

CONSERV II WRF ODOR CONTROL MASTER PLAN ORLANDO, FL

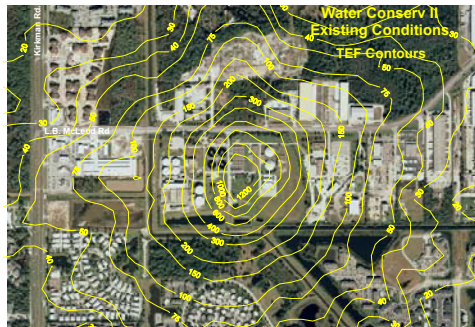
FINAL PROJECT SCORECARD

- Identified and ranked** odor sources
- Master Plan provides direction** for odor control efforts
- Modeling predicts impact** of future odor control efforts

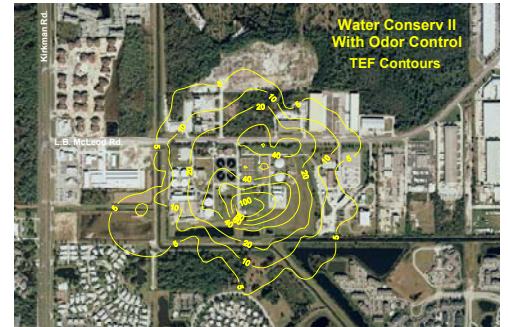
WEA performed an odor survey at the 25 MGD Water Conserv II WRF in July, 1997, and submitted the final odor study report in May, 1998. WEA recommended, and subsequently designed covers and a biofilter for the Pretreatment Structure. The City made several operational changes to the plant since then and in order to remain proactive in controlling odors from this plant, the City retained WEA to complete an Odor Control Master Plan for the facility.

The objectives of the Master Plan were:

- Rank all the odor sources at the plant
- Evaluate scrubber odor and hydrogen sulfide removal efficiencies
- Use odor dispersion modeling to predict odor levels and frequency of occurrences in the surrounding community
- Evaluate the need for additional odor control
- Evaluate odor control alternatives and costs
- Recommend solutions



Existing Event Contour



Event Contour With Odor Control

The Master Plan recommendations were accepted by the City of Orlando, and used to provide the basis for the design of the odor control systems for the aeration basins and Gravity Belt Thickener building.