From: David Burke Sent: 18 February 2008 11:10 To: m.oconnor@epa.ie Subject: W0041-01 Technical Amendment Application - EWC List

Marie,

following our conversation on Friday I checked the records. The attached excel file was emailed to Brendan Foley, EPA, Enforcement Officer on 10th June 2004 from Maggie Hayes, the then Environmental Coordinator, as the revised list of waste types by EWC code acceptable at Shannon Environmental Services under our waste icense.

Based on this I have adjusted the proposed updated list of EWC (see attached word document). There were 6 additional EWC which we feel could also be included based on their characteristic similarity to other EWC already on the list. These 6 are set out in the attached MS Word document.

If you have any queries please do not hesitate to give me a call.

Regards, David Burke, HSE & Compliance Manager, Enva Ireland Ltd. T: 061 707404 M: 086 8367421 Environmental Notice: Please don't print this e-mail unlasting of the really need to! For the real of t

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EWC Codes Accepted at Enva Ireland Ltd WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING 02 01 08* agrochemical waste containing dangerous substances 02 01 09 agrochemical waste other than those mentioned in 02 01 08 02 01 99 wastes not otherwise specified 02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tabacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation 02 03 03 wastes from solvent extraction 02 04 wastes from sugar processing 02 04 02 off-specification calcium carbonate 02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) 02 07 02 wastes from spirits distillation 02 07 03 Additional and the production of panels and furniture 03 01 04* sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances 03 01 99 Wastes not otherwise specified 03 02 Wastes from wood preservation 03 02 01* non-halogenated organic wood preservatives 13 02 03* rganoetallic wood preservatives 13 02 03* rganometallic wood preservatives 13 02 05* her wood preserv wastes from chemical treatment other wood preservatives containing dangerous substances 03 02 99 wood preservatives not otherwise specified 03 03 wastes from pulp, paper and cardboard production and processing 03 03 05 de-inking sludges from paper recycling 03 03 09 lime mud waste 03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation 03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10 03 03 99 wastes not otherwise specified WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES 04 01 wastes from the leather and fur industry 04 01 02 liming waste 04 01 03* degreasing wastes containing solvents without a liquid phase 04 01 04 tanning liquor containing chromium

04 01 05 tanning liquor free of chromium 04 01 06 sludges, in particular from on-site effluent treatment containing chromium 04 01 07 sludges, in particular from on-site effluent treatment free of chromium 04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium 04 01 09 wastes from dressing and finishing 04 01 99 wastes not otherwise specified 04 02 wastes from the textile industry 04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer) 04 02 10 organic matter from natural products (for example grease, wax) 04 02 14* wastes from finishing containing organic solvents 04 02 15 wastes from finishing other than those mentioned in 04 02 14 04 02 16* dyestuffs and pigments containing dangerous substances 04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16 wastes from petroleum refining 05 01 02* lesalter sludges 5 01 03* ink bottom sludges 5 01 05* \$ 10 04 02 19* . 05 01 06* oily sludges from maintenance operations of the plant or equipment 05 01 07 acid tars 05 01 08* other 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 11* wastes from cleaning of fuels with bases 05 01 12* oil containing acids 05 01 13 boiler feedwater sludges 05 01 14 wastes from cooling columns 05 01 15* spent filter clays 05 01 16 sulphur-containing wastes from petroleum desulphurisation

05 01 17 bitumen 05 01 99 wastes not otherwise specified 05 07 waste from natural gas purification and transportation 05 07 01* wastes containing mercury 05 07 02 wastes containing sulphur 05 07 99 wastes not otherwise specified WASTES FROM INORGANIC CHEMICAL PROCESSES 06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids 06 01 01* sulphuric acid and sulphurous acid 06 01 02* hydrochloric acid 06 01 03* hydrochloric acid 06 01 04* phosphoric and phosphorous acid . 06 01 05* nitric acid and nitrous acid 06 01 06* Foringetion purposes only: any other use. other acids 06 01 99 wastes not otherwise specified 06 02 wastes from the MFSU of bases 06 02 01* calcium hydroxide 06 02 03* ammonium hydroxide 06 02 04* sodium and potassium hydroxide 06 02 05* other bases 06 02 99 wastes not otherwise specified 06 03 wastes from the MFSU of salts and their solutions and setallic oxides 06 03 11* solid salts and solutions containing cyanides 06 03 13* solid salts and solutions containing heavy metals 06 03 14 solid salts and solution other than those mentioned in 06 03 11 and 06 03 13 06 03 15* metallic oxides containing heavy metals 06 03 16 metallic oxides other than those mentioned in 06 03 15 06 03 99 wastes not otherwise specified 06 04 metal-containing wastes other than those mentioned in 06 03 06 04 03* wastes containing arsenic 06 04 04* wastes containing mercury 06 04 05* wastes containing other heavy metals 06 04 99 wastes not otherwise specified 06 05 sludges from on-site effluent treatment 06 05 02* sludges from on-site effluent treatment containing dangerous solutions 06 05 03 sludges from onsite effluent treatment other than those mentioned in 06 05 02

