

ETHEKWINI MUNICIPALITY



eThekwini Remix Project Pilot Plant



Presented by: Hope Joseph



BACKGROUND

- Current studies underway by EWS to assess Inner City Water
 Demands indicate an unpeaked demand of approximately 65 Ml/day
- Ultimate capacity of the plant 100Ml/day
- 1st Phase Demonstration plant 6.25Ml/day
- Hitachi has been in discussion with eThekwini Municipality for three years
- A visit in March 2013 by EWS and Umgeni Water to Japan to see the RW technology, led to a general MOU between Hitachi and EWS.



REMIX WATER TECHNOLOGY



- Low energy saving and environmental friendly desalination plant
- Two components
 - Reuse from wastewater
 - Desalination
 - Product water is combined
- Brine is diluted and discharged via the existing sewer outfall





Proposed Site



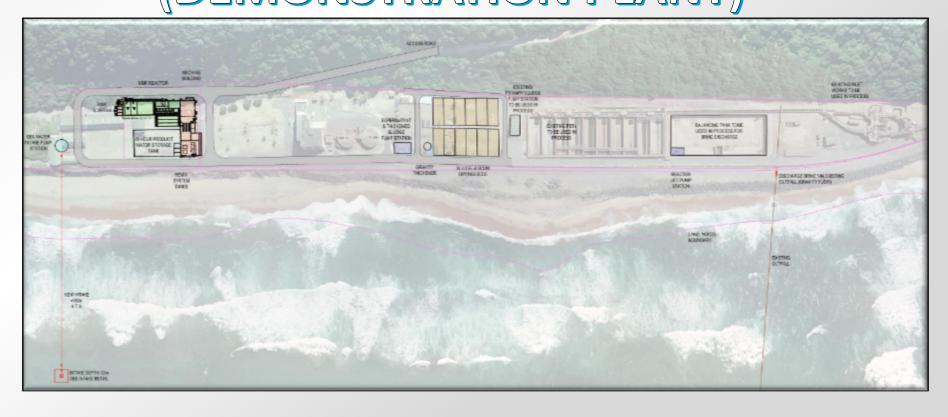


CENTRAL WWTW



PROPOSED LAYOUT OF 6.25 M&/DAY (DEMONSTRATION PLANT)





PROPOSED-LAYOUT OF 100MLD REN

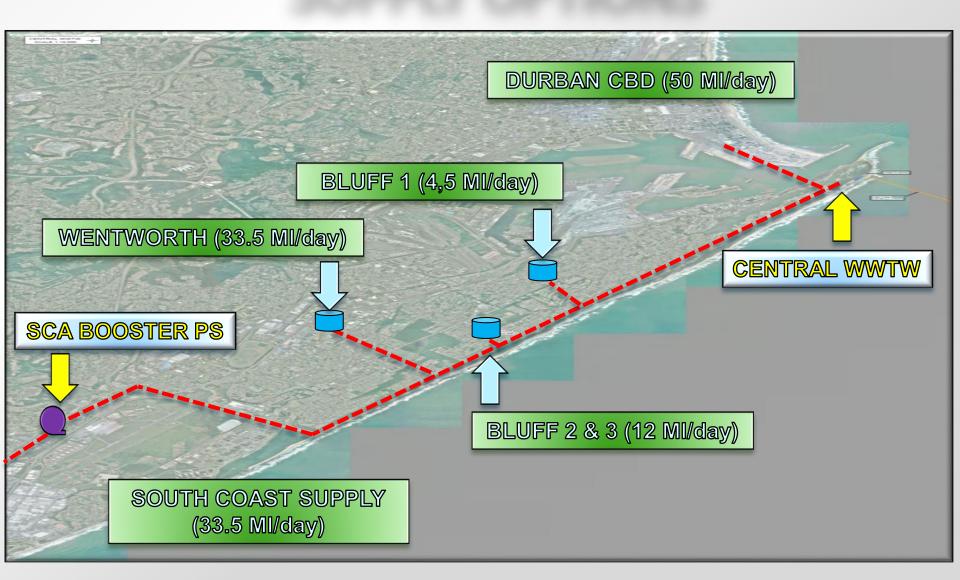


PLANT





SUPPLY OPTIONS





TIE-IN INFRASTRUCTURE





COMMERCIAL PLANT: SCHEDULE

Milestone	Year of Commission
Phase 1 of Commercial (6.25 MLD)	2020
Phase 2 Plan of Commercial (100MLD)	2023

STATUS

- Feasibility complete
- Approval by council accepted
- Implementation agent appointed the EIA consultant and marine specialist consultant appointed
- In the process of appointing a civil consultant





Thank You

Hope Joseph
Senior Civil Engineer
EWS: Planning
031 311 8577
Hope.joseph@durban.gov.za