

 GOVERNMENT OF DUBAI	Organization Unit:	Waste Management Department	الوحدة التنظيمية :	 بلدية دبي DUBAI MUNICIPALITY
	Form sheet title:	Hazardous Waste Disposal	اسم النموذج :	
	Doc Ref.:	DM-WMD-WTS-TG-8	رقم النموذج :	

Waste Treatment Section
Waste Management Department

Technical Guideline No. 8
Disposal of Hazardous Waste
(WTS-TG No. 8)

June 2021

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List of Abbreviations

DM – Dubai Municipality
 EIAC – Emirates International Accreditation Centre
 HWG – Hazardous Waste Generator
 WTS – Waste Treatment Section
 WMD – Waste Management Department

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1.0 Introduction:

Hazardous wastes pose a significant risk and danger to humans, properties and to environment if not managed properly. In accordance to this threat, **Waste Management Department (WMD), Dubai Municipality (DM)** published this guideline to regulate the handling, storage, and preparation of hazardous waste for transportation to disposal sites. This covers the responsibility of the individual/company generating the wastes in accordance with the local and federal laws and in relation with the Basel Convention and International Treaty.

The application for permit to dispose of hazardous waste is made by online submission of request/application through the **Waste Disposal Service (WDS)** system - one of the many e-services of Dubai Municipality. The WDS can be accessed at the Dubai Municipality's website – waste.dm.gov.ae - upon log-in with a business user ID and password. The WDS system conveniently allows applicants to file disposal request 24/7, views request status, including online payment of disposal charges and for printing on-line WDS Permit upon approval.

To gain access of this on-line service, **Hazardous Waste Generators (HWG)** must register online to secure a USERNAME and PASSWORD to the DM's portal or web page. *Annex 2* shows the registration procedures.

2.0 Legal Framework, Circulars, and Guidelines

2.1 The relevant provisions of the following laws and regulations were used as guidance and reference in the preparation of this technical guideline:

- Federal Law No. 12 of 2018 On the Integrated Waste Management
- Executive Council Resolution No. (58) of 2017 Approving the Fees and Fines for Waste Disposal in the Emirate of Dubai
- Federal Law (No.) 24 of 1999 and modified by Federal Law (No.) 11 for 2006 regarding Protection & Development of the Environment.
- Executive Order of Federal Law No. 24 of 1999 for Regulation of Handling Hazardous Materials, Hazardous Wastes and Medical Wastes, issued by Cabinet Decree No. 37 of 2001
- Local Order (No.) 61 of 1991 on the Environment Protection Regulations in the Emirate of Dubai
- Local Order No. (115) of 1997 Concerning Medical Wastes Management in the Emirate of Dubai
- Code of Practice on The Management of Medical Wastes from Hospitals, Clinics and Related Health Care Premises in Dubai (1997)
- Local Order (No.) 7 of 2002 on Management of Waste Disposal Sites in the Emirate of Dubai; as amended by Local Order No. (5) of 2003

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2.2 The related circulars, guidelines, and posted information bulletin of this guideline is posted in Dubai Municipality's website - www.dm.gov.ae link to Environment and Coast, Waste Management Department.

2.3 The classification of hazardous wastes in the Emirate of Dubai is presented in *Annex 5*.

3.0 Scope and Coverage

3.1 This Guideline is applicable to all hazardous waste resulting from a legal or authorized business activity of a person, party, organization or of industrial or commercial establishment that is duly registered or licensed to operate in the Emirate of Dubai including Free Zone areas.

3.2 It also applies to other governmental organizations that, in one way or another, related to the generation and control of the hazardous waste material.

4.0 Application for the Disposal of Hazardous Waste

4.1 Only companies who generate hazardous waste should submit their waste disposal request online to Dubai Municipality through the WDS system. Relevant documents as described in *Section 5* shall be attached in the WDS application. File attachments should be in **PDF** formats only.

4.2 Total amounts of waste to be declared in the disposal request shall be in metric tons estimated for the wastes already accumulated plus waste to be generated for next three (3) months, since permit once approved will be valid for Three (3) months only. There is no possibility of validity extension in case the paid permit remained unused or partially used after the permit expiry.