06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes 06 06 02* wastes containing dangerous sulphides 06 06 03 wastes containing sulphides other than those mentioned in 06 06 02 06 06 99 wastes not otherwise specified 06 07 wastes from the MFSU of halogens and halogen chemical processes 06 07 02* activated carbon from chlorine production 06 07 03* barium sulphate sludge containing mercury 06 07 04* solutions and acids, for example contact acid 06 07 99 wastes not otherwise specified 06.08 wastes from the MFSU of silicon and silicon derivatives 06 08 02* waste containing dangerous silicones 06 08 99 wastes not otherwise specified 06 09 wastes from the MFSU of phosphorus chemicals and phosphorous chemical processes wastes not otherwise specified 06 10 wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture 06 10 02* wastes containing dangerous substances 06 10 99 vastes not otherwise specified 16 11 /astes from the manufacture of inorganic pigmenta and opacifie: 5 11 01 Ilcium-based reaction wastes from titanium 1 199 istes not otherwite 12 06 09 02 wastes not otherwise specified 06 13 wastes from inorganic chemical processes not otherwise specified 06 13 01* inorganic plant protection products, wood-preserving agents and other biocides 06 13 02* spent activated carbon (except 06 07 02) 06 13 03 carbon black 06 13 05* soot 06 13 99 wastes not otherwise specified WASTES FROM ORGANIC CHEMICAL PROCESSES 07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals 07 01 01* aqueous washing liquids and mother liquors 07 01 03* organic halogenated solvents, washing liquids and mother liquors 07 01 04* other organic solvents, washing liquids and mother liquors 07 01 07*

halogenated still bottoms and reaction residues 07 01 08* other still bottoms and reaction residues 07 01 09* halogenated filter cakes and spent absorbents 07 01 10* other filter cakes and spent absorbents 07 01 11' sludges from on-site effluent treatment containing dangerous substances 07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11 07 01 99 wastes not otherwise specified 07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres 07 02 01* aqueous washing liquids and mother liquors 07 02 03* organic halogenated solvents, washing liquids and mother liquors 07 02 04* other organic solvents, washing liquids and mother liquors 07 02 07* halogenated still bottoms and reaction residues 07 02 08* other still bottoms and reaction residues 07 02 09* ⁴ For inspection purposes only any other use. 4 For inspection purposes only any other use. 4 10 constant owner required for any other use. 4 2 16 halogenated filter cakes and spent absorbents 07 02 10* other filter cakes and spent absorbents 07 02 11* sludges from on-site effluent treatment containing dangerous substances 07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11 07 02 13 waste plastic 07 02 14* wastes from additives containing dangerous substances 07 02 15 wastes from additives other than those mentioned in 07 02 14 07 02 16* waste containing dangerous silicones 07 02 17 waste containing silicones other than those mentioned in 0702 16 07 02 99 wastes not otherwise specified 07 03 wastes from the MFSU of organic dyes and pigments (except 06 11) 07 03 01* aqueous washing liquids and mother liquors . 07 03 03* organic halogenated solvents, washing liquids and mother liquors 07 03 04* other organic solvents, washing liquids and mother liquors 07 03 07* halogenated still bottoms and reaction residues 07 03 08* other still bottoms and reaction residues 07 03 09* halogenated filter cakes and spent absorbents 07 03 10* other filter cakes and spent absorbents 07 03 11* sludges from on-site effluent treatment containing dangerous substances 07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11 07 03 99 wastes not otherwise specified 07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides 07 04 01*

aqueous washing liquids and mother liquors 07 04 03* organic halogenated solvents, washing liquids and mother liquors 07 04 04* other organic solvents, washing liquids and mother liquids 07 04 07* halogenated still bottoms and reaction residues 07 04 08* other still bottoms and reaction residues 07 04 09* halogenated filter cakes and spent absorbents 07 04 10* other filter cakes and spent absorbents 07 04 11* sludges from on-site effluent treatment containing dangerous substances 07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11 07 04 13* solid wastes containing dangerous substances 07 04 99 wastes not otherwise specified 07 05 wastes from the MFSU of pharmaceuticals 07 05 01* aqueous washing liquids and mother liquors 07 05 03* organic halogenated solvents, washing liquids and mother liquors uner filter cakes and spent absorbents 07 05 11* sludges from on-site effluent treatment containing dangerous substances 107 05 12 sludges from on-site effluent treatment other than those mentione of 07 05 * 07 05 13* solid wastes containing dangerous substances 17 05 14 olid wastes other than those mentione of 07 05 * 17 05 99 astes not off 07 05 04* wastes not otherwise specified 07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics 07 06 01* aqueous washing liquids and mother liquors . 07 06 03* organic halogenated solvents, washing liquids and mother liquors 07 06 04* other organic solvents, washing liquids and mother liquors 07 06 07 halogenated still bottoms and reaction residues 07 06 08* other sill bottoms and reaction residues 07 06 09* halogenated filter cakes and spent absorbents 07 06 10* other filter cakes and spent absorbents 07 06 11' sludges from on-site effluent treatment containing dangerous substances 07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11 07 06 99 wastes not otherwise specified 07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise

