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## Abbreviations

PAT	Port Authority of Thailand
BKP	Bangkok Port
ES	Environmental Section (Safety, Health and Environmental Division)
IMO	International Maritime Organization
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships
SF	Sanitary Fee
SWMM	Ship Waste Management Manual
WDR	Waste Delivery Receipt
WHS	Waste Handling System
WNF	Waste Notification Form



## Section 1: Introduction

### 1.1 Background

To comply with the following National Legislations of the Kingdom of Thailand:

- Port Authority of Thailand (PAT) Notice on the Management of Waste from Ships in Bangkok Port
- Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Garbage and Solid Waste, BE 2560
- Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Bilge Water, Oily Waste, Contaminated Water and Chemical Waste, BE 2558
- The International Convention for the Prevention of Pollution from Ship – MARPOL 73/78 Port

Authority of Thailand (PAT) has prepared a Ship Waste Management Manual (SWMM), which describes in detail all aspects of the waste handling and collection system from vessels calling the port.

This manual is mandatory for all vessels and its crew calling at BKP, ship agents, waste contractors and other service providers, which are stakeholders in the management of ships' waste in BKP.

The Environmental Section (ES), under the Safety, Health and Environmental (SHE) Division of BKP, has been appointed to take overall responsibility for the coordination of ship waste handling in BKP in cooperation with other relevant divisions and departments. The relevant functions to be carried out for ship waste handling shall comply with the requirements of the SWMM.

As required, ES has prepared relevant changes and updates to the SWMM and will place this on the PAT website [www.port.co.th](http://www.port.co.th) and distribute to relevant stakeholders.

### 1.2 Structure

The SWMM is structured as follows:

Section	1 Introduction
Section	2 Contact Information
Section	3 Outline Description of the Waste Collection System
Section	4 Waste Types Accepted at Bangkok Port
Section	5 Formal Procedures
Section	6 Roles and Responsibilities
Section	7 Fees and Charges
Section	8 Documents
Annex	





### 1.3 Definitions and Explanations

“Additional charge”, a special port fee, which shall finance costs for providing services for waste collection from ships if the waste exceeds the waste volume covered by the SF or if type of ship generated waste is not included in the list of wastes covered

“Bilge water”, oily water accumulated mainly in the bilge well of ships’ machinery space

“Cargo residues”, the remnants of any cargo material on board in cargo holds or tanks which remain subsequent to unloading procedures and cleaning operations

“Collection of waste”, activities associated with the receiving/disposal, accumulation and placement of waste in designated areas or objects, including sorting of waste to recycle and/or to final destinations

“Discharging of waste from ships”, actions to transfer ship generated waste to port reception facilities

“Fishing vessel”, any ship equipped or used commercially for catching fish or other living resources of the river/coast/sea

“Garbage”, waste stored on board in garbage bins or plastic bags e.g. plastic, glass, paper, aluminum cans, ash, food waste, etc.

“Hazardous waste”, any harmful substance, which have such physical, chemical, biological or other dangerous properties, which can create or may create substantial risks to the environment and human health

“Liquid oily waste”, any fluid mixture of oil residues with water and mechanical impurities which were formed during vessel operations, eg. bilge water, waste lubricating oil, oil residues from the fuel purification, water from the slop tanks, etc.

“Oily residues (sludge)”, waste lubricating oil, oil residues and water from fuel/oil purification, oily water from fuel/oil slop tanks, etc.

“Penalty fee (fine)”, payment applied for all categories for non-conformities to the SWMM

“Port”, location on a coast or shore containing one or more harbors where ships can dock and transfer people or cargo to or from land



“Port reception facilities”, any facility, which is fixed, floating or mobile and capable of receiving ship-generated waste or cargo residues that can accumulate in vessels during their operation

“Recycling of waste”, using of waste as secondary material and/or energy resources

“Sanitary fee”, a special port fee or part of, which shall finance the total cost of ship waste handling (collection, treatment and final disposal). The fee is paid regardless of waste delivery

“Sewage”, black and grey water:

- drainage and other wastes from any types of toilets, urinals, water closets, WC scuppers;
- drainage from medical premises (dispensary, sick bay, etc.) via wash basins, wash tubes and scuppers located in such premises;
- drainage from spaces containing living animals;
- drainage from bathrooms, laundries, galleys and other wastes when mixed with the drainages defined above.

“Small vessels (ships)”, ships under 200 Gross Tonnage (GT) with the exception of tankers and vessels carrying chemicals

“Solid oily waste”, any non-fluidity oily wastes, which were formed during the operation of the vessel or from oil spills (oil sludge from the cleaning of fuel and oil tanks, oily rags, sand, sawdust, oil and fuel filters, etc.)