4.3 Any company that will generate or has history of generation of at least or more than 300 m³/year (12 months) of hazardous wastewater will be required to install an onsite wastewater treatment plant (WTP). Otherwise, waste generator have the option to subcontract the treatment of liquid hazardous waste to a private 3rd party Company that have an approved facility for the activity of Waste Water & Hazardous Liquids Treatment. A "WDS Permit" is required to transport the liquid waste to 3rd party facility.

4.4 Wastewater that exceeded the sewer discharge limit as presented in Annex 3 shall be neutralized at the source to a non-corrosive state.

4.5 Exact address of the facility where wastes are generated and stored shall be specified in the waste location details in the application.

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5.0 Required Documents to be Attached in the Application

5.1 **Analysis Report from any accredited laboratories from Emirates International Accreditation Centre (EIAC)** for the following waste types and the minimum required parameters to be analyzed as per the *Table 1* below.

Table 1 – Parameters for Laboratory Analysis

Waste Type	Parameters
For Wastewater	pH, Total Suspended Solids, Total Dissolved Solids, BOD ₅ , COD, Oil/grease(emulsified), Free Oil, Sulfates, Sulfides, Ammoniacal Nitrogen, Metals (Al, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Ag, Se, Zn), and Total heavy metals.
	To add the following parameters for specific industry
	Metal Processing Industries: <i>Chlorides, Cyanides as CN, Fluoride, Ammonia-Nitrogen, Phenols, % HCl, Metals (B, Fe, % Iron).</i>
	Food Processing Industries: <i>Ammonia-Nitrogen, Fecal Coliform, E-Coli.</i>
	Wastewater mixed with ink, paints, solvents, etc: water content.
	Mixed with Solvent: <i>to include parameters for Solvent wastes if waste has more than 10% solvent or include Flash Point if COD exceeded 100,000mg/L.</i>
For Sludge & contaminated soil	pH, % Solids (fixed/volatiles/total), moisture content (%), chloride, Oil content (% by weight), flash point (°C), Metal Concentration and Metal TCLP (As, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Sn, Zn). For contaminated soil due to fuel spill more than 10 liters: Total Petroleum Hydrocarbon and BTEX (benzene, toluene, ethyl benzene, and xylenes).
For Used Chemicals, inks, paints, solvents, etc.	pH, % Solids, volatiles, hydrocarbon, water content (%), Flashpoint (°C), Oil content (% by weight), Metals (Al, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Ag, Zn), and Total heavy metals.

Note: Sampling and Test method for all the above parameters shall be approved by EIAC

5.1.1 **The laboratory analysis report shall not be more than 1 month from sampling date.** New analysis report is required for every permit application. Other tests may be required by the WDS reviewer to further determine the hazardous nature of the waste.

5.1.2 Waste (except for wastewater) generated regularly, well characterized and consistent quality would require a new laboratory analysis report only once every year or as maybe required by the WDS reviewer. To be classified in this waste category, the company should at least applied for the same type of waste

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with corresponding laboratory analysis for no less than 5 years. For hazardous wastewater generated regularly, new analysis report is required semi-annually or as may be required by the WDS reviewer.

5.1.3 Samples shall be collected only by EIAC Accredited Laboratories from the waste generator's facility. Photo documentation during sampling should also be attached in the WDS Application. Waste sampling and analysis shall be in accordance with the EIAC analysis procedures.

5.2 **For first time applicant**, the following are required to be attached in the application:

- Description with flowchart of the process sources of waste.
- Description and drawing details of wastewater treatment system plus details of wastewater holding tanks with connection to sewer lines (if any).
- Location plan of the premises and site drainage plan.

5.3 **For all expired/unused goods or products**, which are declared waste and unsuitable for use in its original form, the owner of waste must provide the following:

- Material Safety Data Sheet (MSDS) (if applicable).
- Shipping/importation documents, including:
 - Bill of Lading.
 - Bill of Entry (Customs Declaration).
 - Certificate of Country of Origin.
 - Packing List.
 - Purchase Order.
- Certificate of Manufacturing & Expiry Dates.
- Inventory of chemicals for 2 or more items, template as specified in WDS.

Note: Any product, goods, or merchandize being applied for disposal will be assessed based on the submitted documents.

5.4 Photos of the waste, including:

- Photos of waste inside the container; Photos of the container.
- Photos of the labels including manufacturing and expiry date.
- Photos showing all the wastes (example: photo packed in pallet).
- Photos of the area on where and how the waste is generated and stored.