specified . 07 07 01* aqueous washing liquids and mother liquors 07 07 03* organic halogenated solvents, washing liquids and mother liquors 07 07 04* other organic solvents, washing liquids and mother liquors 07 07 07* halogenated still bottoms and reaction residues 07 07 08* other still bottoms and reaction residues 07 07 09* halogenated filter cakes and spent absorbents 07 07 10* other filter cakes and spent sbsorbents 07 07 11* sludges from on-site effluent treatment containing dangerous substances 07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11 07 07 99 wastes not otherwise specified WASTES FORM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS,) ADHESIVES, SEALANTS AND PRINTING INKS 08 01 wastes from MFSU and removal of paint and varnish 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances 08 01 13* sludges from paint or varnish containing organic solvents or other dangerous substances of the form of the than those mentioned in 08 01 13 08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13 08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other requires the there is a substances 08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 17* aqueous sludges containing paint or varnish other than those mentioned to 08 01 15 08 01 17* 08 01 17* wastes from paint or varnish removal containing organic solvents of other dangerous substances substances ent 08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17 08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances 08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19 08 01 21* waste paint or varnish remover 08 01 99 wastes not otherwise specified 08 02 wastes from MFSU of other coatings (including ceramic materials) 08 02 01 waste coating powders 08 02 02 aqueous sludges containing ceramic materials 08 02 03 aqueous suspensions containing ceramic materials 08 02 99 wastes not otherwise specified 08 03 wastes from MFSU of printing inks 08 03 07 aqueous sludges containing ink 08 03 08 aqueous liquid waste containing ink 08 03 12* waste ink containing dangerous substances

08 03 13 waste ink other than those mentioned in 08 03 12 08 03 14* ink sludges containing dangerous substances 08 03 15 ink sludges other than those mentioned in 08 03 14 08 03 16* waste etching solutions 08 03 17* waste printing toner containing dangerous substances 08 03 18 waste printing toner other than those mentioned in 08 03 17 08 03 19* disperse oil 08 03 99 wastes not otherwise specified 08 04 wastes from MFSU of adhesives and sealants (including waterproofing products) 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances 08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11 08 04 13* aqueous sludges containing adhesives or sealants containing organic solvents or other uo 04 15* aqueous liquid waste containing adhesives or sealants containing organic solvents or only any dangerous substances 08 04 16 aqueous liquid waste containing adhesives or a 1 08 04 17* 08 04 16 aqueous liquid waste containing adhesives or sealants other than those mentioned on 08 04 08 04 17* rosin oil 08 04 99 wastes not otherwise specified 08 05 wastes not otherwise specified in 08 08 05 01* waste isocyanates WASTES FROM THE PHOTOGRAPHIC INDUSTEY 09 01 09.01 wastes for the photographic industry 09 01 01* water-based developer and activator solutions 09 01 02* water-based offset plate developer solutions 09 01 03* solvent-based developer solutions 09 01 04* fixed solutions 09 01 05* bleach solutions and bleach fixer solutions 09 01 06* wastes containing silver from on-site treatment of photographic wastes 09 01 07 photographic film and paper containing silver or silver compounds 09 01 08 photographic film and paper free of silver or silver compounds 09 01 10 single-use cameras without batteries 09 01 11* single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03 09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11 09 01 13* aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09

01 06 09 01 99 wastes not otherwise specified WASTES FROM THERMAL PROCESSES 10.01 wastes from power stations and other combustion plants (except 19) 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 09* sulphuric acid 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 10 01 16* 10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 08 to 10 01 01 01 02* sludges from on-site effluent treatment containing dangerous substances 10 01 21 sluges from on-site effluent treatment other than those mentioned in 1801 admention 10 01 22* aqueous sludges from boiler cleansing containing dangerous substances 10 01 23 aqueous sludges from boiler cleansing containing dangerous substances aqueous sludges from boiler cleansing containing dangerous substances 10 01 23 aqueous sludges from boiler cleansing containing dangerous substances 10 01 23 fly ash from co-incineration containing dangerous substances aqueous sludges from boiler cleansing other than those mentioned in 10 01 22 Conser 10 01 24 sands from fluidised beds 10 01 25 wastes from fuel storage and preparation of coal-fired power plants 10 01 26 wastes from cooling-water treatment 10 01 99 wastes not otherwise specified wastes from the iron and steel industry 10 02 01 wastes from the processing of slag 10 02 02 unprocessed slag 10 02 07* solid wastes from gas treatment containing dangerous substances 10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07 10 02 10 mill scales 10 02 11* wastes from cooling-water treatment containing oil 10 02 12 waste from cooling-water treatment other than those mentioned in 10 02 11 10 02 13* sludges and filter cakes from gas treatment containing dangerous substances 10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13 10 02 15 other sludges and filter cakes

