

Environment Agency permitting decisions

Environment Agency initiated variation

We have decided to issue an Environment Agency initiated variation for Port Clarence Waste Recovery Park operated by Augean Treatment Limited.

The variation number is EPR/YP3234XR/V002.

We consider in reaching that decision we have taken into account all relevant considerations and legal requirements and that the permit will ensure that the appropriate level of environmental protection is provided.

Purpose of this document

This decision document:

- explains how the Environment Agency initiated variation has been determined
- provides a record of the decision-making process
- shows how all relevant factors have been taken into account
- justifies the specific conditions in the permit other than those in our generic permit template.

Structure of this document

- Key issues
- Annex 1 the decision checklist

Key issues of the decision

Industrial Emissions Directive (IED)

This variation implements the changes imposed by The Environmental Permitting (England and Wales) (Amendment) Regulations 2013 which transpose the requirements of the Industrial Emissions Directive (IED).

Consolidation of site permits

This variation also consolidates two adjacent sites, Port Clarence Waste Recovery Park (EPR/YP3234XR) and Port Clarence Treatment Facility (EPR/QP3031TY). Both of the permits are operated by Augean Treatment Limited.

Multi-operator installation

Due to the changes enforced by the Industrial Emissions Directive, the landfill gas engines located on Port Clarence Waste Recovery Park are no longer a

listed activity and therefore have become a directly associated activity to the adjacent landfills.

The adjacent landfills are operated by Augean Northern Limited which is a sister company to Augean Treatment Limited. Thus, Port Clarence Waste Recovery Park, Port Clarence Hazardous Landfill (EPR/BV1399IT) and Port Clarence Non-hazardous Landfill (EPR/BV1402IC) will now be a multi-operator installation.

Annex 1: decision checklist

This document should be read in conjunction with the agreed Environment Agency variation request form and permit/ notice.

Aspect considered	Justification / Detail	Criteria met Yes
The facility		
The regulated facility (installation)	<p>The extent/nature of the facilities taking place at the site required clarification.</p> <p>The decision on the facility was taken in accordance with RGN2 - Understanding the meaning of regulated facility.</p> <p>The regulated facility is an installation which comprises the following activities listed in Part 2 of Schedule 1 to the Environmental Permitting Regulations and the following directly associated activities.</p> <p>AR1 – Waste Wood Energy Recovery</p> <ul style="list-style-type: none"> •S1.2 A (d): Gasification or liquefaction of coal or other fuels in installations with a total rated thermal input of 20 megawatts or more. <ul style="list-style-type: none"> R1 – Gasification of wood to produce gas which is in turn burned to produce electricity; D9 – Treatment of Non Hazardous waste; D15 – Storage of Hazardous waste prior and post treatment, prior to disposal; D13 – Mixing and Blending of waste; and R13 – Storage of Hazardous Waste prior to recovery •Section 1.1 B (b) (iii) : Burning any fuel in an appliance with a rated thermal input of greater than 20 megawatts, but less than 50 megawatts <ul style="list-style-type: none"> R1 – Burning of wood to produce steam and heat; D9 – Treatment of Non Hazardous waste; D15 – Storage of Hazardous waste prior and post treatment., prior to disposal; D13 – Mixing and Blending of waste; and R13 – Storage of Hazardous 	✓

Aspect considered	Justification / Detail	Criteria met Yes
	<p>Waste prior to recovery.</p> <p>AR2 (Plasma treatment)</p> <ul style="list-style-type: none"> •S5.1 A(1)(a): The incineration of hazardous waste in a waste incineration plant or waste co-incineration plant with a capacity exceeding 10 tonnes per day •S5.1A (1)(b): The incineration of non-hazardous waste in a waste incineration plant or waste co-incineration plant with a capacity exceeding 3 tonnes per hour. <p>AR3 (Thermal Desorption)</p> <ul style="list-style-type: none"> •S5.3 A (1) (a) (ii) – Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.3 A (1) (a) (ii) – Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico- chemical treatment •S5.4 A (1) (a) (ii) – Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico-chemical treatment •S5.3 A (1) (a) (iii) – Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing of hazardous waste prior to submission to of other activities listed in this section or S5.1 	<p>D10 – Incineration using plasma treatment;</p> <p>D9 – Treatment of hazardous waste;</p> <p>D9 – Treatment of Non Hazardous waste;</p> <p>D15 – Storage of Hazardous waste prior and post treatment., prior to disposal;</p> <p>D13 – Mixing and Blending of waste; and</p> <p>R13 – Storage of Hazardous Waste prior to recovery.</p> <p>R3 – Recovery of organics by heat treatment; and</p> <p>R5 – Recovery of contaminated soils.</p> <p>R3 – Recovery of organics by heat treatment; and</p> <p>R5 – Recovery of contaminated soils.</p> <p>D9 – Treatment of Non-Hazardous Wastes by Thermal Desorption in a facility with a capacity > 50 tonnes per day.</p> <p>D13 – Mixing and Blending of Wastes.</p>