5.5 Instructions and required attachments for specific type of wastes

5.5.1 **Pharmaceuticals, drugs** – a Medicine Disposal Certificate approved from Ministry of Health for expired pharmaceutical products generated from drug distributor and traders;

5.5.2 **Medical Wastes** – Collection, handling, and disposal procedure of medical/clinical waste are explained in the *Code of Practice on the Management of Medical Wastes from Hospitals, Clinics, and Related Health care Premises in Dubai (1997)*.

5.5.3 **Aerosol or pressurized containers** – Aerosol or any pressurized containers in general cannot be disposed of in the landfill due to their explosive/flammable

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nature. These type of containers shall first be fully depressurized and punctured safely. Supporting photos that the requirements were properly adhered to shall be attached in the WDS application. Expired aerosol products shall be sent back to the manufacturer for processing or to a DM accredited waste processing facility.

- 5.5.4 **Asbestos contaminated materials** – Attach photos of the wastes which will be handled as per the Technical Guideline for Safety in Handling Asbestos.
- 5.5.5 **Flammable Wastes** – Provide a separate disposal request for chemicals with a flash point of below 60°C. The flash Point can be found in the MSDS and/or through a Flash Point analysis by a DM accredited laboratory.
- 5.5.6 **Chemical Wastes** – Chemical wastes shall be segregated and applied for separately based on their compatibility in the WDS which is categorized according to waste type (e.g. flammables, acids, alkalis, oxidizer, and/or by reactivity). Incompatibles are those pairs of substances that, when mixed, will either react violently or emit flammable or poisonous gases or vapors. Compatibility information is available on the MSDS of the chemical.
- 5.5.7 **Sludge** – sludge shall be dewatered to spadable consistency and with no free liquid. Sample collection for laboratory analysis shall be conducted only when the sludge condition has been met.
- 5.5.8 **Empty Chemical Containers** – Empty tin cans must be pressed/flattened in the waste generator site prior to collection for transport to designated disposal site.
- 5.6 **Waste from Vessel or Ship in Port** – Waste coming from Vessel/Cruise Ship arriving in any port of Dubai shall attach Advance Notification Form for Waste Delivery signed by the captain of the vessel or ship and by the Port Reception Facility.
- 5.7 **Waste from Jebel Ali Freezone Companies (JAFZA), Technopark, and Dubai Ports** - Attach Trakhees Approval and Inspection Report for each disposal request made online.

6.0 Collection and Storage of Hazardous Waste

All hazardous waste generators shall observe the general rules below:

- 6.1 Determine a suitable place for the storage of hazardous materials that meets safety requirements and which prevents any harm to the public. Minimum separating distance between incompatible chemicals must be observed.
- 6.2 Provide special containers with the following requirements: a) are made of block material which are free of holes; b) which will resist any leakage; c) which are provided with tight caps and seals and d) are of a sufficient capacity to store the hazardous waste.

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- 6.3 Place clear marks on hazardous waste storage containers that state the containers' content and indicate the hazards which might arise upon improper handling of such materials.
- 6.4 Set up a time schedule for the collection of hazardous waste so as not to be left for a long period in storage containers.
- 6.5 In case of mobile containers, the hazardous waste generating party shall not place such a container in any public area and shall not damage the environment.

7 Pre-Transport Requirements

Before waste are transported, waste generators shall ensure that the risk of untoward incident which can arise during transport shall be minimized, and shall not cause any form of pollution either on ground, water or air environment.

8 Disposal Fees:

- 8.1 The "Schedule of Fees and Charges" in Table 2 were determined as per Local Order No. (7) for the year 2002 on Management of Waste Disposal Site in the Emirate of Dubai.
- 8.2 Disposal fees for hazardous waste disposal are computed based on the type and nature of waste, quantity, preferred treatment or disposal means as summarized in Table 2 below.

