

# **REGISTER OF ENVIRONMENTAL ASPECTS AND IMPACTS**

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# DB Construction Register of Environmental Aspects and Impacts

DB-0070 Date 23/3/09 Revision No 1.

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## AMENDMENT RECORD

Version	Date	Description
1.0	23/03/09	Approved

## Abbreviations for legislation in the register:

EPA	Environmental Protection Act 1990	ODS	Environmental Protection (Controls on Substances that Deplete the Ozone Layer) Regulations 2002
WRA	Water Resources Act 1991	COSHH	Control of Substances Hazardous to Health Regulations 2002
WIA	Water Industries Act 1991	OSR	Control of Pollution (Oil Storage)(England) Regulations 2001
EA	Environment Act 1995	HASAW A	Health & Safety at Work Act Etc. 1994
CAA	Clean Air Act 1993	RVCU	Road Vehicles (Construction and Use) Regulations 1986
SWR	Special Waste Regulations 1996	CLR	Contaminated Land (England)(Amendment) Regulations 2001
CPR	Control of Pesticides Regulations 1986	COPR	Control of Pesticides Regulations 1986
IPPC	Integrated Pollution Prevention Control	WEEE	Waste Electronic and Electrical Equipment Directive
Cop	Code of Practice		

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	Aspect	Impact	Applicable Legislation	Insufficient Information?	Potential Impact	Likelihood Occurrence	
<b>Emissions to Atmosphere</b>							
1	Use of electricity on site	Distant emission of global warming gasses & contributor to acid rain	No	No	2	2	
2	Storage or use of chemicals & other hazardous materials on site e.g. spray paints, lubricant, etc	Emission due to poor storage arrangements, damaged container, etc.	COSHH, CPR	No	1	2	
3	Contaminated dust migrating off site due to dry weather or construction works	Windblown dust moves to adjoining sites, causing pollution and potential health hazards	EPA Pt III	No	1	2	
4	Damage to service mains during excavation works	Fire, release of gas or electrical strike	No	No	3	2	
5	Fire including unauthorised bonfire or arson	Spread of smoke, dust or fumes to adjoining properties	CAA EPA Pt III	No	2	2	
6	Arson or accidental fire at Head Office	Spread of smoke, dust or fumes to adjoining properties	CAA EPA Pt III	No	3	1	
7	Emissions from maintenance or construction works carried out on site	Dust, smoke, noise odours, may cause nuisance	EPA Pt III	No- AP1, AP6	2	3	
8	Use of vehicles by staff to drive to site & H/O	Increase in emissions to atmosphere and fuel consumption	No	No	2	3	
9	Use of vehicles for delivery of materials to site	Inappropriate management may result in increased use of fuel and production of exhaust emissions	RVCU	No	2	2	
10	Use of company cars and other vehicles for business purposes	Increase in emissions to atmosphere and fuel consumption	RVCU	Yes	2	2	
11	Purchase of vehicles	Correct choice may reduce use of fuel and production of exhaust emissions	No	No	2	2	
12	Maintenance of company vehicles	Reduction of fuel consumption and exhaust emissions	RVCU	No	2	2	
13							
<b>Discharge to Water</b>							
14	Poor availability of accurate drainage and record plans	Increased potential for illegal discharge to surface water drainage systems & failure to react appropriately to environmental incidents	WRA	No	3	1	
15	Accidental discharge to ground water due to construction & maintenance works	Breach of environmental legislation and potential spread of contamination to adjoining sites & water courses	WRA	No- WMT1,	2	3	
16	Construction and excavation works	Contamination of surface and ground water. Breach of relevant legislation	WRA	No	2	2	

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17	Failure to maintain drainage systems to prevent leakages / blockages	Leaching & overflow causing pollution of ground and surface water	WRA/WIA	No	2	2	
18	Discharge of surface water to local water courses	Discharge breaches Water Resources Act	WRA	No	3	1	
19	Discharge of fuel, oils or other hazardous substances to foul drainage system at sites/ H/O	Potential to cause minor problems at the sewage works and breach of WIA	WIA	No	2	2	
20	Spillages of diesel or fuel to unsealed ground	Pollution of ground water or leaching to adjoining sites	WRA	No- WMT4	3	2	
21	Discharge of fire protection water to drain during a fire	Pollution of ground water, local water courses & sewers by chemicals, foam & products of combustion	WRA	No	3	1	
22	Existence of contaminated land (inadequate containment or disturbance during ground works)	Contamination of ground and surface water or leaching to ground water, local water courses and adjoining sites	WRA	Yes	3	1	
23	Accidental leakage of fuel from above ground tanks	Leakages and spills due to condition, age, refilling, maintenance & management, causing pollution to surface or ground water	OSR	No- WMT3	3	2	
24	Storage and use of chemicals or other hazardous materials on site, including leakage during transfer (diesel, petrol lubricants, etc)	Pollution of surface & ground water	WRA	No	1	3	
<b>Ground Conditions and Contamination</b>							
25	Existence of unsealed ground on the site	Potential for contamination of the ground & leaching of pollutants to ground water	WRA	No	2	2	
26	Existence of contaminated ground during ground works at site	Transfer / leaching of contamination to adjoining land or properties	WRA	No	3	1	
<b>Waste Management and Disposal</b>							
27	Storage of waste in closed skips on sealed surfaces away from drains		No	No	2	3	
28	Storage of waste within segregated bins in the work areas		No	No	2	3	
29	Recycling and re-use of wastes, including paper, IT equipment, furniture, etc.	Reduction in the requirement for landfill space	WEEE	No	1	3	
30	Incorrect use of bins and skips resulting in poor waste segregation	Possible incorrect waste description and breach of the Duty of Care	EPA Pt II	No	2	2	
31	Use of unlabelled skips	Potential for waste to be sent to an inappropriately licensed site and breach of	EPA Pt II	No	2	2	

