure - type	Other please specify	Deferred income
13	Financial provision for Closure expiry date	N/A	

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	W0267-01	Year	2017
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	EMS maintained as per waste licence conditions.		
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	No			
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
Additional improvements	Enhance environmental tr	50	Training and new procedures	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Minimise waste retention	30	Increased turnaround time	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Minimise waste production	30	Better work practices	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Minimise water use	30	Better work practices	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Minimise waste handling	30	Better work practices	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Enhance waste segregation	30	Waste oil collection	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Minimise energy use	30	Better work practices	Section Head	Improved Environmental Management Practices

Noise monitoring summary report Lic No: W0267-01 Year: 2017

- 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? Yes
[Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan? No
- 4 When was the noise reduction plan last updated? Enter date
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{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)?
16/02/2017	09:16-09:46	N1		46	37.3	43.3	83	No	SELECT	Forklift operating at 50r	Yes
16/02/2017	10:22-10:52	N1		48.1	41.6	78.7	71.8	No	SELECT	operations in new batte	Yes
16/02/2017	12:39-13:09	N1		45.5	40.5	47.2	78	No	SELECT	Off site hedge cutting	Yes
16/02/2017	10:54-11:24	N2		55.3	44.3	57.6	82.8	No	SELECT	Sorting and packing bat	No
16/02/2017	12:04-12:34	N2		50.5	40.9	78.7	78.7	No	SELECT	FLT moving on site,	Yes
16/02/2017	14:01-14:31	N2		50	44.1	53.1	73.5	No	SELECT	Small waste loads arriv	No
16/02/2017	15:51-16:21	N3		49.9	39.7	48.9	74.6	No	SELECT	Offsite local rd access tr	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?

nothing**

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

Any additional comments? (less than 200 words)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
 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 \(LIEN\)](#)
- 2 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 3

Additional information

Enter date of audit	Completed once all infrastructure is in place.
No	
No	

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)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	11516	11602		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
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 ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater	232	218			218		
Surface water							
Public supply							
Recycled water							
Total							

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

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

Resource Usage/Energy efficiency summary	Lic No: W0267-01	Year	2017
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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					

WASTE SUMMARY	Lic No:	W0267-01	Year	2017
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

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 **1 to be captured through PRTR reporting**)
 If yes please enter details in table 1 below

Additional Information	
Yes	

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	
No	

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

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	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 -
1980	13 02 08*	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	Waste oil	100.69	580.2	-476%	N/A		R13-Storage of waste pending an	24	
12000	16 01 22	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	ELV motors	22.26	29	-30%	Reduced business		R13-Storage of waste pending an	3	
5040	16 06 01*	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Waste batteries	983.76	1228.2	-25%			R13-Storage of waste pending an	36.9	
	16 08 01	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Waste catalytic convertors	0.41	0.2	51%	Reduced business		R13-Storage of waste pending an	0.11	
12000	17 04 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Waste C+D copper	29.87	19.4	35%	Reduced business		R13-Storage of waste pending an	1.9	
	17 04 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Waste C+D Aluminium	37.37	30.4	19%	Increased business		R13-Storage of waste pending an	1.3	
	17 04 03	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Waste C+D Lead	20.3	12.2	40%	Reduced business		R13-Storage of waste pending an	1.4	
	17 04 05	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Waste C+D metals	802.13	1032	-29%			R13-Storage of waste pending an	8.2	
	17 04 11	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Waste C+D cabling	40.99	39.7	3%	Increased business		R13-Storage of waste pending an	3.1	
	16 01 07*	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Waste oil filters	0	7.1	#DIV/0!	Increased business		R13-Storage of waste pending an	0	
	16 06 02*	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Waste batteries	0	3.8	#DIV/0!	Increased business		R13-Storage of waste pending an	0	

WASTE SUMMARY

Lic No:

W0267-01

Year

2017

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	

Comments on
liner type



[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR 2017

1. FACILITY IDENTIFICATION

Parent Company Name	Hi-Volt Ireland Limited
Facility Name	Hi-Volt Ireland Limited
PRTR Identification Number	W0267
Licence Number	W0267-01