Aspect considered	Justification / Detail	Criteria met Yes
	<ul style="list-style-type: none"> •S5.3 A (1) (a) (iii) – Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing of hazardous waste prior to submission to of other activities listed in this section or S5.1 •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes AR4 (Tank Farm) •S5.3 A (1) (a) (ii) - Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.4 A (1) (a) (ii) – Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico-chemical treatment. •S5.3 A (1) (a) (ii) - Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes AR5 (Effluent Treatment) 	<ul style="list-style-type: none"> R3 – Recovery of organic materials; and R5 – Recovery inorganic materials. R13 – Storage of hazardous waste, prior to recovery; and D15 – Storage of hazardous waste, prior to disposal. D9 – Conversion of Chrome-6 to Chrome-3; D9 – Cyanide oxidation; D9 – Neutralisation and Precipitation of hazardous waste; and D9 – Filtration/separation of hazardous waste. D9 – Neutralisation and Precipitation of non-hazardous waste; and D9 – Filtration/separation of non-hazardous waste. R3 - Recovery of oil by heat, centrifugation, and filtration; and R3 - Phase separation of oil/water/solvent mixtures. R13 – Storage of hazardous waste, prior to recovery; and D15 – Storage of hazardous waste, prior to disposal.

Aspect considered	Justification / Detail	Criteria met Yes
	<ul style="list-style-type: none"> •Section 5.3 A (1) (a) (i) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by biological treatment •Section 5.3 A (1) (a) (ii) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment. •Section 5.3 A (1) (a) (ii) Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment. •Section 5.3 A (1) (a) (iii) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing prior to submission to any of the other activities listed in this Section or in Section 5.1 •S5.4 A (1) (a) (i) - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by biological treatment •S5.4 A(1) (a) (ii) - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by 	<p>D8 – Treatment of effluent classed as hazardous in the aerobic phase; and</p> <p>D8 – Treatment of effluent classed as hazardous in the anaerobic phase.</p> <p>D9 – Treatment of effluent classed as hazardous in the aerobic phase;</p> <p>D9 – Treatment of effluent classed as hazardous in the anaerobic phase;</p> <p>D9 – Treatment of effluent through reverse osmosis or adsorption on to carbon;</p> <p>D9 – Treatment of effluent through settlement;</p> <p>D9 – Treatment of effluent through filtration; and</p> <p>R3 – Recovery of organic waste.</p> <p>D13 – Mixing and Blending of Wastes.</p> <p>D8 – Treatment of effluent classed as non-hazardous in the aerobic phase; and</p> <p>D8 – Treatment of effluent classed as non-hazardous in the anaerobic phase.</p> <p>D9 – Treatment of effluent through settlement; and</p> <p>D9 Treatment of effluent through</p>

Aspect considered	Justification / Detail		Criteria met
			Yes
	<p>physico-chemical treatment</p> <ul style="list-style-type: none"> •Section 5.3 A (1) (a) (i) – Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by biological treatment •S5.3 A (1) (a) (iii) – Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing of hazardous waste prior to submission to of other activities listed in this section or S5.1 •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes <p>AR6 (Anaerobic Digestion)</p> <ul style="list-style-type: none"> •Section 5.3 A (1) (a) (i) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by biological treatment •Section 5.3 A (1) (a) (i) Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by biological treatment •Section 5.3 A (1) (a) (iii) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing prior to submission to any other activities listed in this Section or in Section 5.1 	<p>filtration.</p> <p>D8 – Biological Treatment of waste in an aerobic phase; and D8 – Biological Treatment in the anaerobic phase.</p> <p>D13 – Mixing and Blending of Wastes.</p> <p>R13 – Storage of hazardous waste, prior to recovery; and D15 – Storage of hazardous waste, prior to disposal.</p> <p>D8 – Treatment of waste classed as hazardous in the anaerobic phase.</p> <p>R3 – Recovery of organic waste.</p> <p>D13 – Mixing and Blending of Wastes.</p>	