Table 2 – Fees of Disposal

Waste Type	Fees in AED
Solid difficult waste	50/ton
Wastewater (not complied the maximum allowable limit for discharge to sewerage system as per Annex 3)	150/ton
Hazardous waste (except wastewater)	150 to 200/ton
Hazardous wastes in drums (except wastewater)	200 to 250/ton
Flammables and materials which require special treatment	100dhs/drum
Contaminated materials	150 ton
Medical waste (Private Sector)	4dhs/kg
Medical waste (Government Sector)	2dhs/kg

Note : ton means metric ton = 1,000 kg, and any fraction thereof will be counted as 1 ton or 1m³ or 1 drum for the purpose of computing fees
1 Drum = 200Kg, this can include loose items such as laboratory chemicals

- 8.3 New disposal fees will be implemented after public circulation as per Executive Council Resolution No. (58) of 2017 Approving the Fees and Fines for Waste Disposal in the Emirate of Dubai as shown in Annex 4.
- 8.4 AED 250 fee will be paid by the owner of waste who wishes to obtain a "Destruction Certificate" as a proof that the waste has been accepted and disposed of at any DM

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controlled waste treatment site. The waste generator/applicant must log-in using **Google Chrome** at waste.dm.gov.ae as business with your UAE pass/DM ID. Click Apply for Service - “Request for Permit of Wastes Disposal (Hazardous/Trade Wastes/Unwanted Materials)”, Choose “**Disposal Certificate**” in the request Type, select for WDS permit on the drop down list, Get details and pay the corresponding fee online.

8.5 Upon the approval of the WDS application, an e-mail will be sent to the HWG/applicant which will indicate payment details (amount in AED and voucher number), which can be paid through the Dubai Municipality’s E-payment services system.

8.6 An application with approved pending payment status will be cancelled 30 days after the approval date if no payment is made.

9 Transport and Disposal of Approved Waste:

9.1 Upon payment of disposal fee, the HWG/applicant shall contact the disposal facility to arrange the waste disposal schedule and any other arrangements. Alternatively, the HWG/applicant has the option to instead contact any of the approved hazardous waste transporters to schedule the disposal on behalf of the HWG/applicant.

9.2 All permitted waste shall be disposed of only at the designated site within three months from the date of approval or as per the schedule set by the disposal facility. Otherwise, the permit is considered invalid.

9.3 Delivery of the permitted waste to the disposal site shall be made only through an approved vehicle and transporter that holds a valid permit in accordance with the requirements of Dubai Municipality.

9.4 All HWG/applicants must ensure that a printed copy of the WDS Permit is provided to the designated transporter when delivering the permitted waste to the site. A copy of the approval certificate will serve as the consignment document and, without it, the transporter carrying the waste will be prohibited to transport the waste.

9.5 All waste delivered and accepted at the disposal facility that is in excess of the approved quantity will be accounted for. The HWG/applicant will be automatically notified through e-mail and SMS message of such excess, and payment for this shall be settled within 7 days. No succeeding request will be approved if there are unsettled payments.

For further information please visit

www.dm.gov.ae

or contact

Waste Treatment Section

Tel.: (04) 6066279 / (04) 6066044 / (04) 6066817

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Annex 1

Definition of Terms

For the exclusive use of this guideline, the following terms, phrases, acronyms and definitions apply:

Disposal - Refers to any or combination of the following means or processes where a waste is subjected to or rendered for:

- Direct tipping into landfill;
- Incineration, burning or combustion in controlled manner for the purpose of getting rid of waste material;
- Final deposit at any DM waste treatment complex or landfill;

The process of segregation and recovery of the materials for the purpose of recycling or reuse is not considered a disposal.

Disposal Site – The site with defined area and boundaries intended for as the final depository of waste. It may be a final depository site of lined or unlined landfill or any dedicated facility for waste treatment.

In the case of waste intended for export, the name of the receiving state or locality shall be referred to as the disposal site.

EIAC– Emirates International Accreditation Centre (previously Dubai Accreditation Centre) – The competent authority who is responsible for the accreditation of private company laboratories for environmental testing.

Environmental Standards - Within the context of this document and pursuant to Local Order on the Environment Protection Regulations in the Emirate of Dubai, are the specified values of environment quality indicators or allowable limit of pollutants in the waste stream when discharge into a segment of environment, beyond which, it can cause pollution and impair the quality of the environment.

Hazardous Materials - Solid, liquid or gas materials hazardous to mankind health severely affect the environment such as toxic explosive, flammable or ionized radiation materials.

JAHWTF/JADS - The Jebel Ali Hazardous Waste Treatment Facility / Jebel Ali Difficult Waste Landfill operated/managed by the Waste Management Department.