10 02 99 wastes not otherwise specified 10 03 wastes from aluminium thermal metallurgy 10 03 02 primary production slags 10 03 05 waste alumina 10 03 08* salt slags from secondary production 10 03 09* black drosses from secondary production 10 03 15* skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities 10 03 16 skimming other than those mentioned in 10 03 15 10 03 17* tar-containing wastes from anode manufacture 10 03 18 carbon-containing waste from anode manufacture other than those mentioned in 10 03 17 10 03 19* flue-gas dust containing dangerous substances 10 03 20 flue-gas dust other than those mentioned in 10 03 19 10 03 21* other particulates and dust (including ball-mill dust) containing dangerous substances Los substances 10 03 22 10.04 wastes from lead thermal metallurgy 10 04 01* slags from primary and secondary production 10 04 02* dross and skimmings from primary and secondary production 10 04 03* calcium arsenate 10 04 04* flue-gas dust 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 04 09* wastes from cooling-water treatment containing oil 10 04 10 waste from cooling-water treatment other than those mentioned in 10 04 09 10 04 99 wastes not otherwise specified 10 05 wastes from zinc thermal metallurgy

10 05 01 slags from primary and secondary production 10 05 03* flue-gas dust 10 05 04 other particulates and dust 10 05 05* solid waste from gas treatment 10 05 06* sludges and filter cakes from gas treatment 10 05 08* wastes from cooling-water treatment containing oil 10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08 10 05 10* dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities 10 05 11 dross and skimmings other than those mentioned in 10 05 10 10 05 99 wastes not otherwise specified 10.06 wastes from copper thermal metallurgy 10 06 01 slags from primary and secondary production 10 06 02 dross and skimmings from primary and secondary production wastes from cooling-water treatment containing oil 10 06 10 wastes from cooling-water treatment other than those mentioned in 10 08 19 10 06 99 wastes not otherwise specified 10 07 wastes from silver, gold and platinum thermal metalurgh 10 07 01 slags from primary and secondary production 10 07 02 dross and skimmings from primary and secondar 10 07 03 olid wastes from gas treat-0 07 04 her 10 06 03* 10 07 04 other particultes and dust 10 07 05 sludges and filter cakes from gas treatment 10 07 07* wastes from cooling-water treatment containing oil 10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07 10 07 99 wastes not otherwise specified 10 08 wastes from other non-ferous thermal metallurgy 10 08 04 particulates and dust 10 08 08* salt slag from primary and secondary production 10 08 09 other slags 10 08 10* dross and skimming that are flammable or emit, upon the contact with water, flammable gases in dangerous quanities 10 08 11

dross and skimmings other than those mentioned in 10 08 10 10 08 12* tar-containing waste from anode manufacture 10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12 10 08 15* flue-gas dust containing dangerous substances 10 08 16 flue-gas dust other than those mentioned in 10 08 15 10 08 17* sludges and filter cakes from flue-gas treatment containing dangerous substances 10.08.18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17 10 08 19* wastes from cooling-water treatment containing oil 10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19 10 08 99 wastes not otherwise specified 10 11 wastes from manufacture of glass and glass products 10 11 03 waste glass-based fibrous materials 10 11 05 particulates and dust 10 11 09* waste preparation mixture before thermal processing, containing dangerous substances 10 11 10 10 11 11* waste glass in small particles and glass powder containing heavy metals (for example from the provide the providet the provide the provide solid wastes from flue-gas treatment containing dangerous substances 10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15 - 09 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 11 99 wastes not otherwise specified 10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products 10 12 01 waste preparation mixture before thermal processing 10 12 03 particulates and dust 10 12 05 sludges and filter cakes from gas treatment 10 12 06 discarded moulds 10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing) 10 12 09* solid wastes from gas treatment containing dangerous substances 10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09 10 12 11* wastes from glazing containing heavy metals