Aspect considered	Justification / Detail	Criteria met Yes
	<ul style="list-style-type: none"> •Section 5.4 A (1) (b) (i) – Disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day by biological treatment •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes AR7 (Waste Recovery Facility) •Section 5.3 A (1) (a) (ii) Recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •Section 5.3 A (1) (a) (ii) Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.4 A (1) (a) (ii) - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico chemical treatment •S5.4 A (1) (b) (iv) - Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day by treatment in shredders of metal waste 	<p>D8 – Treatment of waste classed as non hazardous in the anaerobic phase; and</p> <p>R3 – Recovery of organic waste.</p> <p>R13 – Storage of hazardous waste, prior to recovery; and</p> <p>D15 – Storage of hazardous waste prior to disposal.</p> <p>R3 - Recycling/reclamation of organic substances which are not used as solvents;</p> <p>R4 - Recycling/reclamation of metals and metal compounds;</p> <p>R5 - Recycling/reclamation of other inorganic compounds; and</p> <p>R3/R4 – Treatment of aerosol waste classed as hazardous.</p> <p>D9 – Treatment of aerosol waste classed as hazardous; and</p> <p>D9 – Treatment by washing, shredding, and crushing of waste classed as hazardous.</p> <p>D9 – Treatment by washing, shredding, and crushing of waste classed as non hazardous.</p> <p>D9 – Treatment by shredding, and crushing of waste classed as non hazardous; and</p> <p>R4 - Recycling/reclamation of metals and metal compounds.</p>

Aspect considered	Justification / Detail	Criteria met Yes
	<ul style="list-style-type: none"> •S5.3 A (1)(a) (iii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing prior to submission to any of the other activities listed in this Section or in Section 5.1 •S5.3 A (1) (a) (iv) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by repackaging prior to submission to any of the other activities listed in this Section or in Section 5.1 •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes AR8 (Waste Transfer Station) •S5.3 A (1) (a) (iii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by blending or mixing prior to submission to any of the other activities listed in this Section or in Section 5.1 •S5.3 A (1) (a) (iv) – Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by repackaging prior to submission to any of the other activities listed in this Section or in Section 5.1 •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity 	<ul style="list-style-type: none"> D13 – Mixing and Blending of Wastes; R3 – Mixing and Blending of Wastes; and R5 - Mixing and Blending of Wastes. D14 – Repacking of Wastes; R3 – Repacking of Wastes; and R5 - Repacking of Wastes. R13 – Storage of hazardous waste; and D15 – Storage of hazardous waste, prior to disposal prior to recovery. D13 – Mixing and Blending of Wastes. D14 – Repacking of Wastes. D15 – Storage of hazardous waste, prior to disposal; and R13 – Storage of hazardous

Aspect considered	Justification / Detail		Criteria met
			Yes
	<p>exceeding 50 tonnes</p> <p>AR9 (Soil Washing)</p> <ul style="list-style-type: none"> •S5.3 A (1) (a) (ii) : Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.3 A (1) (a) (ii) : Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.4A (1) (a) (ii): Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico chemical treatment •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes <p>AR10 (Waste Stabilisation)</p> <ul style="list-style-type: none"> •S5.3 A (1) (a) (ii): Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by physico-chemical treatment •S5.4A (1) (a) (ii) : Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico chemical treatment •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity 	<p>waste, prior to recovery.</p> <p>D9 - Physico-chemical treatment of hazardous waste in the soil washing plant.</p> <p>R3 - Physico-chemical treatment of hazardous waste in the soil washing plant;</p> <p>R4 - Recycling/reclamation of metals and metal compounds; and</p> <p>R5 - Recycling/reclamation of other inorganic compounds.</p> <p>D9 - Physico-chemical treatment of non hazardous waste in the soil washing plant.</p> <p>D15 – Storage of hazardous waste, prior to disposal; and</p> <p>R13 – Storage of hazardous waste, prior to recovery.</p> <p>D15 – Storage of hazardous waste, prior to disposal; and</p> <p>D9 – Physico-chemical treatment of hazardous waste by waste stabilisation .</p> <p>D9 - Physico-chemical treatment of hazardous waste in the waste stabilisation plant .</p> <p>D15 – Storage of hazardous waste, prior to disposal; and</p> <p>R13 – Storage of hazardous</p>	