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Landfill - An area generally used for disposal of solid wastes by burial. It is either an ordinary unlined landfill or an engineered landfill with basal lining of an impervious material and fitted with leachate collection system.

MSDS – Material Safety Data Sheet – is a document that contains information on the hazard evaluation on the use, storage, handling and emergency procedures related to that material.

Recyclables – Waste materials that are broadly classified, within the context of this Policy, as the “*recyclables*” which contain valuable materials meant for recycling or reuse. Recyclables include, for example, papers, plastics, cartons, wood, metals, glass, tyres, textile, lead-acid batteries, Hybrid and Electric Vehicle Battery (EVB) such as Li-ion and NiMH & other EVB, automobiles, WEEE, and many other similar discarded used products.

Sludge - Means a solid waste or granular waste at spadable consistency with no free liquid which has been obtained from the treatment of waste or process refuse from a commercial or industrial operation.

Treatment (of waste) - Means an induced change, normally carried out in a treatment facility, in the physical or chemical composition of the waste so as to make it less hazardous, less in volume, and acceptable for final disposal.

Waste – means any material disposed of because it is no longer needed. It includes general wastes, hazardous wastes, difficult waste and other wastes as classified so by Waste Management Department.

Difficult Waste – is the non-hazardous material which requires special handling to avoid any unacceptable annoyance or environmental impact.

Electric-Vehicle battery (EVB) is a battery used to power the electric motors of a battery electric vehicle (BEV) or hybrid electric vehicle (HEV).

Hazardous waste (a) – is a waste or mixture of wastes containing one or more properties of a hazardous substance, i.e., being toxic, infectious, corrosive, flammable, oxidizing, radioactive, reactive or explosive which, at certain concentration or condition and improper handling, can cause substantial harm to human, properties or to the environment.

Hazardous waste (b) – In addition to the above descriptions, the following wastes are also considered as hazardous waste:

- (a) Medical wastes,
- (b) WEEE or E-Waste, EVB (Li-ion/NiMH) due to its harmful components,

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- (c) Any other waste unsuitable for direct disposal into the traditional landfill or sewer system due to the presence of hazardous chemical or physical components harmful to the environment.

Trade Wastewater – is a non-hazardous wastewater generated and discharged from industrial operations or commercial other than domestic wastewater.

Unwanted material – is any material/goods declared by their owner to be unwanted and require disposal, or of which a decision for their destruction/disposal is issued by a competent authority, or that proper disposal requires a special care.

Medical Wastes – Any wastes made in whole or part of human tissue, animal tissue, blood or other body liquids, secretions, drugs or other pharmaceutical products, bandages, syringes, needles or other medical sharp objects, or any other wastes whether contagious chemical or radioactive produced by medical activities, nursing, treatment, medical care, dental, veterinary or pharmaceutical or processed activities or other, tests, research works or study materials or sampling or storage of the same.

Wastewater - All spent water discharged from any activity of man or industrial process. For the purpose of this document it is further classified into 2 types namely; a) domestic wastewater, and b) trade wastewater.

Waste Generator (WG) – Any person or party who produces the waste material and/or the Occupier and/or Owner of the premises or facility where the waste is generated. The waste generator is also the "*Owner of waste*"

