

# WASTE MANAGEMENT SERVICES

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ABU DHABI PORTS

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# 1 INTRODUCTION

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## 1. INTRODUCTION

- 1.1 The International Convention for the Prevention of Pollution from Ships 1973, and its 1978 Protocol (MARPOL 73/78) contains regulations and requirements for the prevention of pollution by oil, harmful substances in packaged form, sewage, garbage and the control of pollution by noxious liquid substances. The regulations are contained in annexes to MARPOL 73/78.
- 1.2 The United Arab Emirates (UAE) Government has an obligation to ensure that Port Authorities of the UAE provide adequate port waste reception facilities.
- 1.3 The Government meets this obligation by placing a statutory duty on Port Authorities to ensure the provision of port waste reception facilities is consistent with the requirements of MARPOL 73/78.
- 1.4 In addition to this the vessels operating in Arabian Gulf are subject to ROPME regulations.
- 1.5 Abu Dhabi Ports is the statutory Port Authority for all the Ports in Emirates of Abu Dhabi, excluding the Oil and Military ports.
- 1.6 Abu Dhabi Ports, as the port authority is responsible for ensuring the provision of pilotage, berthing assistance tugs and port waste reception facility for the vessels calling Abu Dhabi Ports.
- 1.7 This brochure provides information on waste management services in all the Abu Dhabi Ports. The waste management services related documents, circulars, forms and effective tariff are available on Abu Dhabi Ports Website [www.adports.ae](http://www.adports.ae).
- 1.8 The Abu Dhabi Ports Waste Management Plan includes all berths and terminals of all the ports of Abu Dhabi Ports, with the exception of the Khalifa Port container terminal and EMAL Jetty which is independently operated by Abu Dhabi Terminals (ADT) and EMAL respectively. The Abu Dhabi Ports Waste Management Plans is approved by Department of Transport Abu Dhabi (DoT).
- 1.9 The waste management services in all the ports of Abu Dhabi Ports is managed by Abu Dhabi Ports HSE and provided through the licensed waste management services contractor approved by Centre of Waste Management Abu Dhabi (CWM). No other waste management service contractors are allowed to provide the services in any of the Abu Dhabi Ports (except for western region ports) unless specific permission is obtained from the Abu Dhabi Ports by the shipping agents.

## 2 OVERVIEW OF ABU DHABI PORTS

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## 2. OVERVIEW OF ABU DHABI PORTS

### 2.1 Khalifa Port (KP)

Inaugurated on December 12th, 2012, located halfway between Abu Dhabi and Dubai at Taweelah, handles containers, general cargo, and serves Emirates Aluminium (EMAL), semi-automated container terminal.

- Annual capacity of 2.5 million TEU containers a year plus 12 million tons of cargo
- Projected 15 million TEU containers a year by 2030, and 35 million tons of cargo
- Quay length: 3.2 kilometers
- Draft: 16 meters deep alongside quay
- Size: 9.1 square kilometers

### 2.2 Zayed Port

Zayed Port is Abu Dhabi's oldest commercial port and has been the main city port for the last 40 years. Located in the north eastern part of the emirate, it covers an area of 5.1 square kilometers and consists of three basins:

- Zayed Port basin for deep-water vessels (cruise liners and general cargo vessels)
- Free Port basin for smaller vessels, tugs, barges and service crafts
- New Free Port basin for lay-by and vessels that require minor repairs

2.2.1 After moving all container traffic to the deep water Khalifa Port, Zayed Port handles the growing RoRo, general and bulk cargo volumes as well as the emerging cruise business, with future plans to develop the port as a world class cruise destination.

2.2.2 The first phase of the cruise terminal's development has now been successfully completed, offering accommodation for two large cruise ships and one small vessel as well as a wide range of tourist friendly facilities. The upcoming development phases of the cruise terminal focus on a state-of-the-art terminal building and a traditionally themed souk and heritage area, with activities for both passengers and the general public.