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10 12 12 wastes from glazing other than those mentioned in 10 12 11 10 12 13 sludge from on-site effluent treatment 10 12 99 wastes not otherwise specified 10.13 wastes from manufacture of cement, lime and plaster and articles and products made from them 10 13 01 waste preparation mixture before thermal processing 10 13 04 wastes from calcination and hydration of lime 10 13 06 particulates and dust (except 10 13 12 and 10 13 13) 10 13 07 sludges and filter cakes from gas treatment 10 13 09* wastes from asbestos-cement manufacture containing asbestos 10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 10 13 12* solid wastes from gas treatment containing dangerous substances 10 13 13 solid wastes from gas treatment other than those mentioned in 10 13 12 wastes not otherwise specified WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF other and METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLEDROY 11 01 wastes from chemical surface treatment and coating of motol (for example galvanic processes are phosphotic wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling acids 11 01 05* pickling bases 11 01 07* pickling bases 11 01 08* phosphatising sludges 11 01 09* sludges and filter cakes containing dangerous substances 11 01 10 sludges and filter cakes other than those mentioned in 11 01 09 11 01 11* aqueous rinsing liquids containing dangerous substances 11 01 12 aqueous rinsing liquids other than those mentioned in 11 01 11 11 01 13* degreasing wastes containing dangerous substances 11 01 14 degreasing wastes other than those mentioned in 11 01 13 11 01 15* eluate and sludges from membrane systems or ion exchange systems containing dangerous substances 11 01 16* saturated or spent ion exchange resins 11 01 98* other wastes containing dangerous substances 11 01 99 wastes not otherwise specified 11 02 waste from non-ferrous hydrometallurgical processes 11 02 02* sludges from zinc hydrometallurgy (including jarosite, goethite)

11 02 03 wastes from the production of anodes for aqueous electrolytical processes 11 02 05* wastes from copper hydrometallurgical processes containing dangerous substances 11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05 11 02 07* other wastes containing dangerous substances 11 02 99 wastes not otherwise specified 11 03 sludges and solids from tempering processes 11 03 01* waste containing cyanide 11 03 02* other wastes 11 05 wastes from hot galvanising processes 11 05 01 hard zinc 11 05 02 zinc ash 11 05 03* solid wastes from gas treatment 11 05 04* spent flux 11 05 99 12 01 wastes from shaping and physical and mechanical surface treatment of metals and W. motor and plastics 12 01 01 ferrous metal filings and turnings 12 01 02 ferrous metal dust and particles 12 01 03 non-ferrous metal filings and turnings 12 01 04 non-ferrous metal dust and particles 12 01 05 plastics shavings and turnings 12 01 06* mineral-based machining oils containing halogens (except emulsions and solutions) 12 01 07* mineral-based to the wastes not otherwise specified mineral-based machining oils free of halogens (except emulsions and solutions) 12 01 08* machining emulsions and solutions containing halogens 12 01 09* machining emulsions and solutions free of halogens 12 01 10* synthetic machining oils 12 01 12* spent waxes and fats 12 01 14* machining sludges containing dangerous substances 12 01 15 machining sludges other than those mentioned in 12 01 14 12 01 16* waste blasting material containing dangerous substances 12 01 17 waste blasting material other than those mentioned in 12 01 16 12 01 18* metal sludge (grinding, honing and lapping sludge) containing oil 12 01 19* readily biodegradable machining oil 12 01 20* spent grinding bodies and grinding materials containing dangerous substances 12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20

12 01 99 wastes not otherwise specified 12 03 wastes from water and steam degreasing processes (except 11) 12 03 01* aqueous washing liquids 12 03 02* steam degreasing wastes OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) 13 01 waste hydraulic oils 13 01 01* hydraulic oils, containing PCBs 13 01 04* chlorinated emulsions 13 01 05* non-chlorinated emulsions 13 01 09* mineral-based chlorinated hydraulic oils 13 01 10* mineral-based non-chlorinated hydraulic oils 13 01 11* synthetic hydraulic oils 13 01 12* readily biodegradable hydraulic oils 13 01 13* Is 02 04* mineral-based chlorinated engine, gear and lubricating oils For the purpose of this list of wastes, PCBs will be defined as in Directive 96/59/EC, only, any other 13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils 13 02 06* synthetic engine, gear and lubricating oils 13 02 07* readily biodegradable engine, gear and lubricating oils 13 02 08* other engine, gear and lubricating oils 13 02 08* other engine, gear and lubricating oils 13 03 01* nsulating or heat transmission oils containing PCBs 3 03 01* nsulating or heat transmission oils containing PCBs other hydraulic oils mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01 13 03 07* mineral-based non-chlorinated insulating and heat transmission oils 13 03 08* synthetic insulating and heat transmission oils 13 03 09* readily biodegradable insulating and heat transmission oils 13 03 10* other insulating and heat transmission oils 13 04 bilge oils 13 04 01* bilge oils from inland navigation 13 04 02* bilge oils from jetty sewers 13 04 03* bilge oils from other navigation 13 05 oil/water separator contents 13 05 01* solids from grit chambers and oil/water separators 13 05 02* sludges from oil/water separators 13 05 03*

