

**SUMMARY OF FEASIBILITY STUDY FOR A WASTE RECEPTION FACILITY IN KINGSTON HARBOUR (October, 1999)**

- Approximately 2200 ships visit Kingston Harbour based on 1998 figures (typical) on an annual basis which is 2/3 of all ships calling at Jamaican ports.
- For the report the quantity and composition of the waste had to be estimated as there were no data available.
- Average annual tonnage of ships visiting Kingston Harbour (1998) is approximately 13000 tons.
- Ship generated liquid waste could meet the requirements of the Caribbean Cement Company if the 74% water content was reduced to <2 %. (Need to check if this is still the case).
- Average of 1.98 kg/person/day of solid waste generated on freighters with food and glass being the largest fractions of 30% each.
- Hazardous waste amounts to 15% of the total solid waste (paints, medical waste batteries).
- Opportunities to separate recyclable portion of the solid waste (paper, cardboard, plastic bottles, batteries).
- Wastes to be disposed of that are generated as a result of the dewatering of the of oily wastes include wastewater that must meet NRCA's trade effluent standards and oil contaminated solid waste which must be incinerated if it cannot be accommodated in the cement kiln.
- Waste Management plan proposed treatment of oily water and sorting of solid waste into recyclable components and the remainder being sent for disposal at the Riverton Landfill.
- Proposed oily waste treatment facility will use centrifugal forces to separate oil, water and solid particles; proposed liquid waste facility should have a size of 40m x 60m and treatment facility should be 15m x 30m.
- Sorting facility should be designed for an annual throughput of 10,000 to 15,000 tons.

- Liquid waste treatment facility.
  - Reception and treatment facility costs: US\$ 300,000
  - Buildings and Infrastructure: US\$ 218,000
  - Annual operating costs US\$ 429,100/annum
  
- Solid waste sorting facility.
  - Reception and sorting facility (sorting facility) US\$ 25,500
  - Annual operating cost US\$ 28,250/annum
  
- Large scale sorting facility for commercial and ship generated waste.
  - Large scale facility for sorting US\$ 210,000
  - Buildings and infrastructure US\$ 239,600
  - Annual operating costs US\$ 669,400/annum
  
- One possible financier for the project was the Environmental Foundation of Jamaica.
  
- An EIA is required for a project of this nature.