2.2.3 Zayed Port's convenient central location makes it attractive to a growing number of cruise tour operators, as it offers easy access to Abu Dhabi's expanding leisure experience and growing range of luxury hotels and resorts.



2.3 Ports throughout Abu Dhabi Emirate

Abu Dhabi Ports is developing the following ports, terminals and multiple marine facilities:

2.3.1 Sila North Port

One port, used mainly for freight and fishing; ADNOC fuel pontoon to serve the local community will be installed; general cargo and vehicular traffic; quay length is 373 meters.

2.3.2 Delma

Four port terminals: fishing, passenger, cargo, Ro/Ro; a single multi-purpose port is planned, with berthing for 300 boats, as well as a ferry terminal for passenger vessels.

2.3.3 Sir Bani Yas

One terminal; 3 Ro-ro ramps; a boat pontoon and control office; handles general cargo; quay length is 180 meters.

2.3.4 Mugharrag

One terminal linked to Delma and Sir Bani Yas islands; 5 Ro-Ro ramps; new development will deliver new slipways, a deeper basin, revetment for shoreline protection, improved fendering, etc.

2.3.5 Musaffah

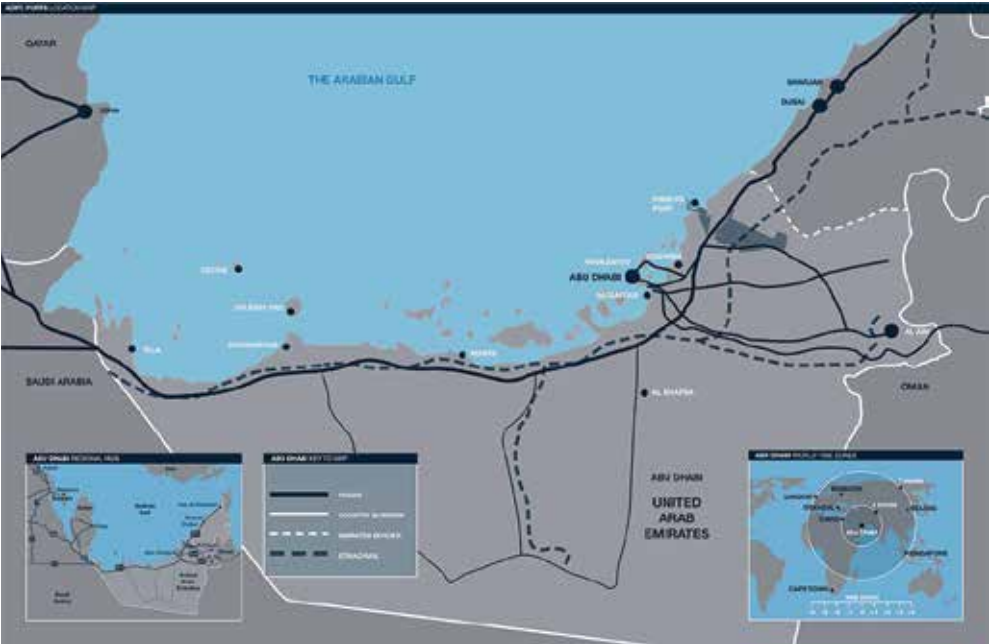
One port, with extensive waterfront; Abu Dhabi Ports has been managing the newly opened AED 1.5 billion Musaffah Channel, 53 kms in length,

2.3.6 Shahama

One seafront property under development for leisure and watersports activities.

2.3.7 Marfa

One port: being redeveloped into a multi-purpose venue, with fishing and recreational space for 120 boats; pontoon for 8 fishing boats; dry berth for 200 boats; 140 meter quay length



## 3 WASTE MANAGEMENT SERVICES AT ABU DHABI PORTS

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### 3. WASTE MANAGEMENT SERVICES AT ABU DHABI PORTS

#### 3.1 Khalifa Port (KP)

The KP mainly consists of three terminals as mentioned below and shown in Fig number-2:

- Container Terminal (Operated by ADT)
- Bulk Terminal, for exclusive use of EMAL (Operated by EMAL)
- General, RORO & Bulk Cargo Terminal (Operated by Abu Dhabi Ports)

3.1.1 The terminal operators are responsible for providing the waste management services to the vessels berthing the individual terminals at a standard terminal respective waste management services tariff in compliance with Abu Dhabi Ports Policies, Rules and Regulations and Requirements.