interceptor sludges 13 05 06* oil from oil/water separators 13 05 07* oily water from oil/water separators 13 05 08* mixtures of wastes from grit chambers and oil/water separators 13 07 wastes of liquid fuels 13 07 01* fuel oil and diesel 13 07 02* petrol 13 07 03* other fuels (including mixtures) 13 08 oil wastes not otherwise specified 13 08 01* desalter sludges or emulsions 13 08 02* other emulsions 13 08 99* wastes not otherwise specified WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08) 14 06 waste organic solvents, refrigerants and foam/aerosol propellants 14 06 01* chlorofluorocarbons, HCFC, HFC 15 01 03 wooden packaging 15 01 04 metallic packaging 15 01 05 composite packaging 15 01 06 mixed packaging 15 01 07 glass packaging 15 01 09 textile packaging 15 01 10* packaging containing residues of or contaminated by dangerous substances 15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers 15 02 absorbents, filter materials, wiping cloths and protective clothing 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02 WASTES NOT OTHERWISE SPECIFIED IN THE LIST 16 01

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) 16 01 07* oil filters 16 01 08* components containing mercury 16 01 09* components containing PCBs 16 01 10* 16 01 13* brake fluids 16 01 14* antifreeze fluids containing dangerous substances 16 01 15 antifreeze fluids other than those mentioned in 16 01 14 16 01 16 16 01 19 plastic . 16 01 20 glass 16 01 21* hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14) 16 01 22 components not otherwise specified 16 01 99 wastes not otherwise specified To U2 09* transformers and capacitors containing PCBs 16 02 10* discarded equipment containing or contaminated by PCBs other than those mentioned on the any 16 02 09 16 02 11* discarded equipment containing chlorofluorocarbons, HCFC, HFC 16 02 12* discarded equipment containing free asbestos 16 02 13* discarded equipment containing hazardous components other than those mentioned in 16 02 09 and 16 02 12) 16 02 13* discarded equipment containing hazardous components other than those mentioned in 16 02 09 and 16 02 12) 16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13 16 02 15* 16 02 16 02 15* hazardous components removed from discarded equipment 16 02 16 components removed from discarded equipment other than those mentioned in 16 02 15 16 03 off-specification batches and unused products 16 03 03* inorganic wastes containing dangerous substances 16 03 04 inorganic wastes other than those mentioned in 16 03 03 16 03 05* organic wastes containing dangerous substances 16 03 06 organic wastes other than those mentioned in 16 03 05 16.05 gases in pressure containers and discarded chemicals 16 05 04* gases in pressure containers (including halons) containing dangerous substances 16 05 05 gases in pressure containers other than those mentioned in 16 05 04 16.05.06* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals 16 05 07* discarded inorganic chemicals consisting of or containing dangerous substances 16 05 08* discarded organic chemicals consisting of or containing dangerous substances 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

16 06 batteries and accumulators 16 06 01 ead batteries 16 06 02* Ni-Cd batteries 16 06 03* mercury-containing batteries 16 06 04 alkaline batteries (except 16 06 03) 16 06 05 other batteries and accumulators 16 06 06* separately collected electrolyte from batteries and accumulators 16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13) 16 07 08* wastes containing oil 16 07 09* wastes containing other dangerous substances 16 07 99 wastes not otherwise specified 16 08 spent catalysts 16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum ...pounds) ...ot otherwise ...otherwise ...otherwis (except 16 08 07) 16 08 02* aqueous liquid wastes destined for off-site treatment 16 10 01* aqueous liquid wastes containing dangerous substances 16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01 16 10 03* aqueous concentrates containing dangerous substances 16 10 04 aqueous concentrates other than those mentioned in 16 10 03 16 11 waste linings and refractories 16 11 01* carbon-based linings and refractories from metallurgical processes containing dangerous substances 16 11 02 carbon-based linings and refractories fronm metallurgical processes other than those mentioned in 16 11 01 16 11 03* other linings and refractories from metallurgical processes containing dangerous substances 16 11 04

other linings and refractories from metallurgical processes other than those mentioned in 16 11 03 16 11 05* linings and refractories from non-metallurgical processes containing dangerous substances 16 11 06 linings and refractories from non-metallurgical processes other than those mentioned in 16 16 11 05 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 17 03 bituminous mixtures, coal tar and tarred products 17 03 01* bituminous mixtures containing coal tar 17 03 02 bituminous mixtures containing other than those mentioned in 17 03 01 17 03 03* coal tar and tarred products 17 04 metals (including their alloys) 17 04 01 copper, bronze, brass 17 04 02 aluminium 17 04 03 lead 17 04 04 zinc 17 04 05 iron and steel 17 04 06 17.06 insulation materials and asbestos-containing construction materials 17 06 03* other insulation materials consisting of or containing dangerous substances 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03 17 06 05* construction materials containing asbestos (WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care) 18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans 18 01 01 sharps (except 18 01 03) 18 01 06* chemicals consisting of or containing dangerous substances 18 01 07 chemicals other than those mentioned in 18 01 06 18 01 08* cytotoxic and cytostatic medicines 18 01 09 medicines other than those mentioned in 18 01 08 18 01 10*