“Ship”, a seagoing vessel of any type operating in the marine environment and shall include hydrofoil boats, air-cushion vehicles, submersibles and floating craft

“Ship-generated waste”, all waste, including sewage, and residues other than cargo residues, which are generated during the service of a ship and fall under the scope of Annexes I, IV and V of MARPOL 73/78

“Waste contractor/operator”, company or organization which performs waste collection and other sanitary services in accordance with the existing agreements

“Waste Management”, actions aimed at waste minimization, collection, transportation, storage, treatment, recycling and final disposal (e.g. incineration and landfill)



## 1.4 Important Notes

- This SWMM concerns the territory and area of BKP (See Annex I)
- In accordance with BKP requirements, the delivery (Discharging and disposal) of ship generated waste is mandatory if:
  - Volume of waste exceeds 50% of storage capacity on board
  - Next port of call is unknown
  - Volume of the ships' storage tanks are not sufficient for accumulation of waste during the voyage to the next port of call

• The Waste Notification Form (WNF) shall be filled out by the ship/shipping agent and submitted to ES by email: [bkp.envi@gmail.com](mailto:bkp.envi@gmail.com) After waste discharge the waste operator shall specify the actual quantity of the waste disposed and leave a receipt copy for the ship captain. For more detailed description please refer to Section 5

- Disposal of waste from ships are available according to the below schedule:

### Garbage collection:

- At berths within the port area every day except Saturday and public holidays (8.30 a.m. – 16.30 p.m.)
- At Klongtoey Dolphin, Monday to Friday (8.30 a.m. – 16.30 p.m.)
- At Bang Hua Sua, Sathupradit, Ratburana and Bangplakot dolphins everyday except klongtoey Dolphin (8.30 a.m. – 16.30 p.m.)

### Oily waste collection:

- At berths after agreement with the oily waste collector, but in principle seven days a week
  - Ships at Klongtoey dolphins that wants to discharge oily waste are requested to go to an appointed berth nearby
  - BKP shall be informed in case of request for discharging oily waste and will coordinate accordingly, but will not be directly involved in the procedures for discharge
- Under PAT regulations, for the calculation of sanitary dues and other charges/fees, the following shall apply:
    - Ships calling BKP with more than 750 Gross Tons shall pay a SF regardless of waste delivery
    - Ship with less than 750 Gross Tons, wish to dispose garbage, shall pay SF accordingly



## Section 2: Contact Information–Organizations Involved in Ship Waste Management

Bangkok Port, Sections		Contact information	Working hours
Environmental Section	E-mail : bkp.envi@gmail.com Phone : 02-2693760, 02-2693701 Fax : 02-2693854, 02-2693701		Mon – Fri 8.30–16.30 u.
Stevedoring and Control Section	E-mail : stevedore51@gmail.com Phone : 02-2693412 Fax : 02-2693381		24 Hrs
Craft Section	E-mail : tugservices@gmail.com Phone : 02-2693479 Fax : 02-6718804		Mon – Fri 8.30–16.30 u.
Sanitary Section	E-mail : papa3638.port@gmail.com Phone : 02-2693360, 02-2693159, Fax : 02-2693638		Mon – Fri 8.30–16.30 u.
Waste Contractors		Contact information	Working hours
Suvarnabhumi Waste Recovery Co.,Ltd	E-Mail : swr2008@hotmail.com Phone : 02-2404067 Fax : 02-2404069		
Siam Rajathanee Co.,Ltd	E-Mail : info@en-technology.com Phone : 02-7435550-2 Fax : 02-7435553-2		
D.D.P. Siam Service Co., Ltd	E-Mail : cookiecreamini@hotmail.com, gade_147@hotmail.com Phone : 085-3665656 Fax : 02-3838887		
SSC OIL CO., LTD.	E-Mail : ssc_oil@hotmail.com, sscoil002@gmail.com Phone : 082-2150550, 086-3671177 Fax : 038-198652		
ak oil supply co. ltd	E-Mail : tarnkatay@gmail.com Phone : 02-8138991 Fax : 02-8138991		
VB Marketing Group, Co. ltd	E-Mail : v.b_marketinggroup@hotmail.com Phone : 0-34448623, 095-1515592 Fax : 0-34448622		

Ships Agents	Contact information	Working hours
WAN HAI LINES (THAILAND), LTD	E-Mail : pornphot@wanhai.com Phone : 02-2693711, 089-0588475	
Ngow Hock Agency Co., Ltd	E-Mail : admin@ngowhock.co.th, : kritsana@ngowhock.co.th Phone : 02-2496616, 085-9191252 FAX : 02-2961002	
SINOKOR MERCHANT MARINE (THAILAND) CO.,LTD.	E-Mail : skrtpat@sinokor.co.th Phone : 02-2401698-9 FAX : 02-2401697	
Heung-A Shipping (Thailand) Co.,Ltd.	E-Mail : oprpat@heung-a.co.th Phone : 02-2693392, 02-2693399	
Cosnam Shipping Co., Ltd.	E-Mail : warapot_pat@hotmail.com Phone : 02-2693382	
SAMUDERA TRAFFIC CO.,LTD.	E-Mail : ops.bkk@samudera.com Phone : 02-2493965, 02-2693372 FAX : 02-2497136	
COSCO SHIPPING Lines (Thailand) Co.,Ltd.	E-Mail : warapot_pat@hotmail.com Phone : 02-2493419, 081-5506052	
CK LINE (THAILAND) CO.,LTD	E-Mail : portbkk@ckline.co.th Phone : 02-6818711 FAX : 02-6815811	
CMA CGM (THAILAND) LTD.	E-Mail : thd.ops.pat@cma-cgm.com Phone : 02-3523200 FAX : 02-6798107	
SATA SHIPPING CO., LTD	E-Mail : satshpco@ksc.th.com Phone : 02-2400666-70 FAX : 02-2402907	
Yang Ming Marine Transportation Corp.	E-Mail : skk_1997@skk-bkk.com, : yos.t@th.yangming.com Phone : 02-2492000	
SITC CONTAINER LINE (THAILAND) CO.,LTD.	E-Mail : portoffice_bkk@sitcthailand.com Phone : 02-2046700 FAX : 02-2046700	
K Line (Thailand) Ltd.	E-Mail : ktlsdpdbkpk@th.kline.com Phone : 02-2402493 FAX : 02-2402494	



