

Florida Ranchland Environmental Services Project (FRESP) – Lykes Bros. West Waterhole Pilot



Location:	Highlands County
Subwatershed:	Indian Prairie
Basin:	C-40
Purpose:	Provide shallow storage, retention and detention to enhance Lake Okeechobee and estuary health by reducing discharge volumes, reducing nutrient loading to downstream receiving waters, and expanding groundwater recharge opportunities.
Project Operation Start:	November 2006. However, due to drier than normal conditions in 2006 and 2007, excess water was not available for the project operation until July 2008.
Considerations/Update:	<p>This project pumps excess water from the C-40 Canal into the project footprint for regional storage and phosphorus (P) removal via uptake within the wetlands and associated marshes before returning the treated water back into the C-40 Canal.</p> <p>The contract agreement between SFWMD and Lykes Bros. Inc., has been amended several times to extend the period of performance, increase funding, and revise the payment and deliverable schedule. The current agreement expiration date is September 30, 2020.</p>

Parameter	2011 LOWCP Update	Initial Agreement (2006)	Current Agreement
Drainage Area (acres)	2,500	2,500	2,500
Average Annual TP Removal (mt/yr)	0.2	0.2	7.0 ¹
Average Annual Storage (ac-ft/yr)	5,000	N/A	13,380 ¹
Construction Cost	\$928,564	\$197,734 ²	-
Annual Cost	N/A	\$100,000	\$495,000 ³

¹ Based on data collected from 2008 through 2018 by the District and the landowner and analyzed by Archbold Expeditions dba Macarthur Agro-Ecology Research Center

² Includes planning, design & engineering: \$20,000; permitting: \$10,000; construction and equipment: \$20,000; and pumps: \$147,734 (property of SFWMD)

³ Includes project operation (\$375,000) and operation and maintenance (\$120,000)