Aspect considered	Justification / Detail		Criteria met
			Yes
	<p>exceeding 50 tonnes</p> <p>AR11 (Bio-remediation)</p> <ul style="list-style-type: none"> •S5.3 A (1) (a) (i): Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by Biological Treatment •S5.3 A (1) (a) (i1): Disposal of hazardous waste with a capacity exceeding 10 tonnes per day by Biological Treatment •S5.4 A (1) (b) (i): Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day by biological treatment <p>AR12 (Storage activity for AR9, AR10 and AR11)</p> <ul style="list-style-type: none"> •S5.6 A (1) (a) (i) – Temporary Storage of Hazardous Waste with a total capacity exceeding 50 tonnes <p>AR13</p> <ul style="list-style-type: none"> •S3.1 B (b) : Blending cement in bulk or using cement in bulk other than at a construction site, including the bagging of cement and cement mixtures, the batching of ready mixed concrete and the manufacture of concrete blocks and other cement products. <p>Directly Associated Activities</p>	<p>waste prior to recovery.</p> <p>D8 - Biological treatment of hazardous waste in the Bioremediation area.</p> <p>R5 – Biological treatment of hazardous waste in the soil washing plant.</p> <p>D8 - Biological treatment of non hazardous waste in the Bioremediation area; and R3 - Biological treatment of non hazardous waste in the Bioremediation area.</p> <p>D15 – Storage of hazardous waste, prior to disposal; and R13 – Storage of hazardous waste, prior to recovery.</p> <p>Cement Storage Silo.</p>	

Aspect considered	Justification / Detail		Criteria met
			Yes
	AR14	<ul style="list-style-type: none"> Storage of non hazardous wood materials 	Storage of non hazardous wood prior to mixing and blending, and burning as a fuel to produce steam and heat.
	AR15	<ul style="list-style-type: none"> Gas Storage 	Storage of gases from the installation and from the non hazardous and hazardous landfills, prior to treatment and burning as a fuel in AR4
	AR16	<ul style="list-style-type: none"> Gas Flare 	Flaring of gas for disposal in an appliance.
	AR17	<ul style="list-style-type: none"> Storage of non hazardous materials 	Storage of non hazardous materials prior to and post mixing and blending, and treatment by Thermal Desorption
	AR18	<ul style="list-style-type: none"> Storage of non hazardous materials 	Storage of non hazardous materials prior to mixing and blending, and treatment by Tank Farm process and post treatment.
	AR19	<ul style="list-style-type: none"> Storage of non hazardous materials 	Storage of non hazardous materials prior to mixing and blending, and treatment by Effluent Treatment process and post treatment.
	AR20	<ul style="list-style-type: none"> Storage of non hazardous materials 	Storage of non hazardous materials prior to mixing and blending, and treatment by Anaerobic digestion process and post treatment
	AR21	<ul style="list-style-type: none"> Storage of non hazardous materials 	Storage of non hazardous materials prior to mixing and blending, and treatment at the Waste Recovery Facility and post treatment.
	AR22	<ul style="list-style-type: none"> Waste Storage 	Storage of non hazardous materials prior to mixing and blending, and treatment at the Waste Transfer Station and post treatment.
	AR23	<ul style="list-style-type: none"> Electrical power generation 	Diesel generators

Aspect considered	Justification / Detail			Criteria met
				Yes
	AR24	<ul style="list-style-type: none"> • Surface water management 	Collection and recycling of surface and process water.	
	AR25	<ul style="list-style-type: none"> • Handling of the Raw Materials 	Handling and storage of raw materials used in the treatment processes	
	AR26	<ul style="list-style-type: none"> • Management of waters arising from open storage area, road and treatment areas. 	Collection, storage, reuse and disposal of contaminated water	
	AR27	<ul style="list-style-type: none"> • R1 – Use principally as a fuel or other means to generate energy 	Burning for landfill gas in an appliance	
	<p>This permit applies to only one part of the installation. The names and permit numbers of the operators of other parts of the installation are detailed in the permit's introductory note.</p>			