amalgam waste from dental care 18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals 18 02 01 sharps except (18 02 02) 18 02 05* chemicals consisting of or containing dangerous substances 18 02 06 chemicals other than those mentioned in 18 02 05 18 02 07* cytotoxic and cytostatic medicines 18 02 08 medicines other than those mentioned in 18 02 07 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 19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) 19 02 03 premixed wastes composed only of non-hazardous wastes 19 02 04* premixed wastes composed of at least one hazardous waste 19 02 05* Consent of copyright owner required for any other use. sludges from physico/chemical treatment containing dangerous substances 19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05 19 02 07* oil and concentrates from separation 19 02 08* liquid combustible wastes containing dangerous substances 19 02 09 solid combustible wastes containing dangerous substances 19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09 19 02 11* other wastes containing dangerous substances 19 02 99 wastes not otherwise specified 19 03 stabilised/solidified wastes 19 03 04* wastes marked as hazardous, partly stabilised 19 03 05 stabilised wastes other than those mentioned in 19 03 04 19 03 06* wastes marked as hazardous, solidified 19 03 07 solidified wastes other than those mentioned in 19 03 06 19 06 wastes from anaerobic treatment of waste 19 06 03 liquor from anaerobic treatment of municipal waste 19 06 04 digestate from anaerobic treatment of municipal waste 19 06 05 liquor from anaerobic treatment of animal and vegetable waste 19 06 06 digestate from anaerobic treatment of animal and vegetable waste 19 06 99 wastes not otherwise specified 19 07 landfill leachate 19 07 02* landfill leachate containing dangerous substances 19 07 03 landfill leachate other than those mentioned in 19 07 02 19 08 wastes from waste water treatment plants not otherwise specified 19 08 01

screenings 19 08 02[°] waste from desanding 19 08 05 sludges from treatment of urban waste water 19 08 06* saturated or spent ion exchange resins 19 08 07* solutions and sludges from regeneration of ion exchangers 19 08 08* membrane system waste containing heavy metals 19 08 09 grease and oil mixture from oil/water separation containing only edible oil and fats 19 08 10* grease and oil mixture from oil/water separation other than those mentioned in 19 08 09 19 08 11' sludges containing dangerous substances from biological treatment of industrial waste water 19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 19 08 13* sludges containing dangerous substances from other treatment of industrial waste water 19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 thangers conserved conviction of conviction 19 08 99 wastes not otherwise specified 19.09 wastes from the preparation of water intended for human consumption or water for industrial use 19 09 01 solid waste from primary filtration and screenings 19 09 02 sludges from water clarification 19 09 03 sludges from decarbonation 19 09 04 spent activated carbon 19 09 05 saturated or spent ion exchange resins 19 09 06 solutions and sludges from regeneration of ion exchangers 19 09 99 wastes not otherwise specified 19 10 wastes from shredding of metal-containing wastes 19 10 03* fluff-light fraction and dust containing dangerous substances 19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03 19 10 05* other fractions containing dangerous substances 19 10 06 other fractions other than those mentioned in 19 10 05 1911 wastes from oil regeneration 19 11 01* spent filter clays . 19 11 02* acid tars 19 11 03* aqueous liquid wastes 19 11 04* wastes from cleaning of fuel with bases 19 11 05* sludges from on-site effluent treatment containing dangerous substances 19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05 19 11 07* wastes from flue-gas cleaning 19 11 99

wastes not otherwise specified 19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified 19 12 06* wood containing dangerous substances 19 12 11* other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances 19 13 wastes from soil and groundwater remediation 19 13 01* solid wastes from soil remediation containing dangerous substances 19 13 02 solid wastes from soil remediation other than those mentioned in 19 13 01 19 13 03* sludges from soil remediation containing dangerous substances 19 13 04 sludges from soil remediation other than those mentioned in 19 13 03 19 13 05* sludges from groundwater remediation containing dangerous substances 19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05 19 13 07* aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances e Consert of copyright owner required for any other use. 19 13 08 aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20 01 separately collected fractions (except 15 01) 20 01 13* solvents 20 01 14* acids 20 01 15* alkalines 20 01 17* photochemicals . 20 01 19* pesticides 20 01 21* fluorescent tubes and other mercury-containing waste 20 01 23* discarded equipment containing chlorofluorocarbons 20 01 25 edible oil and fat 20 01 26* oil and fat other than those mentioned in 20 01 25 20 01 27* paint, inks, adhesives and resins containing dangerous substances 20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27 20 01 29* detergents containing dangerous substances 20 01 30 detergents other than those mentioned in 20 01 29 20 01 31* cytotoxic and cytostatic medicines 20 01 32 medicines other than those mentioned in 20 01 31 20 01 33* batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries 20 01 34 batteries and accumulators other than those mentioned in 20 01 33 20 01 35* discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 20 01 37* wood containing dangerous substances 20 01 39 plastics 20 01 99 other fractions not otherwise specified 20 03 other municipal wastes 20 03 07 bulky waste 20 03 99 municipal wastes not otherwise specified