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	Aspect	Impact	Applicable Legislation	Insufficient Information?	Potential Impact	Likelihood Occurrence	
		the Duty of Care					
32	Failure to complete & retain controlled waste documentation	Possible legal breach	EPA Pt II	No	3	1	
33	Failure to complete and retain special waste documentation	Possible legal breach	SWR	No	2	1	
34	Failure to check waste disposal by contractors	Possible breach of the Duty of Care	EPA Pt II	No	3	1	
35	Incorrect use and positioning of skips by contractors	Possible contamination of unsealed ground, surface water drainage, site litter and breach of the Duty of Care	EPA Pt II	No	2	1	
36	Production of waste for disposal by site operations	Consumption of landfill space	No	No – WM4, WM5	2	3	
37	Disposal of contaminated soil or other special waste to landfill	Consumption of landfill space and potential for emissions during transport and potential incorrect disposal causing breach of legislation	SWR	No	3	1	
38	Disposal of asbestos waste during demolition and other works	Consumption of special waste landfill and potential for emissions during stripping and disposal	EPA Pt II DoC SWR	No	3	1	
39	Use of non approved or non licensed waste disposal contractors	Failure of contractor to maintain current Transfer and Management Licences and potential for breach of legislation	EPA Pt II DoC	Yes	2	1	
<b>Materials Storage and Management</b>							
40	Incorrect positioning of waste oil and fuel tanks	Possible damage to tanks causing spillage and pollution of ground water or unsealed ground and possible breach of relevant legislation	WRA	No	3	1	
41	Spillage of diesel or oil from unbunded above ground tanks or uncontained fill points	Pollution of ground water, surface water drainage or unsealed ground	WRA	No	2	2	
42	Spillage of fuel during vehicle refuelling or breakdowns	Pollution of ground water, surface water drainage or unsealed ground	WRA	No	2	2	
<b>Energy Use</b>							
43	Consumption of electricity at H/O.	The consumption of a finite resource and production of global warming gasses & contributor to acid rain	No	No	2	3	
44	Failure to use energy management systems	No reduction in the consumption of a finite resource or achievement of energy	No	No	2	3	

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	Aspect	Impact	Applicable Legislation	Insufficient Information?	Potential Impact	Likelihood Occurrence	
		savings & environmental targets					
45	Failure to maintain buildings to current standards	No reduction in the consumption of a finite resource or achievement of energy savings and environmental targets	BR	No	2	2	
<b>Local Environmental and Community Issues</b>							
Noise							
46	Noisy operations continued after normal working hours	Potential for noise nuisance	EPA Pt III	No	2	2	
47	Operation of noisy plant	Potential for noise nuisance	EPA Pt III	No – AP8, AP9	2	3	
48	Impact of noise from construction / maintenance operations	Potential for noise nuisance	EPA Pt III	No	2	2	
Visual Impacts							
49	External storage of materials and waste	Potential for nuisance	No	No	2	2	
Security / Neighbours							
50	Ineffective site security and intruders on site	Potential for pollution through vandalism or waste problems from fly tipping	WRA EPA Pt III	Yes	2	2	
<b>Material / Supplier Selection</b>							
51	Selection and monitoring of contractors	Reduction in pollution by using contractors with effective environmental policies and management systems	No	No	2	1	
52	Contractor operations during construction work	Contractors may breach Duty of Care or Water Resources Act or may create emissions, noise and ground contamination	Any of above	No	2	2	
53	Poor selection of equipment and materials	Increase in raw materials consumption and related global warming emissions and failure to reduce energy consumption	No	No	2	2	
<b>Business Operations</b>							
54	Use of paper during printing, circulars, brochures, etc.	Excessive use of a renewable resource Increase in waste disposed to landfill sites	No	No	2	1	