Aspect considered	Justification / Detail	Criteria met								
		Yes								
The regulated facility (waste operations)	<p>The extent/nature of the facilities taking place at the site required clarification.</p> <p>The decision on the facility was taken in accordance with RGN 2 Understanding the meaning of regulated facility.</p> <p>The regulated facility is a waste operation at which the following recovery and disposal operations will be undertaken.</p> <table border="1"> <tr> <td>AR28 Indirect Thermal Desorption (Non- Hazardous)</td> </tr> <tr> <td> R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds. </td> </tr> <tr> <td>AR29 Tank Farm (Non-hazardous)</td> </tr> <tr> <td> R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds. </td> </tr> <tr> <td>AR30 Effluent Treatment (Non-hazardous)</td> </tr> <tr> <td>R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</td> </tr> <tr> <td>AR31 Waste Recovery Facility (Non-hazardous)</td> </tr> <tr> <td> R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic </td> </tr> </table>	AR28 Indirect Thermal Desorption (Non- Hazardous)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds.	AR29 Tank Farm (Non-hazardous)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds.	AR30 Effluent Treatment (Non-hazardous)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	AR31 Waste Recovery Facility (Non-hazardous)	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic	✓
AR28 Indirect Thermal Desorption (Non- Hazardous)										
R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds.										
AR29 Tank Farm (Non-hazardous)										
R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; and R5 - Recycling/reclamation of other inorganic compounds.										
AR30 Effluent Treatment (Non-hazardous)										
R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).										
AR31 Waste Recovery Facility (Non-hazardous)										
R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic										

Aspect considered	Justification / Detail	Criteria met
		Yes
	compounds.	
	AR32 Waste Transfer Station	
	R13 - Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); R3 - Recycling/reclamation of organic substances which are not used as solvents; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic compounds	
	AR33 Plasma Treatment	
	R3 - Recycling/reclamation of organic substances which are not used as solvents, less than 50 tonnes a day	
	AR34 Effluent Treatment	
	D13 – Mixing and Blending of Wastes prior to Effluent Treatment.	
	AR35 Waste Transfer Station (Non-hazardous)	
	D13 – Bulking of non hazardous waste; D14 – Repackaging of non Hazardous waste; D15 – Storage of non hazardous waste;	
	AR36 Soil Washing	
	R3 - Recycling/reclamation of organic substances which are not used as solvents less than 50 tonnes a day; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic compounds	
	AR 37 Bio-remediation	
	R3 - Recycling/reclamation of organic substances which are not used as solvents less than 50 tonnes a day; R4 - Recycling/reclamation of metals and metal compounds; and R5 - Recycling/reclamation of other inorganic compounds	

Aspect considered	Justification / Detail	Criteria met Yes
European Directives		
Applicable directives	<p>All applicable European directives have been considered in the determination of the Environment Agency initiated variation.</p> <p>Please also see the Key Issues section above.</p>	✓
The site		
Extent of the site of the facility	<p>The operator has provided a plan which we consider is satisfactory, showing the extent of the site of the facility including the location of the part of the installation to which this permit applies on that site.</p> <p>A plan is included in the permit and the operator is required to carry on the permitted activities within the site boundary.</p> <p>Please also refer to Key Issue section above.</p>	✓
Biodiversity, Heritage, Landscape and Nature Conservation	<p>The activities being carried out are within the relevant distance criteria of a site of heritage, landscape or nature conservation, and/or protected species or habitat .</p> <p>A full assessment of the activities and their potential to affect the site(s)/habitat has been carried out as part of the permitting process. We consider that the activities will not affect the features of the site/habitat.</p> <p>We have not formally consulted on the Environment Agency initiated variation. The decision was taken in accordance with our guidance.</p>	✓
The permit conditions		
Updating permit conditions during consolidation.	<p>We have updated previous permit conditions to those in the new generic permit template as part of permit consolidation. The new conditions have the same meaning as those in the previous permit(s).</p> <p>The operator has agreed that the new conditions are acceptable.</p>	✓

