

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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Lafarge Tarmac Cement and Lime  
Limited

Aberthaw Works  
East Aberthaw  
Barry  
Vale of Glamorgan  
CF62 3ZR

Variation application number  
EPR/BL3986ID/V012

Permit number  
EPR/BL3986ID

# **Aberthaw Works**

## **Permit number EPR/BL3986ID**

### **Introductory note**

#### **This introductory note does not form a part of the notice**

The following notice gives notice of the variation of an environmental permit.

This variation is to allow the operator to use the Mineral Products Association's Code of Practice which will allow the site to accept and utilise specified waste types for use as alternative raw materials or fuels.

This variation revises the specifications for waste derived fuels including the removal of the group III metals specification in solid and liquid fuels and the renaming of fuels using generic nomenclature.

The variation includes a list of waste codes for materials that could be used as alternative fuels or raw materials subject to meeting the requirements of the risk assessments detailed in the Code of Practice and the operator's Environmental Management System.

The operator will not need to apply for a permit variation each time the site wishes to accept a waste listed in the permit regardless of whether or not the waste stream has been used at the site before.

The schedules specify the changes made to the original permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number

**Status log of the permit**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BL3986ID	Duly made 28/08/01	
Response to request for further information dated 12/10/01	Received 02/01/02	
Responses to request for further information dated 10/01/02	Received 31/07/02, 15/08/02 and 06/12/02	
Response to request for information dated 03/10/02	Received 21/10/02	
Permit BL3986ID	Determined 21/01/03	
Application for variation NP3437PH to use MBM as a substitute fuel	Duly made 27/07/04	
Response to Schedule 4 notice issued 30/07/04	Received 27/08/04	
Variation NP3437PH	Determined 10/12/04	
Application for variation JP3134SY implementing WID requirements	Duly made 21/03/05	
Response to request for further information dated 31/08/05	Received 21/09/05	
Response to request for further information dated 24/11/05	Received 25/11/05	
Response to request for further information dated 30/11/05	Received 30/11/05	
Variation JP3134SY	Determined 08/12/05	
Application for variation YP3736LY	Duly made 29/06/06	
Variation YP3736LY	Determined 12/07/06	
Application for variation EPR/BL3986ID/V005	Duly made 15/08/08	
Additional information	Received 26/08/08	
Variation EPR/BL3986ID/V005	Determined 19/09/08	
Variation EPR/BL3986ID/V006	Determined 02/09/2010	Environment Agency generated variation to cover Cement and Lime sector review
Application for variation EPR/BL3986ID/V007 to use SRF and tyres as substitute fuels	Duly made 04/07/11	

Variation EPR/BL3986ID/V007	Determined 30/08/2011	
Part surrender application EPR/BL3986ID/S008	Duly Made 01/05/2012	Application to surrender part of the site following cessation of quarrying works
Part surrender determined EPR/BL3983ID/S008	10/05/2012	Part surrender issued
Administrative variation EPR/BL3986ID/V009	15/05/2012	Issued
Notified of change of company name	23/09/2013	Name changed to Lafarge Tarmac Cement and Lime Limited.
Administrative Variation issued EPR/BL3986ID/V010	06/11/2013	Varied permit issued to Lafarge Tarmac Cement and Lime Limited.
NRW initiated variation EPR/BL3986ID/V011 issued	09/06/2014	Permit varied to reflect IED requirement on NOx emissions.
Variation Application EPR/BL3986ID/V012	Duly made	Application to adopt the MPA code of practice
Variation Application EPR/BL3986ID/V012 determined	22/12/14	Variation Issued.

End of introductory note

## Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

**Permit number**  
**EPR/BL3986ID**

issued to:

**Lafarge Tarmac Cement and Lime Limited** (“the operator”)

whose registered office is

**Portland House Bickenhill Lane**  
**Solihull**  
**Birmingham**  
**B37 7BQ**

company registration number **00066558**

to operate an Installation at

**Aberthaw Works**  
**East Aberthaw**  
**Barry**  
**Vale of Glamorgan**  
**CF62 3ZR**

to the extent set out in the schedules.

The notice shall take effect from 22/12/14.