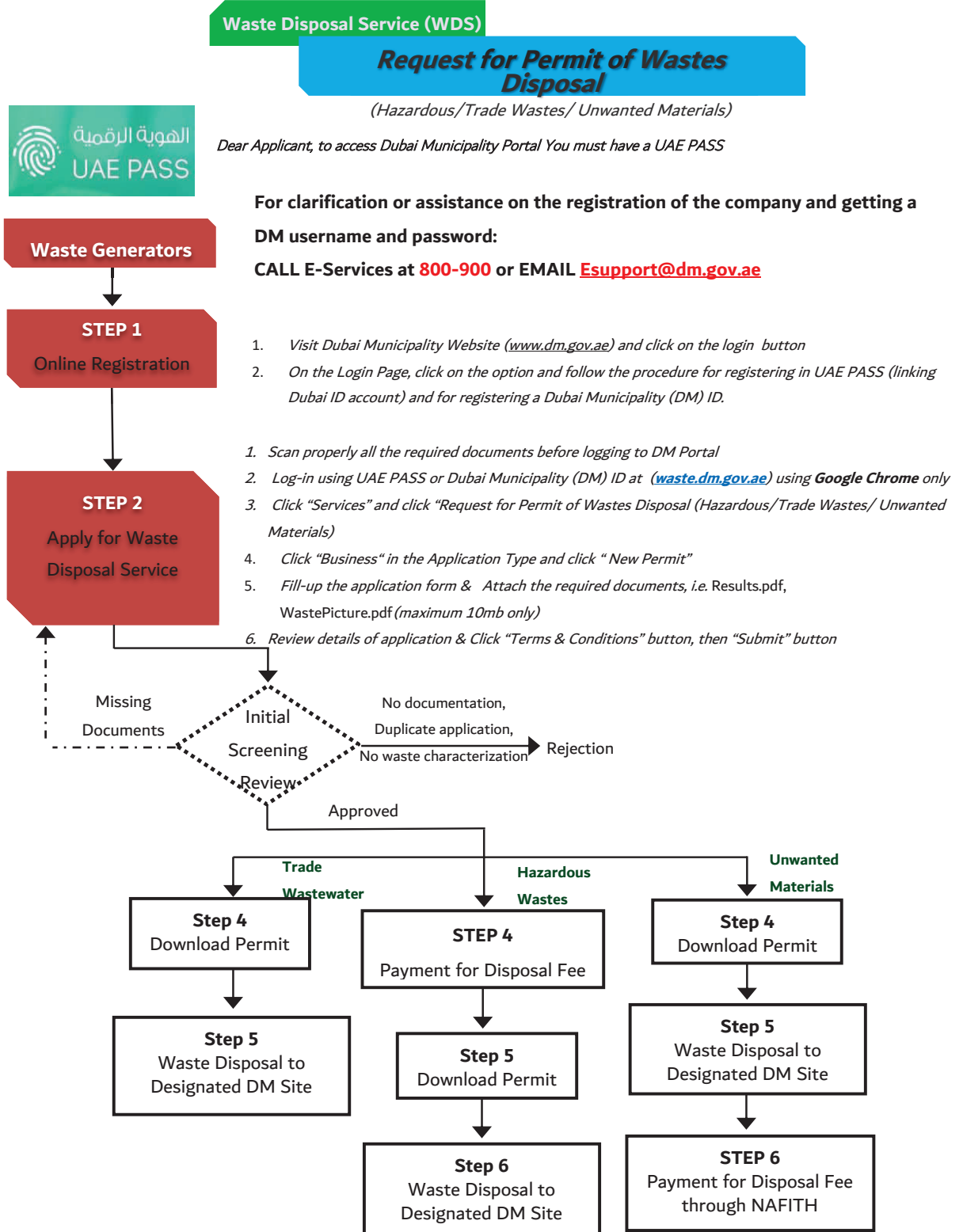
WDS – Waste Disposal Service - an online permitting system for disposal of all types of waste/wastewater (except domestic waste) generated in the Emirate of Dubai.

WEEE - Refers to the discarded obsolete or broken waste electrical and electronics equipment. WEEE is classified, in this document, both as special waste and as hazardous waste due to the economic value of the recyclable components and to the hazardous nature of some parts thereof. It is also called **e-waste**.