Aspect considered	Justification / Detail	Criteria met
		Yes
Raw materials (installations)	We have specified limits and controls on the use of raw materials and fuels.	✓
Waste types (installations)	<p>We have specified the permitted waste types, descriptions and quantities, which can be accepted at the regulated facility.</p> <p>We are satisfied that the operator can accept these waste for the following reasons</p> <ul style="list-style-type: none"> the operator has the necessary management systems in place ensure they are controlled; and the necessary risk assessments and site commissioning demonstrates that the site infrastructure complied to the standards to accept hazardous and non-hazardous wastes to the site for appropriate handling and treatment. <p>We have excluded the following wastes for the following reasons :</p> <p>Table S2.2 During the review of this permit the operator requested the waste code shown below. We have not included this as this waste is not suitable to be treated in the thermal desorption unit.</p> <p>05 07 01* wastes containing mercury</p> <p>Table S2.3 and S2.4 The following wastes have been removed as storage in the Waste Recovery facility and Waste Transfer station is not the best option for these wastes.</p> <p>18 01 08* cytotoxic and cytostatic medicines 18 01 09 medicines other than those mentioned in 18 01 08 18 02 07* cytotoxic and cytostatic medicines 18 02 08 medicines other than those mentioned in 18 02 07 20 01 31* cytotoxic and cytostatic medicines</p>	✓

Aspect considered	Justification / Detail	Criteria met Yes
	<p>Table S2.5</p> <p>We have added the limit “only liquid waste” to clarify the types of waste the operator can accept.</p> <p>The following wastes have been removed as treatment in the tank farm is not the best option for these wastes and there is a readily available alternative management route.</p> <p>01 01 01 wastes from mineral metalliferous excavation</p> <p>01 01 02 wastes from mineral non-metalliferous excavation</p> <p>01 03 04* acid-generating tailings from processing of sulphide ore</p> <p>01 03 05* other tailings containing dangerous substances</p> <p>01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05</p> <p>01 03 07* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals</p> <p>01 04 07* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals</p> <p>01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11</p> <p>01 04 13 wastes from stone cutting and sawing other than those mentioned in 01 04 07</p> <p>01 05 04 freshwater drilling muds and wastes</p> <p>01 05 05* oil-containing drilling muds and wastes</p> <p>01 05 06* drilling muds and other drilling wastes containing dangerous substances</p> <p>01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06</p> <p>01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06</p> <p>03 02 02* organochlorinated wood preservatives</p> <p>03 02 03* organometallic wood preservatives</p> <p>03 02 04* inorganic wood preservatives</p> <p>03 02 05* other wood preservatives containing dangerous substances</p> <p>03 03 09 lime mud waste</p> <p>03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10</p> <p>04 02 10 organic matter from natural products (for example grease, wax)</p> <p>05 01 02* desalter sludges</p> <p>05 01 03* tank bottom sludges</p>	

Aspect considered	Justification / Detail	Criteria met
		Yes
	05 01 04* acid alkyl sludges	
	05 01 05* oil spills	
	05 01 06* oily sludges from maintenance operations of the plant or equipment	
	05 01 07* acid tars	
	05 01 09* sludges from on-site effluent treatment containing dangerous substances	
	05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09	
	05 01 16 sulphur-containing wastes from petroleum desulphurisation	
	05 07 01* wastes containing mercury	
	05 07 02 wastes containing sulphur	
	10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	
	10 01 02 coal fly ash	
	10 01 03 fly ash from peat and untreated wood	
	10 01 04* oil fly ash and boiler dust	
	10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form	
	10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form	
	10 01 13* fly ash from emulsified hydrocarbons used as fuel	
	10 01 14* bottom ash, slag and boiler dust from co-incineration containing dangerous substances	
	10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14	
	10 01 16* fly ash from co-incineration containing dangerous substances	
	10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16	
	10 02 15 other sludges and filter cakes	
	10 04 05* other particulates and dust	
	10 04 06* solid wastes from gas treatment	
	10 04 07* sludges and filter cakes from gas treatment	
	10 11 05 particulates and dust	
	10 11 17* sludges and filter cakes from flue-gas treatment containing dangerous substances	
	10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17	
	10 11 19* solid wastes from on-site effluent treatment containing dangerous substances	
	10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19	
	10 12 11* wastes from glazing containing heavy metals	
	11 01 09* sludges and filter cakes containing dangerous	