Name

Date

	<b>22 Dec 2014</b>
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Authorised on behalf of Natural Resources Wales

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Table S1.2 is amended to the following:

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
PPC Application BL3986ID	All management and control techniques described in the application	Duly made 28/08/01
Response to request for further information dated 12/10/01	All management and control techniques described in the further information	Received 02/01/02
Responses to request for further information dated 10/01/02	All management and control techniques described in the further information	Received 31/07/02, 15/08/02 and 06/12/02
Response to request for information dated 03/10/02	All management and control techniques described in the further information	Received 21/10/02
Application for variation NP3437PH to use MBM as a waste derived fuel	All management and control techniques described in the application	Duly made 27/07/04
Response to Schedule 4 notice issued 30/07/04	All management and control techniques described in the response	Received 27/08/04
Application for variation JP3134SY implementing WID requirements	All management and control techniques described in the application	Duly made 21/03/05
Response to request for further information dated 31/08/05	All management and control techniques described in the further information	Received 21/09/05
Response to request for further information dated 24/11/05	All management and control techniques described in the further information	Received 25/11/05
Response to request for further information dated 30/11/05	All management and control techniques described in the further information	Received 30/11/05
Application for variation YP3736LY	All management and control techniques described in the application	Duly made 29/06/06
Application for variation EPR/BL3986ID/V005	All management and control techniques described in the application	Duly made 15/08/08
Further information	All management and control techniques described in the further information	Received 26/08/08
Application for variation EPR/BL3986ID/V007	All management and control techniques described in the application	Duly made 04/07/11
Mineral Products Association Code of Practice for the Use of Waste Materials in Cement and Dolomitic Lime Manufacture April 2014.	All	05/06/14

Table S2.1 is amended to the following:

<b>Table S2.1 Waste Specifications for the Cement and Lime Sector</b>								
<b>Parameters</b>	<b>Waste Derived Fuels (WDF)</b>							<b>Blended ARM</b>
	<b>Processed Sewage Pellets (PSP)</b>	<b>Solid Recovered Fuel (SRF)</b>	<b>Meat &amp; Bone Meal (MBM)</b>	<b>Tyres</b>	<b>Waste Liquid Fuels (WLF)</b>	<b>Recovered Fuel Oil (RFO)</b>	<b>Wood</b>	<b>Alternative Raw Materials (ARM.**)</b>
<b>Units</b>	<b>mg/kg (unless otherwise)</b>							
<b>Gross Calorific Value (MJ/kg)</b>	10-40	10-40	10-40	15-40	10-42	30-48	10-40	<10
<b>Sulphur</b>	≤2.00%	≤2.00%	≤2.00%	≤2.00%	≤2.00%	≤2.00%	≤2.00%	-
<b>Chlorine</b>	≤2.00%	≤2.00%	≤2.00%	-	≤2.00%	≤2.00%	≤2.00%	No more than 1% halogenated organic substances
<b>Total Fluorine, Bromine &amp; Iodine</b>	-	≤1.50%	-	-	≤1.50%	-	≤1.50%	-
<b>Mercury</b>	≤10	≤10	-	-	≤20	≤10	≤10	≤2
<b>Total Group II Metals (Cd &amp; Tl)</b>	≤30	≤30	-	-	≤40	≤40	≤30	≤50
<b>Maximum replacement</b>					40%*			
<b>Minimum Mineral Content</b>								At least 80% dry weight (w/w)

\*As required by Article 46(2) of the Industrial Emissions Directive (2010/75/EU).

\*\* No materials which are defined as carcinogens for the purposes of the COSHH Regulations 2002 (as amended) shall be used.

Table S2.2 is amended to the following:

