

LAKE OKEECHOBEE FAST TRACK PROJECT

Project Features in Taylor Creek/Nubbin Slough Basin

Project Features	Location	Size (acres)	Inflow Point/ Water Source	Existing Annual Load (mtons)	Project ed Annual Load Reduction (mtons)	Max Storage Capacity (acre-feet)	Estimated Preliminary Cost (million \$)	Comments
Taylor Creek Critical Project STA	Grassy Island Ranch	190	Taylor Creek	35.6	1 – 2	--	--	Project scheduled for completion May 2005.
Taylor Creek Reservoir	Grassy Island Ranch	4,000	Taylor Creek	35.6	3 – 5	32,000	\$50,721,753	LOW Project Component.
Nubbin Slough Critical Project STA	New Palm Dairy	809	Nubbin Slough	48.3	7 – 8	--	--	Project scheduled for completion Oct 2005.
Nubbin Slough Phase I Expansion (STA)	New Palm Dairy	500	L-63	48.3	15 – 16	--	\$10,400,000	\$9.0 million funding already in place. Load reduction estimate includes the 7 – 8 ton reduction achieved by the critical project STA
Nubbin Slough Phase II Expansion (Reservoir)	New Palm Dairy	790	L-63	48.3	1 – 2	6,320	\$15,000,000	LOW Project Component. Reservoir will optimize operations of both Nubbin Slough and Lakeside STAs. Additional analyses are on-going.
Lakeside STA	Lakeside Ranch	2,700	S-133, S-135, & S-191 subbasins	102	25 – 35	--	\$50,000,000	LOW Project Component.
Rerouting of S-133 & S-135, & all of S-191 flows to Lakeside	--	--	NA	NA	NA	NA	\$21,600,000	Rerouting of the flow from S-135 & S-133 is a critical component of the Lakeside STA option.
Rerouting of S-154 Flows to TCNS Basin	--	--	NA	NA	NA	NA	TBD	Stand alone option.

Notes:

1. The total construction cost for these proposed accelerated components (excluding the \$9 million already secured) is **\$138,722,000**.
2. Total available P-load in Taylor Creek/Nubbin Slough Basin = **102 mtons**.
3. Total combined P-load removed by the proposed accelerated project (including load removed by the critical project STAs) = **50 – 60 mtons**.
4. P-load reduction and cost estimates are based on conceptual planning level analyses. Additional analyses will be needed to firm up the load reduction and cost estimates.

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Timetable for proposed components

Plan Component	Conceptual Planning	Design	Plans & Spec	Land Acquisition	Construction Start	Construction Finish
Taylor Creek Reservoir	Completed	Apr-06	Nov-06	Completed	Dec-06	May-08
Nubbin Slough Phase I Expansion (STA)	Completed	Jul-05	Jul-05	Completed	Oct-05	Oct-06
Nubbin Slough Phase II Expansion (Reservoir)	Apr-05	Dec-05	Mar-06	Completed	Jun-06	Jun-07
Lakeside STA	Apr-05	Jan-6	Jul-06	Completed	Oct-06	Mar-08
Rerouting of S-133 & S-135, & all of S-191 flows to Lakeside	Apr-05	Jan-6	Jul-06	Completed	Oct-06	Mar-08
Rerouting of S-154 Flows to TCNS Basin	Aug-05	TBD	TBD	TBD	TBD	TBD

Assumptions

1. Immediate start, no later than Apr-05.
2. Design includes completion of 90% design package, field data collection, and permits.
3. Topographic data for New Palm Dairy site is available.
4. Necessary mitigation will be accommodated at the Grassy Island Ranch Site.
5. Permitting will be completed by the end of design.

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Funding Stream Requirements

Plan Component	Size (acres)	Total Cost	Funding Currently Available	Additional Funding Required	FY05	FY06	FY07	FY08
Taylor Creek Reservoir	4,000	\$50,722,000	\$0	\$50,722,000	\$5,072,200	\$15,216,600	\$25,361,000	\$5,072,200
Nubbin Slough Phase I Expansion (STA)	500	\$10,400,000	\$9,000,000	\$1,400,000	\$1,040,000	\$9,360,000	--	--
Nubbin Slough Phase II Expansion (Reservoir)	790	\$15,000,000	\$0	\$15,000,000	\$1,500,000	\$13,500,000	--	--
Lakeside STA	2,700	\$50,000,000	\$0	\$50,000,000	\$5,000,000	\$15,000,000	\$25,000,000	\$5,000,000
Rerouting of S-133 & S-135, & all of S-191 flows to Lakeside	--	\$21,600,000	\$0	\$21,600,000	\$2,160,000	6,480,000	\$10,800,000	\$2,160,000
Rerouting of S-154 Flows to TCNS Basin	--	TBD	\$0	TBD	TBD	TBD	TBD	TBD
					\$14,772,200	\$59,556,600	\$61,161,000	\$12,232,200

Notes:

1. The total construction cost for these proposed accelerated components (excluding the \$9 million already secured) is **\$138,722,000**.
2. Total cost of the Nubbin Slough Phase I Expansion STA includes cost of underground forcemain for conveying water from the L-63 canal.
3. Total cost of the Nubbin Slough Phase II Expansion Project includes cost for remediation of the dairy property.
4. All projects are sited completely on District owned lands; no additional real estate purchases are anticipated.
5. Funding stream requirements assume that 10% of the total budget will be expended in year 1, 30% in year 2, 50% in year 3 and the remainder in year 4.
6. Costs above are for construction only. Design, permitting, and construction administration and supervision will add approximately 18% to the construction costs. The total including these factors will be about **\$163, 692,000**.

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Forward Pumping Project

Components

Basin Served	Structure Designation	Size (cfs)	Cost Estimate
Miami Canal	S354	800	\$8M
NNR/Hillboro	S351	1000	10M
WPB Canal	S352	800	8M
St. Lucie	S308	500	5M
Caloosahatchee	S77	1000	10M
C-40	G208	300	3.6M
C-41	G207	300	3.6M
Engineering Construction Admin			11.7M
		4700	56.9M

Implementation Schedule

1. Expedited feasibility study	6 months
2. EIS	24-36 months
2. Construction Plans and Specifications	12 months
3. Contract Advertisement, Bid, Authorization	4 months
4. <u>Construction</u>	<u>18 months</u>
Total Time	42 months

Cash Flow (all locations simultaneously)

FY05	\$500,000
FY06	\$5,000,000
FY07	\$20,000,000
FY08	\$31,400,000

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Forward Pumping Project

Implementation Options

1. All at once
2. Southerly discharges first, then northerly, then east and west
3. Other combinations

Project Benefits

1. Improved ecological conditions for Lake Okeechobee through improved stage management
2. Reduced damaging discharges to estuaries
3. Improved water supply potential at low Lake levels
4. Potential to supplant a portion of ASR requirements

Staffing Impacts

- | | |
|--|-------------------------------|
| 1. LOWP PIR and Accelerated Components | 2 Staff FTEs, 1 contract FTE |
| 2. Forward Pumps | 2 Staff FTEs, 1 contract FTE |
| 3. Both | 3 Staff FTEs, 2 contract FTEs |