Aspect considered	Justification / Detail	Criteria met Yes
	<p>substances</p> <p>11 01 10 sludges and filter cakes other than those mentioned in 11 01 09</p> <p>11 01 16* saturated or spent ion exchange resins</p> <p>12 01 20* spent grinding bodies and grinding materials containing dangerous substances</p> <p>16 02 09* transformers and capacitors containing PCBs</p> <p>16 02 10* discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09</p> <p>16 02 11* discarded equipment containing chlorofluorocarbons, HCFC, HFC</p> <p>16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)</p> <p>16 08 02* spent catalysts containing dangerous transition metals or dangerous transition metal compounds</p> <p>16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified</p> <p>18 01 09 medicines other than those mentioned in 18 01 08</p> <p>19 03 04* wastes marked as hazardous, partly stabilised</p> <p>19 03 05 stabilised wastes other than those mentioned in 19 03 04</p> <p>19 03 07 solidified wastes other than those mentioned in 19 03 06</p> <p>19 06 04 digestate from anaerobic treatment of municipal waste</p> <p>19 06 06 digestate from anaerobic treatment of animal and vegetable waste</p> <p>19 11 02* acid tars</p> <p>Table S2.6 We have increased the amount of waste that can be processed by the activity to 500,000 tonnes per year.</p> <p>Table S2.11 We have increased the amount of waste that can be processed by the activity to 350,000 tonnes per year.</p> <p>We have added the hazardous codes H8, H10, H11 and H13 to allow the operator to accept waste contaminated with nickel, lead and hydrocarbons, as this technique is beneficial in reducing amount of contamination in waste and therefore reducing the hazardous nature of the waste.</p>	

Aspect considered	Justification / Detail	Criteria met Yes
	<p>Additional waste codes have been inserted in to this table as the operator wishes to use the soil washing technique to be able to treat waste to enable greater recovery and diversion from landfill. Where waste requires to be landfilled, the washing technique in combination with other treatments on the site or alone can reduce the hazardous nature of the waste. The washing process will:-</p> <ul style="list-style-type: none"> • recover granular fractions and/or remove heavy metals; • can clean and segregate useful aggregate fractions; • recover granular fractions and reduce chloride within the waste. <p>The following wastes have been removed as treatment in the soil washing plant is not the best option for these wastes and there is a readily available alternative management route</p> <p>02 02 01 sludges from washing and cleaning 02 02 03 materials unsuitable for consumption or processing 02 02 04 sludges from on-site effluent treatment 02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation 02 03 02 wastes from preserving agents 02 03 04 materials unsuitable for consumption or processing 02 03 05 sludges from on-site effluent treatment 02 04 02 off-specification calcium carbonate 02 04 03 sludges from on-site effluent treatment 02 02 04 sludges from on-site effluent treatment 02 05 01 materials unsuitable for consumption or processing 02 05 02 sludges from on-site effluent treatment 02 06 01 materials unsuitable for consumption or processing 02 06 02 wastes from preserving agents 02 06 03 sludges from on-site effluent treatment 02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials 02 07 02 wastes from spirits distillation 02 07 03 wastes from chemical treatment 02 07 04 materials unsuitable for consumption or processing 02 07 05 sludges from on-site effluent treatment</p>	

Aspect considered	Justification / Detail	Criteria met Yes
	<p>Table S2.12</p> <p>Additional waste codes have been inserted in to this table as the operator wishes to use the stabilisation technique to be able to treat waste to enable greater recovery and diversion from landfill. Where waste requires to be landfilled, the stabilisation technique in combination with other treatments on the site or alone can reduce the hazardous nature of the waste. The stabilisation technique may be required to facilitate further processing or disposal. Stabilisation and partial stabilisation are methods of treatment which can reduce environmental impact of wastes by irreversible transformation or immobilisation of the hazardous substances (common heavy metal compounds)</p> <p>We made these decisions with respect to waste types in accordance with:-</p> <ul style="list-style-type: none"> • TGN WM2 – Hazardous waste • EPR 1.00 – How to comply with your environmental permit • SGN S5.06 – Guidance for Recovery and Disposal of Hazardous and Non Hazardous Wastes • Supplementary guidance: Treating waste by thermal desorption • Waste Framework Directive 	
Waste types (waste operations)	<p>We have specified the permitted waste types, descriptions and quantities, which can be accepted at the regulated facility.</p> <p>We are satisfied that the operator can accept these waste for the following reasons:-</p> <ul style="list-style-type: none"> • the operator has the necessary management systems in place ensure they are controlled; and • the necessary risk assessments and site commissioning demonstrates that the site 	✓