**Table S2.2 Permitted waste fuel types**

<b>Waste code</b>	<b>Description</b>	<b>WDF or ARM</b>
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>	
<b>01 01</b>	<b>wastes from mineral excavation</b>	
01 01 01	wastes from mineral metalliferous excavation	ARM
01 01 02	wastes from mineral non-metalliferous excavation	ARM
<b>01 04</b>	<b>wastes from physical and chemical processing of non-metalliferous minerals</b>	
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07	ARM
01 04 09	waste sand and clays	ARM
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07	ARM
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>	
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>	
02 01 04	waste plastics (except packaging)	WDF
02 01 07	wastes from forestry	WDF
<b>02 02</b>	<b>wastes from the preparation and processing of meat, fish and other foods of animal origin</b>	
02 02 03	materials unsuitable for consumption or processing	WDF
<b>02 04</b>	<b>wastes from sugar processing</b>	
02 04 01	soil from cleaning and washing beet	ARM
02 04 02	off-specification calcium carbonate	ARM
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>	
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>	
03 01 01	waste bark and cork	WDF
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04	WDF
<b>03 03</b>	<b>wastes from pulp, paper and cardboard production and processing</b>	
03 03 01	waste bark and wood	WDF
03 03 05	de-inking sludges from paper recycling	WDF
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard	WDF
03 03 08	wastes from sorting of paper and cardboard destined for recycling	WDF
03 03 09	lime mud waste	ARM
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	WDF
<b>04</b>	<b>WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES</b>	
<b>04 01</b>	<b>wastes from the leather and fur industry</b>	
04 01 02	liming waste	ARM
04 01 09	wastes from dressing and finishing	WDF
<b>04 02</b>	<b>wastes from the textile industry</b>	
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)	WDF
04 02 21	wastes from unprocessed textile fibres	WDF
04 02 22	wastes from processed textile fibres	WDF
<b>05</b>	<b>WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL</b>	
<b>05 06</b>	<b>wastes from the pyrolytic treatment of coal</b>	
05 06 03*	other tars	WDF
<b>06</b>	<b>WASTES FROM INORGANIC CHEMICAL PROCESSES</b>	
<b>06 09</b>	<b>wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes</b>	
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03	ARM
<b>06 11</b>	<b>wastes from the manufacture of inorganic pigments and opacifiers</b>	
06 11 01	calcium-based reaction wastes from titanium dioxide production	ARM
<b>07</b>	<b>WASTES FROM ORGANIC CHEMICAL PROCESSES</b>	

<b>07 02</b>	<b>wastes from the MFSU of plastics, synthetic rubber and man-made fibres</b>	
07 02 13	waste plastic	WDF
<b>09</b>	<b>WASTES FROM THE PHOTOGRAPHIC INDUSTRY</b>	
<b>09 01</b>	<b>wastes from the photographic industry</b>	
09 01 08	photographic film and paper free of silver or silver compounds	WDF
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>	
<b>10 01</b>	<b>wastes from power stations and other combustion plants (except 19)</b>	
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	ARM
10 01 02	coal fly ash	ARM
10 01 03	fly ash from peat and untreated wood	ARM
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form	ARM
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form	ARM
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14	ARM
10 01 16*	fly ash from co-incineration containing dangerous substances	ARM
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16	ARM
<b>10 02</b>	<b>wastes from the iron and steel industry</b>	
10 02 10	mill scales	ARM
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances	ARM
<b>10 09</b>	<b>wastes from casting of ferrous pieces</b>	
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05	ARM
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07	ARM
<b>10 10</b>	<b>wastes from casting of non-ferrous pieces</b>	
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05	ARM
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07	ARM
<b>10 11</b>	<b>wastes from manufacture of glass and glass products</b>	
10 11 03	waste glass-based fibrous materials	ARM
<b>10 12</b>	<b>wastes from manufacture of ceramic goods, bricks, tiles and construction products</b>	
10 12 03	particulates and dust	ARM
10 12 06	discarded moulds	ARM
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)	ARM
<b>10 13</b>	<b>wastes from manufacture of cement, lime and plaster and articles and products made from them</b>	
10 13 01	waste preparation mixture before thermal processing	ARM
10 13 04	wastes from calcination and hydration of lime	ARM
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)	ARM
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10	ARM
10 13 12*	solid wastes from gas treatment containing dangerous substances	ARM
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12	ARM
10 13 14	waste concrete and concrete sludge	ARM
<b>12</b>	<b>WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS</b>	
<b>12 01</b>	<b>wastes from shaping and physical and mechanical surface treatment of metals and plastics</b>	
12 01 05	plastics shavings and turnings	WDF
12 01 13	welding wastes	WDF