Ships Agents	Contact information	Working hours
KMTC (THAILAND) CO.,LTD.	E-Mail : recruit@kmtc.com Phone : 02-6974512 FAX : 02-6719787	
Zim (Thailand) Co. Ltd.	E-Mail : heansasee.sarawut@th.zim.com, : pukan.nopporn@th.zim.com Phone : 02-4943739, 02-4943738 FAX : 02-4943700	
EVERGREEN SHIPPING AGENCY (THAILAND) CO., LTD.	E-Mail : l06-ops@evergreenshipping.co.th Phone : 02-2299999 FAX : 02-2401013	
Eastern Maritime (Thailand) Ltd.	E-Mail : eml_pat@eml.co.th Phone : 02-6793792, 02-2400110 FAX : 02-6728314	
SEA-CHART (THAILAND) CO.,LTD.	E-Mail : burin@seachart.co.th Phone : 02-6883846-47 FAX : 02-6883824	
THAI SHIPPING AGENCIES AND TRADING CO.,LTD.	E-Mail : kchaiwat@thaishipping.co.th Phone : 02-2499565, 081-8288248 FAX : 02-2498448	
Hyundai Merchant Marine (THAILAND) Co., Ltd.	E-Mail : thsuh@hmm21.com Phone : 02-6614488 FAX : 02-6614442, 02-6614443	
Ocean Blue Shipping LTD.	E-Mail : sompong@macproexpress.com Phone : 02-6838737-210 FAX : 02-6837881	
APL Thailand Ltd.	E-Mail : sermsak_jitsikarest@apl.com Phone : 02-0885000, 084-4393129	
NAM YUEN YONG SHIPPING CO, LTD.	E-Mail : nyy@namyuenyong.com, : teerasak@namyuenyong.com Phone : 02-6799808 FAX : 02-6799805	
SANG THAI OCEAN Ltd.	E-Mail : agency@sangthai.co.th Phone : 02-8621485-225 FAX : 02-8621495	
Seaway Express Co. Ltd	E-Mail : sewayex@ksc.th.com Phone : 02-6798845-6 FAX : 02-2131125	



Ships Agents	Contact information	Working hours
Sealite Shipping Co., Ltd.	E-Mail : ops@sealite.co.th, : pavarit@sealite.co.th Phone : 02-6974510	
Prime Shipping Co. Ltd	E-Mail : sukittpsc@gmail.com Phone : 02-2498572-4 FAX : 02-2498575	
J Shipping Service Co. Ltd	E-Mail : j.shipping@yahoo.com Phone : 02-2616399, 02-2610946 FAX : 02-2614848	
SIAM ECL CO.,LTD.	E-Mail : eclbkk@siam ecl.com, : thunrit@siam ecl.com, : supanat@siam ecl.com Phone : 0-26774401, 084-3618177 FAX : 0-26774409	
BEN LINE AGENCIES (THAILAND) LTD.	E-Mail : patops@benline.co.th Phone : 02-2693755 FAX : 02-2402245	
Wongsamut Ocean Shipping Co., Ltd	E-Mail : wos.group2017@gmail.com Phone : 02-2230516-9 FAX : 02-2232297	
THAI COPEX INTERNATIONAL CO.,LTD.	E-Mail : operation@thaicopex.com Phone : 02-5590662 FAX : 02-5590665	
SEA HORSE MARITIME CO.,LTD.	E-Mail : paisan@sh-maritime.com, : agency@sh-maritime.com Phone : 02-6789667, 081-3731292 FAX : 02-6789668	
Songkiat international line Co., Ltd	E-Mail : skline@ksc.th.com, : skline@skline.com Phone : 02-7078989, 088-8923882 FAX : 02-7078778	
PANAMAX LIMITED.	E-Mail : mail@panamax.co.th Phone : 02-2376194-5 FAX : 02-2367951	



## Section 3. Outline Description of the Waste Collection System

### 3.1 Waste Collection

Waste from ships calling to Bangkok Port can be collected from three areas:

- At designated berths in BKP
- At Klongtoey dolphin
- At Bang Hua Sua, Sathupradit, Ratburana and Bangplakot dolphins

#### Berths in the port:

##### Garbage:

Garbage is collected by waste operators by truck. The garbage must be segregated by the ships' crew and put in clear plastic bags according to the requirements of ES (see Section 4). The segregated garbage is taken to an appointed temporary storage area within BKP before being taken to the municipal landfill.