Aspect considered	Justification / Detail	Criteria met
		Yes
	<p>infrastructure complied to the standards to accept hazardous and non-hazardous wastes to the site for appropriate handling and treatment.</p> <p>We made these decisions with respect to waste types in accordance with:-</p> <ul style="list-style-type: none"> • EPR 1.00 – How to comply with your environmental permit • SGN S5.06 – Guidance for Recovery and Disposal of Hazardous and Non Hazardous Wastes • Waste Framework Directive 	
Pre-operational conditions	<p>We consider that we need to impose pre-operational conditions.</p> <p>The pre-operational conditions have been transposed from the previous two permits to this consolidated permit.</p> <p>Additional pre-operational conditions have been imposed for the wood waste gasification, plasma activities and effluent treatment plant to require the Operator to provide the Environment Agency with details that need to be established or confirmed during and/or after commissioning and to require the Operator to confirm that the details and measures proposed in the Application have been adopted, changed or implemented prior to the operation of the Installation.</p>	✓
Improvement conditions	<p>We consider that we need to impose improvement conditions.</p> <p>We have imposed improvement conditions to ensure that:</p> <ul style="list-style-type: none"> • appropriate management systems and management structures are in place and that sufficient financial, technical and manpower resources are available to the operator to ensure compliance with all the permit conditions. • appropriate measures are in place such that waste production will be avoided as far as possible, and 	✓

Aspect considered	Justification / Detail	Criteria met
		Yes
	<p>where waste is produced it will be recovered unless technically and economically impossible.</p> <ul style="list-style-type: none"> the operator's justification for their proposed waste disposal option shows that such waste that does arise from the installation that can not be recovered will be disposed of using a disposal method that avoids or reduces any impact on the environment. to require the Operator to provide the Environment Agency with details that need to be established or confirmed during and/or after commissioning 	
Operating techniques	<p>We have specified that the operator must operate the permit in accordance with referenced operating techniques.</p> <p>All the operating techniques have been transposed from the previous two permits to this consolidated permit.</p> <p>These are specified in the Operating Techniques table in the permit.</p>	✓
Emission limits	<p>We have decided that emission limits should be set for the parameters listed in the permit.</p> <p>The limits specified in Schedule 3 have been transposed from the previous permits.</p>	✓
Monitoring	<p>We have decided that monitoring should be carried out for the parameters listed in the permit, using the methods detailed and to the frequencies specified.</p> <p>The standard monitoring tables for landfill gas have been added as a result of Environment Agency Landfill Sector Review. These monitoring requirements have been imposed in order to simplify the monitoring requirements for the operator in line with the sector review on monitoring and reporting standards.</p> <p>We made these decisions in accordance with:-</p> <ul style="list-style-type: none"> EPR 1.00 – How to comply with your environmental 	✓

Aspect considered	Justification / Detail	Criteria met
		Yes
	<p>permit</p> <ul style="list-style-type: none"> EPR 5.02 - How to comply with your environmental permit, Additional guidance for: Landfill <p>All other monitoring requirements have been transposed from the previous two permits to this consolidated permit.</p>	
Reporting	<p>We have specified reporting in the permit. We made these decisions in accordance with</p> <ul style="list-style-type: none"> EPR 1.00 – How to comply with your environmental permit EPR 5.02 - How to comply with your environmental permit, Additional guidance for: Landfill SGN S5.06 – Guidance for Recovery and Disposal of Hazardous and Non Hazardous Wastes Supplementary guidance: Guidance for the storage of aerosols canisters and similar package wastes Supplementary guidance: Treating waste by thermal desorption Guidance on Best Available Treatment Recovery and Recycling Techniques (BATRR) and Electronic Equipment (WEEE): DEFRA Nov 2006 	✓
Operator Competence		
Environment management system	<p>There is no known reason to consider that the operator will not have the management systems to enable it to comply with the permit conditions. The decision was taken in accordance with RGN 5 on Operator Competence.</p>	✓
Technical competence	<p>Technical competency is required for activities permitted.</p> <p>The operator is a member of an agreed scheme.</p>	✓

Aspect considered	Justification / Detail	Criteria met
		Yes
Relevant convictions	<p>The National Enforcement Database has been checked to ensure that all relevant convictions have been declared.</p> <p>The operator satisfies the criteria in RGN 5 on Operator Competence.</p>	✓
Financial provision	There is no known reason to consider that the operator will not be financially able to comply with the permit conditions. The decision was taken in accordance with RGN 5 on Operator Competence.	✓