Colombo Municipal Council

Sewerage System

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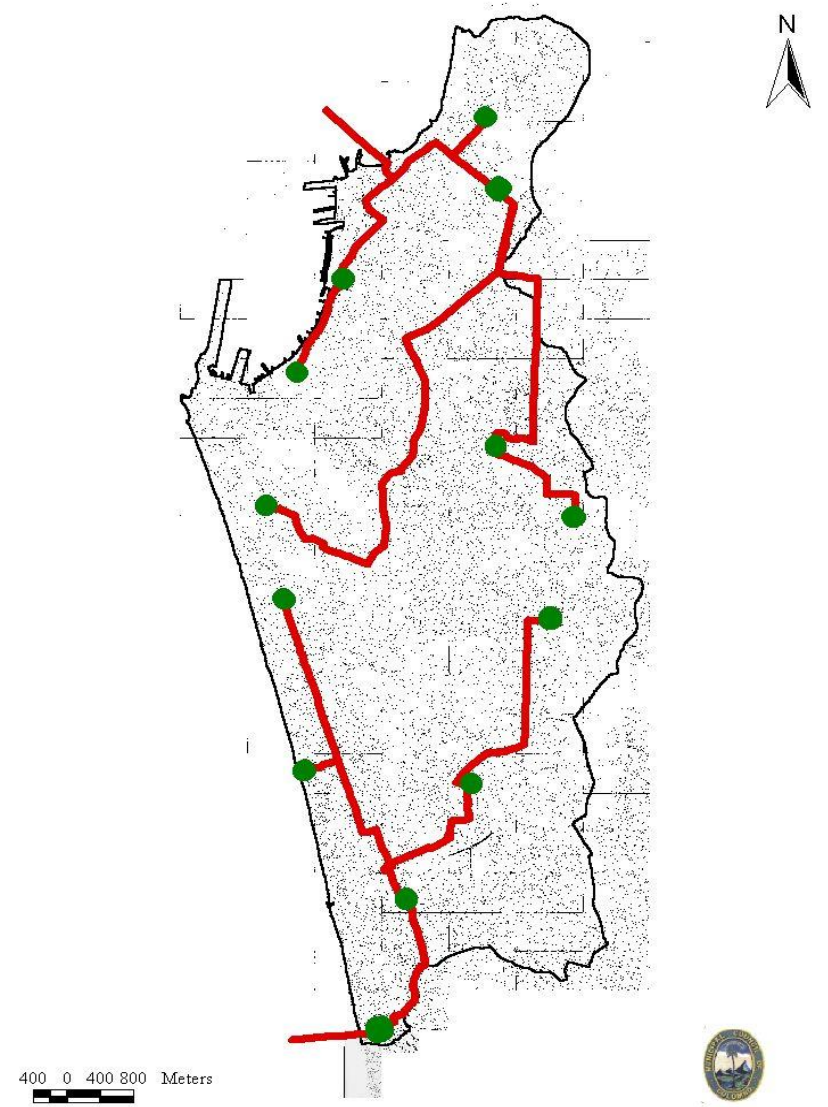
City Profile

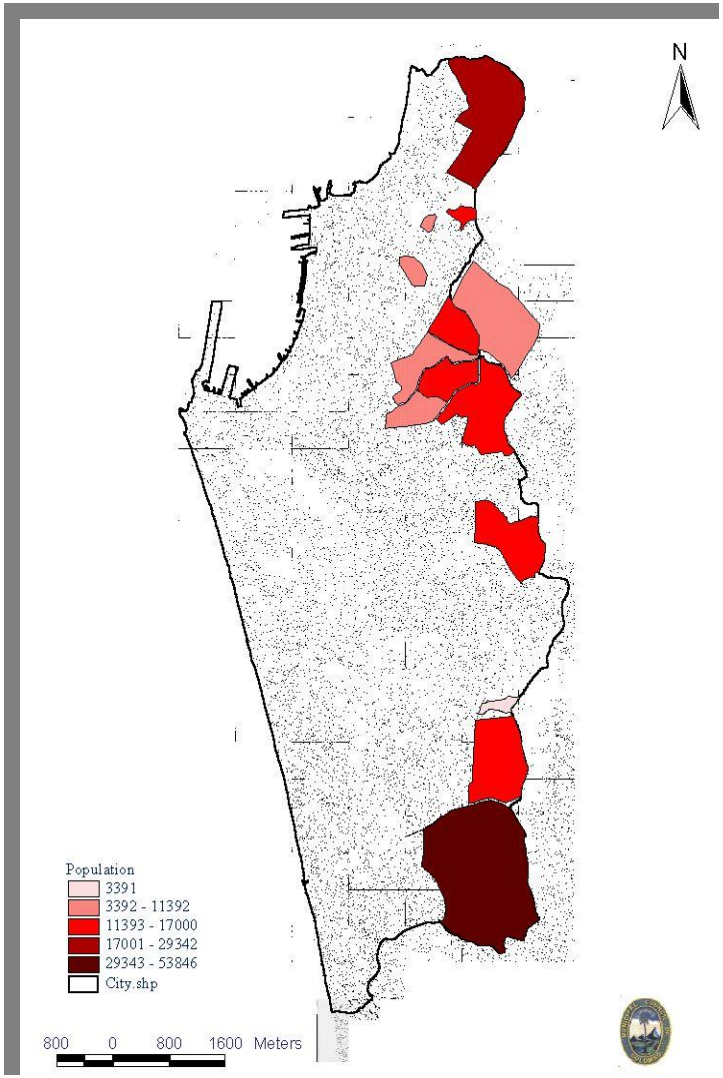
- Population
  - Residential 647,100
  - Floating 400,000
- Extent 3,721.28 HA[37.31sq. Km]
- Housing stock
  - Over 120,000
  - Nearly half lives in substandard housing
- Policy making, Governance, Finance and Operation - Mayor

Colombo Municipal Council sewerage System- PRESENT SITUATION



- Over 80% of the city covered with piped sewerage is 100 years old.
- Over 250km of gravity lines are connected at 13 pumping stations.
- 13 pumping stations are connected with a network of force mains to take sewerage to two sea outfalls.
- Both outfalls are gravity type and take sewage to deep sea and are fitted with diffusers to achieve adequate dilution.
- 30m. Gal. of wastewater pumped to sea daily

Colombo Municipal Council sewerage System



- 14 catchments do not have pipe borne sewers
- Action initiated to provide sewerage in 3 largest areas

Mattakkuliya – Designs completed and stage I under construction.

Borella North – Main sewer constructed. Branch sewers and pumping stations to be constructed.

Kirullapone - Designs completed and under construction stage I.

EXISTING CONDITIONS

- There are frequent blocks and collapses are experienced in the recent past.
- This is because when the pumping stations are not working efficiently, the sewage does not move around the system.
- Hence silt settles and harden with time and gasses like H_2s forms and attack the fabric of the system.

Recent Sewer collapse at Wellawatta

Current status of sewer pipes..

Current Project…

Greater Colombo Waste Water Management Project (ADB)
US$ 100 Million
US$ 35 Million
(GoSL Comp)

Greater Colombo Waste Water Management Project (ADB)

The project addresses the problems with the present system and recommends remedial measures & proposes for

- The fine screening of all flows discharged through the sea out falls to meet Sri Lankan water quality standards requirements for floating solids.
- The rehabilitation of the sewer net work and pumping stations.
- The rehabilitation of the sea out falls.
- New pumping stations where needed due to insurmountable design problems with the existing stations and to meet increased capacity.


THANK YOU