##### Oily waste:

All oily wastes from machinery spaces except ballast and washroom water are collected by truck. Trucks will go alongside and the ship shall pump oily waste to the truck. The oily waste will be unloaded to third parties at the port for further processing.  
\*Note: Waste operator must register with Marine Department and Check information at [www.md.go.th](http://www.md.go.th)

##### Sewage:

Sewage is not being collected

#### Klongtoey dolphin:

##### Garbage (general waste):

Garbage is collected by the waste operator by barge. The garbage must be segregated by the ship into transparent plastic bags according to the requirements from ES. See Section 4 for further details. The segregated garbage is taken to a central appointed storage area within BKP before taken to the municipal landfill.

##### Oily Waste:

If ships want to discharge oily waste they are requested to go to an appointed berth at BKP. All oily wastes from machinery spaces except ballast and washroom water are collected by an oily waste operator by truck. Trucks will go alongside and the ship shall pump oily waste to the truck. The oily waste will be unloaded to third parties at the port for further processing.

##### Sewage:

Sewage is not being collected.





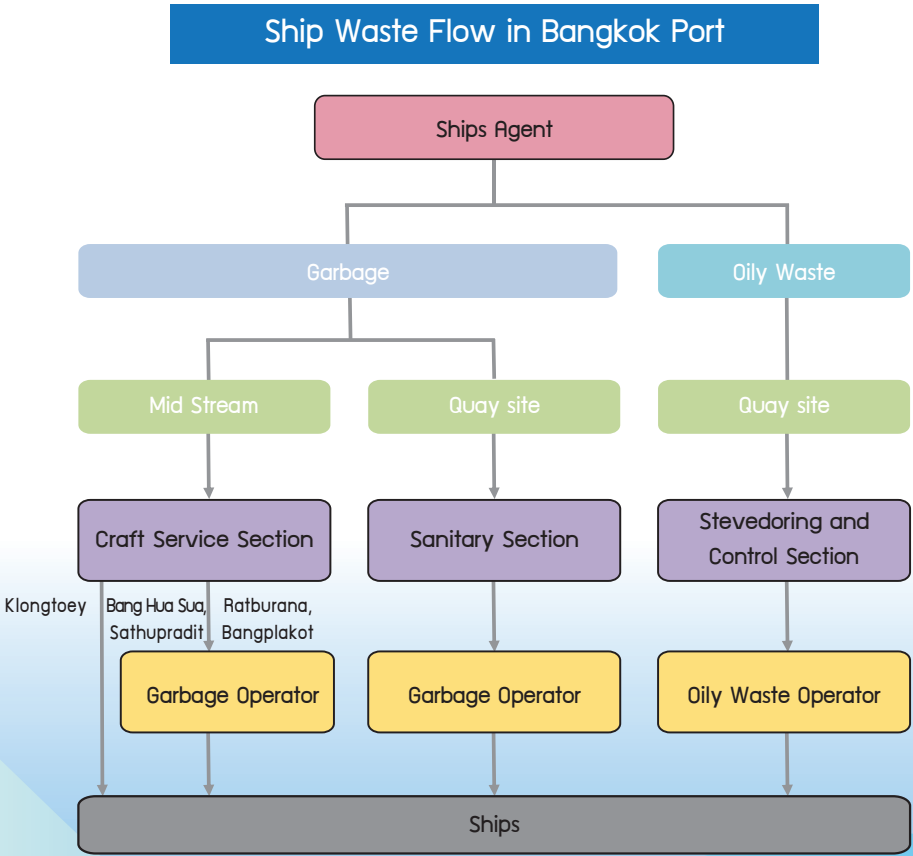
Bang Hua Sua, Sathupradit, Ratburana and Bangplakot dolphins:

Garbage (general waste):

Garbage is collected by the waste operator by barge. The garbage must be segregated by the ship into transparent plastic bags according to the requirements from ES. See Section 4 for further details. The segregated garbage is taken directly to the municipal landfill.

Sewage:

Sewage is not collected.