<b>13</b>	<b>OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)</b>	
<b>13 07</b>	<b>wastes of liquid fuels</b>	
13 07 01*	fuel oil and diesel	WDF
<b>15</b>	<b>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>	
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>	
15 01 01	paper and cardboard packaging	WDF
15 01 02	plastic packaging	WDF
15 01 03	wooden packaging	WDF
15 01 05	composite packaging	WDF
15 01 06	mixed packaging	WDF
15 01 09	textile packaging	WDF
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>	
<b>16 01</b>	<b>end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)</b>	
16 01 03	end-of-life tyres	WDF
16 01 19	plastic	WDF
16 01 22	components not otherwise specified	WDF
<b>16 08</b>	<b>spent catalysts</b>	
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified	ARM
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)	ARM
16 08 07*	spent catalysts contaminated with dangerous substances	ARM
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>	
<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>	
17 01 01	concrete	ARM
17 01 02	bricks	ARM
17 01 03	tiles and ceramics	ARM
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	ARM
<b>17 02</b>	<b>wood, glass and plastic</b>	
17 02 01	wood	WDF
17 02 03	plastic	WDF
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>	
17 05 04	soil and stones other than those mentioned in 17 05 03	ARM
17 05 06	dredging spoil other than those mentioned in 17 05 05	ARM
17 05 08	track ballast other than those mentioned in 17 05 07	ARM
<b>17 08</b>	<b>gypsum-based construction material</b>	
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01	ARM
<b>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>	
<b>19 01</b>	<b>wastes from incineration or pyrolysis of waste</b>	
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes	ARM
19 01 13*	fly ash containing dangerous substances	ARM
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>	
19 02 03	premixed wastes composed only of non-hazardous wastes	ARM
19 02 04*	premixed wastes composed of at least one hazardous waste	ARM

19 02 08*	liquid combustible wastes containing dangerous substances	WDF
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09	WDF
<b>19 08</b>	<b>wastes from waste water treatment plants not otherwise specified</b>	
19 08 05	sludges from treatment of urban waste water	ARM
<b>19 09</b>	<b>wastes from the preparation of water intended for human consumption or water for industrial use</b>	
19 09 02	sludges from water clarification	ARM
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>	
19 12 01	paper and cardboard	WDF
19 12 04	plastic and rubber	WDF
19 12 07	wood other than that mentioned in 19 12 06	WDF
19 12 08	textiles	WDF
19 12 09	minerals (for example sand, stones)	ARM
19 12 10	combustible waste (refuse derived fuel)	WDF
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	ARM
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	ARM & WDF
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>	
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>	
20 01 01	paper and cardboard	WDF
20 01 10	clothes	WDF
20 01 11	textiles	WDF
20 01 38	wood other than that mentioned in 20 01 37	WDF
20 01 39	plastics	WDF

**Condition 2.3.3 is amended to the following:**

2.3.3 Waste shall be accepted only if:

- (a) it is of a type listed in schedule 2 table S2.1 S2.2; and
- (b) it conforms to the description in the documentation supplied by the producer and holder

**Condition 2.3.6 is amended to the following:**

- 2.3.6 (a) The operator shall use only those waste derived fuels and Alternative Raw Materials listed in table S2.2 of schedule 2 and within the specification ranges specified in table S2.1.
- (b) Hazardous waste shall not be burned, other than in the main burner of the kiln.

**Condition 2.3.8 is amended to the following:**

2.3.8 Any waste derived fuels not listed in Schedule 2 Table S2.2 shall not be used for the purposes of carrying out a feasibility trial without obtaining the prior written approval from Natural Resources Wales in each case. Any such feasibility trials will be limited to a maximum of 100 tonnes of the fuel and a maximum duration of 14 days.

**Condition 2.3.9 is amended to the following:**

2.3.9 Any waste raw material not listed in schedule 2 Table S2.2 shall not be used without prior written approval from Natural Resources Wales.

**Schedule 6 is amended to include the following:**

“MPA Code of Practice” means the Code of Practice for the Use of Waste Materials in Cement and Dolomitic Lime Manufacture, issued by the Mineral Products Association in April 2014.

**Schedule 3 – conditions to be added**

The following conditions are added as a result of the application made by the operator.

**The following condition is added to section 2.3**

**Hazardous waste storage and treatment**

2.3.18 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

**The following condition is to be added to section 4.2 – Reporting**

4.2.6 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales, using the form specified, the information specified on the form relating to the types of waste Alternative Raw Materials and Waste Derived Fuels that the Operator has used in that quarter.

**Form Fuel1 is amended to include the following row;**

Waste ARM & WDF Types Used	List of waste based Alternative Raw Materials and Waste Derived Fuels used at the installation under the Code of Practice	INSERT DATE
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**The following condition is added to section 4.3 – Notifications:**

- 4.3.8 Unless otherwise agreed in writing, the operator shall provide Natural Resources Wales with 7 days written notice prior to the introduction of a new waste derived fuel or raw material listed in the Mineral Products Association's Code of Practice. The introduction of a new waste derived fuel or raw material does not require prior consent from Natural Resources Wales.