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Annex 2

Online Registration & WDS Application Procedures



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Annex 3

Dubai Wastewater Discharge Limits

INDICATORS		*Maximum Allowable Limits for Discharge to		
		Sewerage System	Land as for Irrigation	
<i>Physico-Chemical</i>	<i>Units</i>			Drip
Biochemical Oxygen Demand	mg/l	1,000	20	10
Chemical Oxygen Demand	mg/l	3,000	100	50
Chlorides	mg/l		500	350
Chlorine – residual	mg/l	10	Not less than 0.5 mg/l after 30 min contact time	
Cyanides as CN	mg/l	1	0.05	0.05
Detergents	mg/l	30		
Fluorides	mg/l		1	1
Nitrogen, ammoniacal	mg/l	40	5	1
Nitrogen, organic (Kjeldhal)	mg/l		10	5
Nitrogen, total	mg/l		50	30
Oil & Grease – Emulsified	mg/l	150		
Oil & Grease – Free oil	mg/l	50	5	5
pH (range)	units	6 – 10	6.0 – 8.0	6.0 – 8.0
Pesticides, non-chlorinated	mg/l	5		
Phenols	mg/l	50	0.1	0.1
Phosphorous (P)	mg/l	30	20	20
Sulfates, total	mg/l	500	200	200
Sulfides as S	mg/l	10	0.05	0.05
Surfactants	mg/l			
Suspended Solids (SS)	mg/l	500	50	10
Temperature	°C	45 or > 5 of ambient		
Total Dissolved Solids (TDS)	mg/l	3,000	1,500	1,000
Metals				
Total Metals	mg/l	10		
Aluminum (Al)	mg/l		2	2
Arsenic (As)	mg/l	0.50	0.05	0.05
Barium (Ba)	mg/l		1	1
Beryllium (Be)	mg/l		0.1	0.1
Boron (B)	mg/l	2.0	2.0	2.0
Cadmium (Cd)	mg/l	0.3	0.01	0.01
Chromium (Cr)	mg/l	1.0	0.1	0.1
Cobalt	mg/l		0.1	0.1
Copper (Cu)	mg/l	1.0	0.2	0.2
Iron (Fe)	mg/l		2.0	2.0
Lead (Pb)	mg/l	1.0	0.5	0.5
Magnesium (mg)	mg/l		100	100
Manganese (Mn)	mg/l	1.0	0.2	0.2
Mercury (Hg)	mg/l	0.01	0.001	0.001
Molybdenum (Mo)	mg/l		0.01	0.01
Nickel (Ni)	mg/l	1.0	0.2	0.2
Selenium (Se)	mg/l		0.02	0.02
Silver (Ag)	mg/l	1.0		
Sodium (Na)	mg/l		500	200
Zinc (Zn)	mg/l	2.0	0.5	0.2
Bacteriological				
Fecal Coliforms	MPN/100 ml.	500	20	

Ref: Environmental Standards and Allowable Limits of Pollutants on Land, Water, and Air Environment, May 2003

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	Form sheet title:	Hazardous Waste Disposal	اسم النموذج :	
	Doc Ref.:	DM-WMD-WTS-TG-8	رقم النموذج :	

Annex 4

New Fees of Disposal

Table below shows new disposal fees based on waste acceptance policy translation of *Executive Council Resolution No. (58) of 2017 Approving the Fees and Fines for Waste Disposal in the Emirate of Dubai.*

Waste Generator will be advised thru a public circulation on its implementation date

Waste Type	Fees in AED
Solid difficult waste	200/ton
Wastewater (not complied to any of the maximum allowable limit for discharge to sewerage system)	200 to 500/ton
Hazardous waste (<i>except wastewater</i>)	200 to 500/ton
Hazardous wastes in drums (<i>except wastewater</i>) (200liter cap)	700/ton
Flammables and materials which require special treatment	1,000/ton
Contaminated materials	200 ton
Empty chemical containers	400/ton
Empty contaminated bags	100/100kg
Firework, firecrackers, and other explosives not subject to other legislation	200 ton
Medical waste (Private Sector)	6/kg
Medical waste (Government Sector)	3/kg

Note : ton means metric ton = 1,000 kg, and any fraction thereof will be counted as 1 ton or 1m³ for the purpose of computing fees