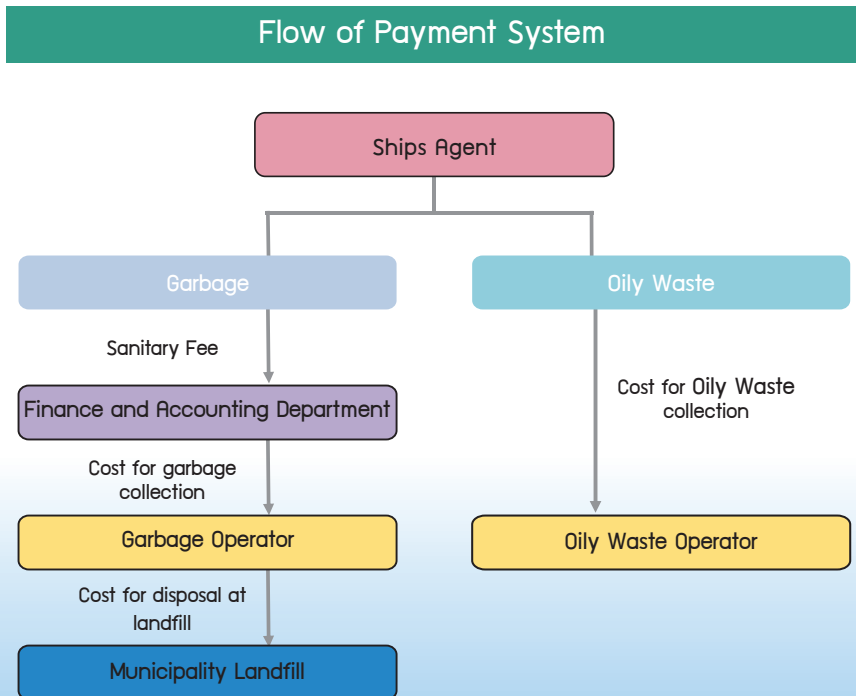
## 3.2 Payment System

The ships discharging waste shall pay a Sanitary Fee through their agents to the PAT Finance and Accounting Department for the collection of waste.

Payments for oily waste collection take place in communication by the shipping agent and the oily waste collector.

All ship calling BKP, with more – than 750 Gross Tonnage shall pay a SF, no limitation of waste volume Toxic waste and Hazardous wastes is not excepted.

The PAT Finance and Accounting Department will reimburse appointed waste contractors according to Agreements (Contracts).



### 3.3 Waste Notification System and Data Registration

All ships entering the port shall act through their local agent, and in advance inform the ES of all types and volume of wastes which they plan to deliver to the port.

This shall be done using the standard Waste Notification Form (WNF). This Form has to be submitted to the ES, e-mail: [bkp.envi@gmail.com](mailto:bkp.envi@gmail.com) **not later than 24 hours before ship's arrival.**

If this deadline is not possible, the information must be provided immediately after the departure of the vessel from the previous port, and the ship's agent should appropriately speed up the process and transmit information to ES without delay.

The captain of the ship and the ship's agent are responsible for the accuracy of the information provided in the WNF.

The WNF can be downloaded from the port's website: [www.port.co.th](http://www.port.co.th) and shall be forwarded to the ES by email only.

If the vessel requires additional waste discharge due to a prolonged stay in the port or for any other reasons, a new and revised WNF must be submitted again.

The ES shall receive the WNF submitted by the ship or agent, analyze it and inform the contracted licensed waste operators.

The waste operator agrees with the ship master or the agent the time and place for discharge of the waste. After the work has been done, the waste operator and ship master jointly complete the last column on the WNF describing the waste types and volume discharged.

The ship captain can then use this as a garbage certificate of his waste disposal at BKP.

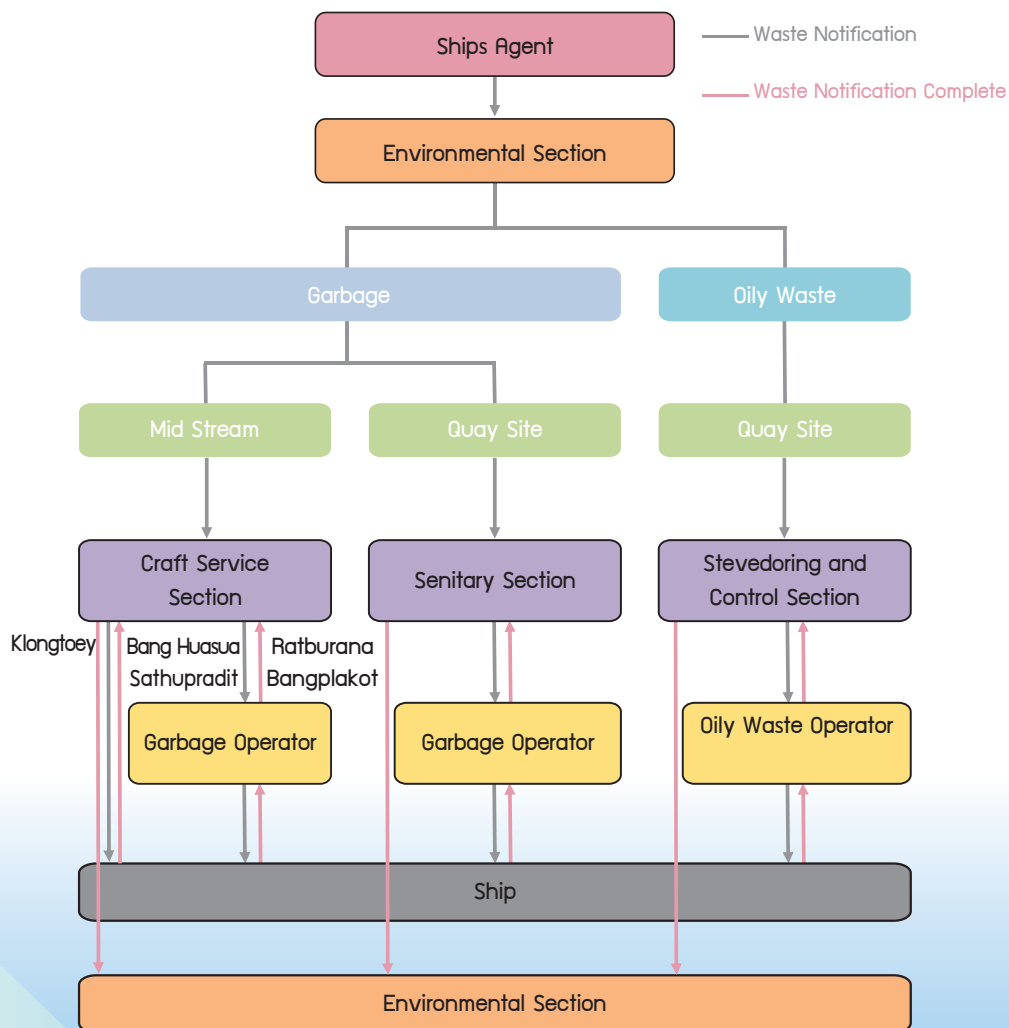
When the waste operator has filled in the last column, it shall be signed by the waste operator and ship master.