#### 3.2 Zayed Port (ZP), Free Port (FP) & New Free Port (NFP)

3.2.1 The ZP is exclusively managed by Abu Dhabi Ports and mainly consists of cruise, RORO, Bulk and General Cargo terminal and comprises of 21 Berths and other marine services facilities as shown in the Figure Number -3.

3.2.2 Free Port is catering smaller vessels, tugs, barges and service crafts. It has 49 berths with total length of 2,929 meters with depth ranging from 6-8 meters. New Free Port is for lay-by and vessels that require minor repairs and consists of 32 berths with total length of 2180 meters and depth of 6-8 meters. Figure Number 4 -5

3.2.3 The waste management services to ZP, FP & NFP are provided solely by Abu Dhabi Ports at the standard waste management services tariff approved by DoT.

#### 3.3 Musaffah Port

3.3.1 The port of Musaffah has an extensive water frontage with up to 40 kilometers of waterside land either developed or available for development for multiple industrial purposes. The new deep water channel into the port area has provided the opportunity for larger ships with deeper draughts to access the numerous berths and terminals. Although most of the berths are adjacent to private terminals, Abu Dhabi Ports operates a general cargo terminal at the northern end of the industrial area. Other major terminals are iron ore imported by Emirates Steel and a number of facilities serving the off shore oil industry. Musaffah also has extensive oil rig and ship building industries in the port.

3.3.2 The waste management services at Musaffah port are provided solely by Abu Dhabi Ports at the standard waste management services tariff approved by DoT.

#### 3.4 Western Region Port

3.4.1 The Abu Dhabi Ports's Western region ports (Al Sila, Mugharrag, Delma, Sir Bani Yas, Marfa) are mainly serving the local communities in the western region area while facilitating transport of people and goods to offshore islands. The waste management services at these ports can be provided by Abu Dhabi Ports as required. For the western region ports the shipping agents can also use/engage the service of independent waste management services companies approved by Centre of Waste Management Abu Dhabi (CWM), subject to approval from Abu Dhabi Ports. The waste data and reports shall be submitted to Abu Dhabi Ports on monthly basis.

### 3.5 WASTE NOTIFICATION

3.5.1 All vessels calling Abu Dhabi Ports ports must notify their waste for each call:

- At least 48 hours before arrival unless the port of call is known less than 24 hours before arrival
- Not later than at departure from the previous port, if the voyage takes less than 24 hours.

3.5.2 The master of vessel/shipping agent shall truly and accurately complete the waste advance notification form available on Abu Dhabi Ports website (port user, documentation, Advance notification form – Waste Delivery).

3.5.3 The shipping agents / vessels calling to the terminals operated other than by Abu Dhabi Ports are required to contact the respective terminal operators for the waste management services.

### 3.6 WASTE MANAGEMENT SERVICES PROCESS

3.6.1 To facilitate the waste management services for the vessels calling Abu Dhabi Ports operated terminals, the Waste Service Request Form (WSR) is being introduced by Abu Dhabi Ports to provide the first hand information to port users on the available waste services / reception facility, direct contact details of waste services provider, confirmation of required waste services and waste tariff.

3.6.2 The WSR consists of three forms (Form –A, Form-B & Form-C). The forms as applicable to the services required are to be filled by the vessels/shipping agent requiring waste services as below:

- Form-A: Standard waste services as detailed in the form
- Form-B: Any other waste services not included in Form-A
- Form-C: For recycle and potential revenue generating items

3.6.3 The Form-A is to be used when standard waste management services as detailed in Form-A is required to be availed other than the mandatory 12 CBM skip for general waste.