Classes of Activity

No. **class_name**

-|Refer to PRTR class activities below

Address 1	Ballyduff (townland Shanballyduff and Piercetown)
Address 2	Thurles
Address 3	
Address 4	
	Tipperary
Country	Ireland
Coordinates of Location	-7.72012 52.70159
River Basin District	IESE
NACE Code	3812
Main Economic Activity	Collection of hazardous waste
AER Returns Contact Name	Antoinette
AER Returns Contact Email Address	antoinette@hi-volt.net
AER Returns Contact Position	Env Officer
AER Returns Contact Telephone Number	0504 34946
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	Change in volume due to reduced business
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General

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

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4. 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)?	
---	--

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

Additional Data Requested from Landfill operators

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

Landfill:	Hi-Volt Ireland Limited				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

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

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0267 | Facility Name : Hi-Volt Ireland Limited | Filename : 9fd2c176394b4e0a877f550f9e

24/06/2018 15:24

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

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

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

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

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

METHOD			Please enter all quantities
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

METHOD			Please enter all quantities
M/C/E	Method Used		
	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0267 | Facility Name : Hi-Volt Ireland Limited | Filename : 9fd2c176394b4e0a877f550f9a9d7870.W0267_2017_2EB01D.xls | Return Year : 2017 |

24/06/2018 15:24

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	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		Non Haz Waste: Address of Recover/Disposer					
To Other Countries	16 01 22	No	20.08	components not otherwise specified	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			
To Other Countries	16 06 01	Yes	1103.54	lead batteries spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)	R4	M	Weighed	Abroad	Envirowales,4296277		Rassan Industrial Estate,,Blaenan,NP2 35SD,United Kingdom		Envirowales,4296277,Rassan Industrial estate,,Blaenan,NP2 35SD,United Kingdom	Rassan Industrial estate,,Blaenan,NP2 35SD,United Kingdom
To Other Countries	16 08 01	No	0.91	platinum (except 16 08 07)	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			
To Other Countries	17 04 01	No	25.88	copper, bronze, brass	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			
Within the Country	17 04 01	No	2.4	copper, bronze, brass	R13	M	Weighed	Offsite in Ireland	McGinley Metal,WFP-SO-14-108-02		Oakfield Rd,,Carraroe,,Ireland			
Within the Country	17 04 02	No	31.72	aluminium	R13	M	Weighed	Offsite in Ireland	Clearcircle Ltd,WFP-LKC-11-001-01		Ballysimon Rd,,Limerick,,Ireland			
To Other Countries	17 04 02	No	13.55	aluminium	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			
To Other Countries	17 04 03	No	18.43	lead	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			
Within the Country	17 04 05	No	816.97	iron and steel cables other than those mentioned in 17 04	R13	M	Weighed	Offsite in Ireland	Clearcircle Ltd,WFP-LKC-11-001-01		Ballysimon Rd,,Limerick,,Ireland			
Within the Country	17 04 11	No	0.72	10 cables other than those mentioned in 17 04	R13	M	Weighed	Offsite in Ireland	Clearcircle Ltd,WFP-LKC-11-001-01		Ballysimon Rd,,Limerick,,Ireland			
To Other Countries	17 04 11	No	50.65	10	R13	M	Weighed	Abroad	FJ Church,EAWML 80771		Manor Way,,Essex,RM 13 8RH,United Kingdom			

* 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](#)

NACE_Group	NACE_SubGroup	NACE_Code
12	0	0
36	0	0
37	0	0
39	0	0
75	0	0
92	0	0
97	0	0
99	0	0
02	1	0
05	1	0
06	1	0
07	1	0
09	1	0
13	1	0
16	1	0
19	1	0
21	1	0
24	1	0
29	1	0
41	1	0
49	1	0
50	1	0
51	1	0
52	1	0
53	1	0
55	1	0
56	1	0
60	1	0
61	1	0
68	1	0
69	1	0
70	1	0
74	1	0
78	1	0
80	1	0
81	1	0
85	1	0
86	1	0
87	1	0
88	1	0
98	1	0
02	2	0
05	2	0
06	2	0
10	2	0
13	2	0
14	2	0
15	2	0
18	2	0
19	2	0
20	2	0
21	2	0
23	2	0
24	2	0
26	2	0