- One copy of the WNF shall remain on board for its registration into the ships logbooks or other documentation.
- One copy of the WNF goes to ES for controlling functions
- One copy of the WNF goes to the licensed waste operator

The ES shall collect copy of the WNF on the actual collected ship waste for monitoring and statistical purposes.



## Flow of Waste Notification Forms and Waste Delivery Receipts



## Section 4 Waste Types Accepted at Bangkok Port

### Waste Types Accepted at Bangkok Port

ACCEPTED	ACCEPTED BY THE PORT	THE COSTS OF WASTE COLLECTION IS COVERED BY:	
		Sanitary	Additional and Special Charges for each m3 over accepted limits
Liquid oily waste from ship machinery space: <ul style="list-style-type: none"> <li>Bilge water</li> <li>Oil residues (sludge)</li> </ul>	Yes	No*	No
Sewage	Not applicable	-	-
Garbage** <ul style="list-style-type: none"> <li>Recyclable waste (plastic, paper, glass, metal)</li> <li>Floating dunnage</li> <li>Compostable waste</li> <li>Other non-hazardous waste</li> </ul>	Yes	Yes	No
Oily cargo residues: <ul style="list-style-type: none"> <li>Dirty ballast</li> <li>Wash water</li> </ul>	Not applicable	-	-
Hazardous waste: <ul style="list-style-type: none"> <li>Solid oily waste</li> <li>Medical waste</li> <li>Batteries</li> <li>Fluorescent lamps</li> <li>Other hazardous waste</li> </ul>	Not applicable	-	-

#### Note

\*Payments for oily waste collection take place in communication by the ships agent and the oily waste collector.

#### \*\*Garbage segregation requirements

The garbage must be segregated and packed into clear plastic bags with tags/ markings identifying the garbage type according to the requirements of Pollution Control Department (PCD), Ministry of Natural Resources and Environment (MONRE), under the "Technical Guidelines on Requirements of Plastic Bags for General Garbage".

#### Segregation categories:

- Recycle waste : Yellow
- Floating dunnage, lining or packing materials : Blue
- Compostable waste – food waste : Green
- Other non-hazardous waste : No required



## Section 5 Formal Procedures

### 5.1 Mandatory Waste Notification

The shipmaster shall, through his agent, notify the ES at BKP about all types and volume of waste to be delivered to the reception facility in the port **24 hours prior to calling at the port.**

If this deadline is not possible, the information must be provided immediately after the departure of the ship from the previous port, and the ship's agent should appropriately speed up the process and transmit information without delay.

The WNF is shown in Annex 2 and can be downloaded from the port website: [www.port.co.th](http://www.port.co.th)

The WNF is mandatory for all types of ships calling BKP.

The notification form shall include the following information:

1. Name of ship, IMO Number, Flag state, Port of Registry and Call sign:
2. Flag state, Port of Registry
3. Gross tonnage of the ship
4. Ship's owner and ship's agent mailing address, fax number and phone number
5. Estimated time of arrival/departure
6. Previous and next port of call
7. Number of crew
8. Convenient time for waste discharge at the port
9. For each of the waste categories on board to inform on:
  - a. Quantity of waste discharged at last port of call
  - b. Waste storage capacity
  - c. Quantity of waste to be discharged at BKP
  - d. Actual quantity disposed to waste operator



The WNF must be forwarded to ES ([bkp.envi@gmail.com](mailto:bkp.envi@gmail.com)) **24 hours before the ship's intended usage of the port reception facilities.** From here, ES will analyze the information and will coordinate the waste collection.