3.6.4 The Form-B is to be used for the services which are not specified in Form-A

3.6.5 The Form-C is to be used for recycle and revenue generating items as detailed in Form-C.

3.6.6 These forms are available on Abu Dhabi Ports website and can be downloaded.

3.6.7 The applicable form as per the service required is to be filled by service requester (shipping agent) correctly and send to the Abu Dhabi Ports Waste management services e-mail: waste.service@adports minimum 48 hours before the services required.

3.6.8 The direct contact numbers of waste management services provider are: 0564843095 (KP) and 0504843092 (MZ, FP, Musaffah). For any queries /complaints please contact HSE Inspectors (052-8002978).

3.6.9 In case, if any discrepancy is being observed for requested services in submitted WSR forms during providing the services or later; the service requester shall be liable to pay the actual cost of services provided or as determined by Abu Dhabi Ports. For example, if the submitted WSR form has request for the sewage removal and while providing the services or later if it's recognized that the discharge sewage is not meeting the sewage characteristic as stipulated by ADSSC (TDS > 3000 mg/liter, pH > 6 and < 9) or rejected by ADSSC then this sewage waste shall be treated as contaminated sewage waste and shall be charge as per the chemical sewage waste rate as prescribed in Abu Dhabi Ports Tariff.

3.6.10 The vessels using seawater/chemicals for cleaning or flushing the toilets or holding tanks may result in sewage waste with high TDS / COD exceeding sewage characteristic as stipulated by ADSSC shall be considered as chemical sewage waste and charged accordingly.

3.6.11 The used oil for disposal having water content more than 5% shall not be considered under Form-C of WSR (recycling or potential revenue generating item). The requester shall be liable to pay for all necessary arrangements / mobilization charges as determined by Abu Dhabi Ports In addition to that the used oil shall be considered as oily contaminated liquid and shall be charged as per the tariff.

3.6.12 Any WSR requested by the shipping agent, if denied later due to any reason after making an arrangement (mobilizing the equipment at site/port), than the shipping agent shall be liable to pay the applicable charges for mobilization as determined by Abu Dhabi Ports.

3.6.13 The Abu Dhabi Ports will provide one mandatory 12 CBM skip for the general waste. The WSR is only required to be raised if any additional services other than the one 12 CBM mandatory general waste skip are required.

3.6.14 The Abu Dhabi Ports shall issue/provide the vessel waste delivery receipt as per the MARPOL requirement to the vessel/shipping agent for the waste services provided to the vessel.

3.6.15 Abu Dhabi Ports encourages recycling wherever possible, provides adequate recycling bins and made other arrangements as required free of cost. The details, types and capacities of recycling facility at port waste reception facility are described below in Table-2.

# 4 WASTE CLASSIFICATION

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## 4 WASTE CLASSIFICATION

4.1 The waste is classified based on the International Convention for the Prevention of Pollution from Ships 1973, and its 1978 Protocol (MARPOL 73/78). MARPOL 73/78 covers five main forms of ship generated waste in five specific annexes as summarized below in Table-1.

**Table - 1: MARPOL Regulation on Waste Reception Facilities**

Sr. No.	Category of Waste	MARPOL Annex Applicable	Types of Waste for Reception
I	Oil	1	Covers all types of wastes from the carriage of oil, as fuel, engine room slops, cargo or dirty ballast water
II	Noxious Liquid	2	Chemical Wastes derived from bulk chemical transportation including residues and mixtures containing noxious substances
III	Harmful substances carried by sea in packaged form	3	Substances highly toxic to marine life and listed in Composite List of Hazard Profiles prepared by the IMO/FAO/UNESCO/WMO/WHO/ IAEA/UN/UNEP Joint Group of Experts and also described in IMDG Code – 2004
IV	Sewage	4	Raw sewage should be retained in holding tanks for disposal in port or outside 12nm. Partially treated sewage retained in holding tanks for disposal in port or outside 4nm.
V	Garbage	5	Garbage includes domestic (food and packaging) and operational wastes (Maintenance, cargo and miscellaneous)
VI	Air Pollution from ships	6	Not covered in this plan