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Annex 5

Classification of Hazardous Wastes in the Emirate of Dubai

Class Code	Waste Type	Sub-class Code	Sub-class Waste
W1	Medical Waste and Infectious Waste	1.1	Human-based biomedical or clinical wastes
		1.2	Biomedical waste from veterinary clinics
		1.3	Infected Dead Animals
W2	Wastewater	2.1	2.1.1 (Wastewater) Inorganic source - others
			2.1.2 (Wastewater) Inorganic source - Vehicle Maintenance Activity
		2.2	2.2.1 (Wastewater) Organic source - others
			2.2.2 (Wastewater) Organic source - Ink and Painting Activity
			2.2.3 (Wastewater) Organic source - Food Industry
		2.3	(Wastewater) Oily source
W3	Paint, Resin, Ink, Latex, etc.	3.1	(Paint, Resin, Ink, Latex, etc.) - Expired (unused) product - Solid
		3.2	(Paint, Resin, Ink, Latex, etc.) - Expired (unused) product - liquid
		3.3	(Paint, Resin, Ink, Latex, etc.) - Residues from use or process - solid
		3.4	(Paint, Resin, Ink, Latex, etc.) - Residues from use or process - liquid
W4	Contaminated Materials	4.1	(Contaminated Materials) - Contaminated Empty Chemical Containers
		4.2	(Contaminated Materials) - Used oil filters
		4.3	(Contaminated Materials) - Contaminated Used Rags
		4.4	(Contaminated Materials) - Contaminated Soil
		4.6	(Contaminated Materials) - Empty Pesticide Containers
		4.5	(Contaminated Materials) - Other contaminated materials
W5	Organic Waste	5.1	(Organic Waste) - Waste treatment residues Solids
		5.2	(Organic chemical wastes) Expired product
		5.3	(Organic chemical wastes) Process refuse
		5.4	(Organic Waste) - (STP sludge) Digested/treated
		5.5	(Organic Waste) - Pump pit/holding tank cleaning
W6	Inorganic Waste	6.1	(Inorganic Waste) - (Waste treatment residues) Solids
		6.2	(Inorganic chemical wastes) Expired product
		6.3	(Inorganic chemical wastes) Spent catalyst
		6.4	(Inorganic chemical wastes) Process refuse
W7	Grits waste	7.1	(Grits waste) - Garnet (blasting activity)
		7.2	(Grits waste) - Waterjet cutting abrasives
		7.3	(Grits waste) - Grits of iron/other metal
		7.4	(Grits waste) - Copper grits
		7.5	(Grits waste) - Other abrasive media (non-metallic)
W8	Pharmaceutical Waste	8.1	(Pharmaceutical Waste) - Expired solids and unsafe medicines, drugs, pharmaceuticals

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Class Code	Waste Type	Sub-class Code	Sub-class Waste
W8	Pharmaceutical Waste	8.2	(Pharmaceutical Waste) - Expired liquids and unsafe medicines, drugs, pharmaceuticals
		8.3	(Pharmaceutical Waste) - Wastes from manufacturing or formulation
		8.4	(Pharmaceutical Waste) - Controlled substance/ anti-neoplastics
W9	Pesticides & Biocide	9.1	(Pesticides & Biocide) - Solids
		9.2	(Pesticides & Biocide) - Aqueous
W10	Organic Solvent	10.1	(Organic Solvent) - Spent solvent in liquid form
		10.2	(Organic Solvent) - Solvent mixed with solids
		10.3	(Organic Solvent) - Expired (unused) Solvent
		10.4	(Organic Solvent) - Used Perchloroethylene (Dry Cleaning Waste)
W11	Inert Waste	11.1	(Inert Waste) - Asbestos wastes, Friable
		11.2	(Inert Waste) - Asbestos wastes, Non-Friable
W12	Metal Treatment Waste	12.1	(Metal treatment wastes) Sludge
		12.2	(Metal treatment wastes) Aqueous
W13	Acid	13.1	(Acid wastes) Solids
		13.2	(Acid wastes) Aqueous
W14	Alkali	14.1	(Alkaline wastes) Solids
		14.2	(Alkaline wastes) Aqueous
W15	Waste Chemical	15.1	(Waste Chemicals) School Laboratory Chemicals
		15.2	(Waste Chemicals) Expired unused product
W16	Oily Waste	16.1	(Oily Waste) - Waste lube oil and similar oil (liquid)
		16.2	(Oily Waste) - Oil sludge
		16.3	(Oily Waste) - Other oil-contaminated wastes
W17	Explosive not subject to other legislations and reactive wastes	17.1	(Explosive not subject to other legislations and reactive wastes) - Substance that gives off heat when explode
		17.2	(Explosive not subject to other legislations and reactive wastes) - Substance that emits toxic fumes when explode
		17.3	(Explosive not subject to other legislations and reactive wastes) - Substance that react violently with water
		17.4	(Explosive not subject to other legislations and reactive wastes) - Flares and other safety device with explosives
W18	E-Wastes and other special wastes	18.1	(Waste electrical and electronic equipment (WEEE) electronic gadgets, computers, and other electronic gadgets
		18.2	(Spent batteries) Spent lead-acid batteries, whole or crushed
		18.3	(Spent batteries) Alkaline and other types such as Li-ion/NiMH
		18.4	Pressurized gas cylinders/aerosols
		18.5	Mercury containing wastes (thermometers, switches, fluorescent lighting, etc.)
W19	Other Waste	19	Other Waste