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Chapter	es E.1.2 & E.1.3 – Amended Version 2008 – Updated 18 th February 2008 Description	EWC included
02	Wastes from agriculture, horticulture, acquaculture, forestry, hunting and	02 01 08* to 02 01 09
02	fishing, food preparation and processing.	02 01 00 10 02 01 09
	isining, tood preparation and processing.	02 03 03
		02 03 03 03 02 02 04 02
		02 07 02 to 02 07 03
03	Wastes from wood processing and the production of panels and	03 01 04*
	furniture, pulp, paper and cardboard.	03 01 99 to 03 02 99
		03 03 05
		03 03 09 to 03 03 99
04	Wastes from the leather, fur and textile industries.	04 01 02 to 04 02 99
05	Wastes from petroleum refining, natural gas purification and pyrolytic	05 01 02* to 05 01 99
	treatment of coal.	05 07 01* to 05 07 99
06	Wastes from inorganic chemical processes.	06 01 01* to 06 06 99
		06 07 02* to 06 13 03
		06 13 05* to 06 13 99
07	Wastes from organic chemical processes.	07 01 01* to 07 07 99
08	Wastes from the manufacture, formulation, supply and use (MFSU) of	08 01 11* to 08 05 01*
	coatings (paints, varnishes and vitreous enamels), sealants and printing	
0.0	inks.	
09	Wastes from photographic industry.	09 01 01* to 09 01 99
10	Wastes from thermal processes.	10 01 01 to 10 02 99
	1 ⁵⁰ .	10 03 04* to 10 08 13
	net	10 08 15* to 10 08 99 10 11 03 to 10 13 07
	Nº NO	10 11 05 to 10 13 07 10 13 10 to 10 13 99
11	Wastes from chemical surface treatment and coating of metals and other	10 13 10 to 10 13 99 11 01 05* to 11 05 99
11	materials; non-ferrous hydro-metallurgy.	11 01 05 10 11 05 99
12	Wastes from shaping and physical and mechanical surface treatment of	12 01 01 to 12 03 02*
12	metals and plastics.	12 01 01 10 12 05 02
13	Oil wastes and wastes of liquid fuels (except edible oils, 05 and 12).	13 01 01* to 13 08 99*
14	Waste organic solvents, refrigerants and propellants (except 07 and 08).	14 06 01* to 14 06 05*
15	Waste packaging; absorbents, wiping cloths, filter materials and	15 01 01 to 15 02 03
-	protective clothing not otherwise specified.	
16	Wastes not otherwise specification the list.	16 01 07* to 16 01 10*
	ČŎ,	16 01 13* to 16 01 16
		16 01 19 to 16 03 06
		16 05 04* to 16 11 06
17	Construction and demolition wastes (including excavated soil from	17 01 06*
	contaminated sites).	17 02 04*
		17 03 01* to 17 04 09*
		17 05 03* to 17 05 08
10	\mathbf{W}_{1}	17 06 03* to 17 06 05*
18	Wastes from human or animal health care and/or related research (except	18 01 01 18 01 06* to 18 02 01
	kitchen and restaurant wastes not arising from immediate health care).	18 01 06* to 18 02 01 18 02 05* to 18 02 08
19	Wastes from waste management facilities, off-site waste water treatment	19 02 03 to 19 03 07
17	plants and the preparation of water intended for human consumption and	19 02 03 to 19 03 07 19 06 03 to 19 09 99
	water for industrial use.	19 10 03* to 19 11 99
		19 10 05 to 19 11 99 19 12 06* to 19 12 07
		19 12 11* to 19 13 08
20	Municipal waste (household waste and similar commercial, industrial	20 01 02
	and institutional wastes) including separately collected fractions.	20 01 13* to 20 01 37*
		20 01 39 to 20 01 40
		20 01 99
		20 03 07 to 20 03 99
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Tables E.1.2 & E.1.3 – Amended Ve	ersion 2008 – Updated 18 th February 2008
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The following EWC are additional to that supplied to the Agency on 10 th June		
2004. These are included in the table above based on their characteristic similarity		
to other waste types already allowed:		

to other waste types uneady anowed.		
17 01 06*	Mixtures of, or separate fractions of concrete, bricks, tiles and	
	ceramics containing dangerous substances.	
17 02 04*	Glass, plastic and wood containing or contaminated with dangerous	
	substances.	
19 12 07	Wood other than that mentioned in 19 12 06.	
19 12 12	Other wastes (including mixtures of materials) from mechanical	
	treatment of wastes other than those mentioned in 19 12 11.	
20 01 02	Glass.	
20 01 40	Metals.	

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