4.2 The waste classification, type & capacity of waste reception facility at Abu Dhabi Ports are summarized below in Table-2&3

Table - 2: Type & Capacity of Port Waste Reception Facilities at Abu Dhabi Ports

WASTE DISPOSAL											
	Oily Wastes						Noxious Liquid Substance	Sewage	Garbage		
	Oily Bilge Water	Dirty Ballast Water	Tank Washings (slops)	Oily Mixtures Containing Chemicals	Scale & Sludge from Tank Cleaning Operations	Sludge from Purification of Fuel Oil	Categories A, B or C	Black Water Grey Water	Annex V Domestic Garbage & Food Waste of Origin	Annex V Food Waste Origin	Cargo Waste
Type of facility	Collection by road tanker	Collection by road tanker	Collection by road tanker	Collection by road tanker	Collection by road tanker	Collection by road tanker	Collection by road tanker	Collection by road tanker	Suitable containers	Suitable containers	Suitable containers
Capacity of Facility	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	2-15 yd <sup>3</sup> skip	2-15 yd <sup>3</sup> skip	2-15 yd <sup>3</sup> skip
Method of use	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service	Port arranges for waste contractor to provide service	Port arranges for waste contractor to provide service	Port arranges for waste contractor to provide service	On request from ship or agent.  Port arranges for waste contractor to provide service
Is notice required?	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Frequency of emptying	As required	As required	As required	As required	As required	As required	As required	As required	24 hrs	24 hrs	24 hrs
Total annual capacity	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires



Table - 3: Type &amp; Capacity of Recycling Facilities at Abu Dhabi Ports

RECYCLING												
General Waste										Non Hazardous Waste	Hazardous Solid Waste	
Material for recycling	PAPER / CARDBOARD	MIXED PLASTICS	METAL CANS	STEEL SCRAP	ALUMINIUM SCRAP	COOPER SCRAP	STEEL DRUMS	PLASTIC DRUMS	MOORING ROPES	WOODEN PALLETS	USED OIL	BATTERIES
Type of facility	Collection by Recycle Bins	Collection by Recycle Bins	Collection by Recycle Bins	Suitable containers	Suitable containers	Suitable containers	INTERIM STORAGE	INTERIM STORAGE	Suitable containers	Suitable containers	Collection by road tanker	Suitable containers
Capacity of Facility	120 LTRS - 8M3	120 LTRS - 8M3	120 LTRS - 8M3	8-20m <sup>3</sup>	8-20m <sup>3</sup>	8-20m <sup>3</sup>	3 TON PICK UP	3 TON PICK UP	8-20m <sup>3</sup>	20m <sup>3</sup>	2000 - 12,000 IG	8-20m <sup>3</sup>
Method of use	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service	On request from ship or agent.  Port arranges for approved Recyclers to provide the service
Is notice required?	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.	48 Hrs.
Frequency of emptying	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required
Total annual capacity	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires	As demand requires

## 5 FEES FOR THE WASTE SERVICES

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## 5 FEES FOR THE WASTE SERVICES

### 5.1 Mandatory Waste Reception Charges

All vessels calling Abu Dhabi Ports are mandatory to pay the waste services charges as follows:

- Khalifa, Zayed, Musaffah ports: @ AED 700 for 1 Garbage Skip (12 CBM).
- Free, New and other ports: @ AED 120 per visit / 24 hours.

5.2 Other waste services are available on request and charges are payable by the ship on arrival at the port and is levied at the same time as the Pilotage Dues.

### 5.3 Other Waste Management Services Charges

The Waste Management Charge covers all of the Port's costs in setting up, running and administering the Port Waste Management System and for the reception, transport and disposal / treatment of ship-generated waste. This meets the requirements of the Regulations for the charge to be in excess of 20% of the Port's total waste management costs.