The shipmaster and the ship's agent are responsible for the accuracy of the information provided in the WNF.

When the waste operator has collected the waste from the ship, he/she will fill in the last column of the WNF regarding the actual quantity of waste disposed. The ship captain can use this as a confirmation (receipt) for waste disposal.

The completed WNF must be kept on board the ship for Certificate

## 5.2 Methods and Conditions for Waste Collection

The operating hours for collection services for all waste categories are available as per schedule below:

### Garbage collection:

- At berths except Saturday and public holidays (8.30 a.m. – 16.30 p.m.)
- At Klongtoey Dolphin, Monday to Friday (8.30 a.m. – 16.30 p.m.)
- At Bang Hua Sua, Sathupradit, Ratburana and Bangplakot Dolphins everyday except Klongtoey Dolphin (8.30 a.m. – 16.30 p.m.)

### Oily waste collection:

- At berths after agreement with the oily waste collected; 7 days a week
- At Klongtoey Dolphins – if ships want to discharge oily waste they are requested to go to an appointed berth nearby



## Methods and Conditions for Waste Collection

WASTE TYPE	METHOD OF	TERMS OF	METHOD OF TREATMENT AND DISPOSAL
Liquid oily waste from ship machinery space: <ul style="list-style-type: none"> <li>• Bilge water</li> <li>• Oil residues (sludge)</li> </ul>	To truck	Discharge by ships pump with rates not less than 15 m3 per hour, through standard flange connection to barge or truck	After collection, it is taken by a third party for further processing and recovery
Sewage	Not applicable	-	-
Garbage: <ul style="list-style-type: none"> <li>• Recyclable waste (plastic, paper, glass, metal)</li> <li>• Floating dunnage</li> <li>• Compostable waste</li> <li>• Other non-hazardous waste</li> </ul>	To barge or truck	Accepted in clear plastic bags and are segregated according to BKP requirements, with indicators on the waste types on each bag (either by writing or tag)	After collection taken directly to municipal landfill
Oily cargo residues: <ul style="list-style-type: none"> <li>• Dirty ballast</li> <li>• Wash water</li> </ul>	Not applicable	-	-
Hazardous waste: <ul style="list-style-type: none"> <li>• Solid oily waste</li> <li>• Medical waste</li> <li>• Batteries</li> <li>• Fluorescent lamps</li> <li>• Other hazardous waste</li> </ul>	Not applicable	-	-





## Section 6 Roles and Responsibilities

### 6.1 Roles and Responsibilities of the Shipmaster

The shipmaster shall:

Comply with all national and international regulations of environmental safety and inform ES on problems or cases of non-compliance:

- Forward the WNF to ES, email: [bkp.envi@gmail.com](mailto:bkp.envi@gmail.com) **24 hours prior to arrival** and keep the WNF on board the ship until arrival at the next port of call
- Discharge ships' waste in compliance with the port and environmental regulations as specified in this manual (segregation). Discharge is mandatory if the ship collected tanks have less than 50% of its capacity remaining
- Plan waste discharging according to the schedule outlined by ES without causing delay for the waste operator (see Section 5.2)
- Agree with the waste operator the actual volume of collected waste for each type of waste
- Sign the WNF with approving the actual disposed waste volume
- Fill in waste data in the Oil Record Book and Garbage Record Book; keep the signed WNF on board the ship
- If additional volume of waste has to be discharged by the ship (due to prolonged stay in the port or for any other reasons), the shipmaster must fill in, sign and submit a new WNF to ES
- Cooperate with any inspection/supervision department and provide access to ship documentation if necessary

The shipmaster is overall responsible for the timely and accurate information in the WNF in compliance with the national and international regulations on environmental safety during calls to BKP.



## 6.2 Roles and Responsibilities of Ships Agents

The Ships agent is the focal point for the ship's communication with ES. The agent is obliged to inform the shipmaster about port regulations on environmental safety and assist him/her to comply with the requirements of these regulations.

- Fill in the WNF on behalf of the shipmaster and send it to ES by email ([bkp.envi@gmail.com](mailto:bkp.envi@gmail.com)) **no less than 24 hours before arrival** or latest immediately after departure from the previous port of call
- Must indicate the preferred time for discharge of ship generated waste
- Receive and pay invoices to the PAT Finance and Accounting Department
- Receive and pay for any oily waste collection

The agent is responsible for information provided timely and accurately in the WNF.



## 6.3 Roles and Responsibilities of PAT

### ES:

- Receive the WNF from the ship master or agent, Check the data and inform waste contractors about the kind of service required for each particular ship
- Control all waste collections together with the waste operator to secure that the ship can comply with national as well as international regulations.
- Coordinate the activities of all the relevant departments in BKP involved in waste handling, propose amendments to the Ship Waste Management Manual (update the SWM manual)

### PAT Finance and Accounting Department:

- Invoice the sanitary fee according to the requirements stipulated in Section 7 and submit to the ship agent.
- Reimburse the waste contractors for provided services based on existing Terms of References (TOR).