The waste management services tariff is available on Abu Dhabi Ports web site <http://www.adports.ae/en/article/ports/article-6.html>

5.4 Shipping agent acting on behalf of vessel shall pay the overall cost of vessel's waste disposal services as per the issued invoice unless the vessel is under exemption by Abu Dhabi Ports.

5.5 The services utilized by Form-C of WSR for recycling and potential revenue generating items, the payment shall be made by Abu Dhabi Ports as applicable to client /Shipping agent by issuing the credit note or issuing the cheque.

## 6 REPORTING INADEQUACIES OF PORT WASTE RECEPTION FACILITIES

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## 6 REPORTING INADEQUACIES OF PORT WASTE RECEPTION FACILITIES

6.1 Vessels, and their Agents, are requested to immediately report any inadequacies in the provision of waste reception facilities to the Port's HSE Department while using Alleged Inadequacies of Port Reception Facilities Form (WMS-FRM-100-7) which can be found in Waste Management plan of Abu Dhabi Ports.

6.2 Communication on the inadequacy of the WRF shall be made by telephone, email, and fax or in person. Vessels, and their Agents, are encouraged to make complaints using an Alleged Inadequacies of Port Reception Facilities Form (WMS-FRM-100-7).

6.3 All inadequacy reports shall be investigated as soon as practicably possible after they arise. All inadequacies shall be rectified as soon as possible and recorded.

6.4 This form can be submitted to the respective terminal VTS as mentioned below in contact details.

Ports VTS Contacts				
Port Name	E-mail	Phone Number	Fax Number	VHF Channel
Khalifa Port	<a href="mailto:khalifa.vts@adports.ae">khalifa.vts@adports.ae</a>	+971 2 492 5666	+971 2 4924746	Channels 13 & 16
Zayed Port	<a href="mailto:minazayed.vts@adports.ae">minazayed.vts@adports.ae</a>	+971 2 695 2132 / 2133	+971 2 695 2936	Channel 67
Free Port	<a href="mailto:minazayed.vts@adports.ae">minazayed.vts@adports.ae</a>	+971 2 695 2134	+971 2 695 2936	Channel 11
Musaffah Port	<a href="mailto:musaffah.vts@adports.ae">musaffah.vts@adports.ae</a>	+971 2 555 2423	+971 2 510 9395	Channel 14
Western Region Ports	<a href="mailto:mugharag.portcontrol@adports.ae">mugharag.portcontrol@adports.ae</a>	+971 2 877 1493	+971 2 877 1379	Channel 8

Waste Services Provider Contacts		
Port Name	E-mail	Phone Number
Khalifa Port	<a href="mailto:Waste.services@adports.ae">Waste.services@adports.ae</a>	056 484 3095
Zayed Port	<a href="mailto:Waste.services@adports.ae">Waste.services@adports.ae</a>	056 484 3092
Free Port	<a href="mailto:Waste.services@adports.ae">Waste.services@adports.ae</a>	056 484 3092
Musaffah Port	<a href="mailto:Waste.services@adports.ae">Waste.services@adports.ae</a>	056 484 3092
Western Region Ports	<a href="mailto:Waste.services@adports.ae">Waste.services@adports.ae</a>	052 800 2248
ADT	<a href="mailto:KPOPSPLN@adterminals.ae">KPOPSPLN@adterminals.ae</a>	02 4925134
EMAL	<a href="mailto:m.aljawi@emal.ae">m.aljawi@emal.ae</a>	02 5094129 / 050 6672561

HSE Suggestions / Complaints		
Port Name	E-mail	Phone Number
Khalifa Port	<a href="mailto:hse.ports@adports.ae">hse.ports@adports.ae</a>	052 800 2081
Zayed Port		052 800 2978
Free Port		052 800 2978
Musaffah Port		052 800 2248
Western Region Ports		052 800 2248



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