### Craft Service Section:

- Control garbage collection at Bang Hua Sua, Sathupradit, Ratburana and Bangplakot Dolphins and buoys according to the requests from the WNF
- Carry out garbage collection at Klongtoey Dolphins
- Collect the monthly report of the WNF sent to ES
- Statistics of waste collection and use this data for the next Terms of Reference (TOR)

### Sanitary Section:

- Control the garbage collection at berths within BKP according to the requests from the WNF
- Collect the monthly report of the WNF sent to ES
- Statistics of waste collection and use this data for the next Terms of Reference (TOR)

### Stevedoring and Control Section:

- Control oily waste collection from ships which takes place according to the WNF and inform ES in case of irregularities or non-compliance
- Collect the monthly report of the WNF sent to ES



## 6.4 Role and Responsibilities of External Waste Contractors

After having received the information from ES, the waste contractor shall clarify the date and venue for waste collection and collect the waste according to the standard set by ES.

The external waste contractors will collect:

- Garbage from a central collection point (storage area) within BKP
- Garbage from ships at berth within BKP
- Garbage from Bang Hua Sua, Sathupradit, Ratburanam, Bangplakot and Klongtoey Dolphins or buoys
- Oily waste from ships at berth within the port area
- Other waste according to the agreement with ES

The external waste contractor provides collection by truck and/or by barge for the following types of waste: oil residues, bilges and sludge from machinery space and garbage from ships within the port and at the dolphins.

The Contractor will deliver/sell the segregated garbage and collected waste oil to third party, but shall comply with all national environmental regulations.

A Contractor will provide collection of garbage segregated according to Section 4 and handle the waste in compliance herewith and with other regulations.

The Waste Contractors shall collect all kinds of waste stated under Section 4, in compliance with the requirements of environmental regulations, without any unjustified delay of ship departure. They also have to inform the ES about any problems and situations of non-compliance.

The waste contractor shall register all the types and volumes of waste collected and follow the requirements specified in Section 3.3.

As such all wastes discharged from the ship becomes the property of the waste contractor immediately after having received it from the ships or collected from the central storage area within BKP and after the WNF has been signed by the waste operator and ship master after waste disposal. Revenue for any waste with commercial value will be regulated according to mutual agreement/contract.

The waste contractors are fully responsible for waste management (collection, treatment and final disposal) in compliance with legislation and regulation currently in force by the Royal Government of Thailand. If the services for waste collection are not provided according to these regulations ES in cooperation with the Legal Section in BKP have the right to terminate the contract or impose a fine.



## Section 7 Fees and Charges

### 7.1 Sanitary Fee

In accordance with the national legislation and port regulations a SF shall be paid by all ships calling BKP regardless of waste delivery (for exempted types, see Section 7.2). The SF will cover the cost of garbage collection of accepted volumes and waste types.

### 7.2 Ships Exempted from the Sanitary Fee

The following ship categories are exempted from paying the SF.

- Ships lower than 750 Gross Tonnage (GT)
- Pleasure yachts, private boats, dingies, etc.
- Tug boats and smaller vessels operating under BKP
- Fishing vessels

Note Ship exempted (7.2) wish to dispose garbage shall pay SF according to PAT regulations.

### 7.3 Ships Disposing Oily Waste

All ships disposing oily waste shall discharge directly in agreement with the oily waste contractor. This includes all logistic arrangements and price for disposal. The ES shall be informed of irregularities or non-conformities.



## **Section 8 Standard Documents**

In the present section, the standard documents are given for registration and documentation of data under the ship waste management of BKP.

The following standard forms and documents are included to this manual:

1. Port Authority of Thailand (PAT) Notice on the Management of Waste from Ships in Bangkok Port
2. Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Garbage and Solid Waste, BE 2560
3. Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Bilge Water, Oily Waste, Contaminated Water and Chemical Waste, BE 2558
4. The International Convention for the Prevention of Pollution from Ship – MARPOL 73/78
5. Waste Notification Form (WNF)
6. Requirements for Standard Discharge Connections



## ANNEX 1

## Map of Bangkok port



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ไบเทรกก

## ANNEX 3

### Requirements for Standard Discharge Connections (MARPOL 73/78)

Description	Dimension
Outside diameter	215 mm
Inner diameter	According to pipe outside diameter
Bolt circle diameter	183 mm
Slots in flange	6 holes 22 mm in diameter equidistantly placed on a bolt circle of the above diameter, slotted to the flange periphery. The slot width to be 22 mm
Flange thickness	20 mm
Bolts and nuts : quantity, diameter	6, each of 20 mm in diameter and of suitable length

The flange is designed to accept pipes up to a maximum internal diameter of 125 mm and shall be of steel or other equivalent material having a flat face. This flange, together with a gasket of oil-proof material, shall be suitable for a service pressure of 600 kPa.

