Curry Lake Restoration as an example
Restoration Weirs similar to Curry Lake weir

Proposed Development
Utilizes Disturbed Areas
History of Wetlands off and on-site
Restoration of more historic conditions
Rain Gardens
Bio Swales
Master Drainage System
Filter Marshes

Babcock Ranch Concepts as a model for replication



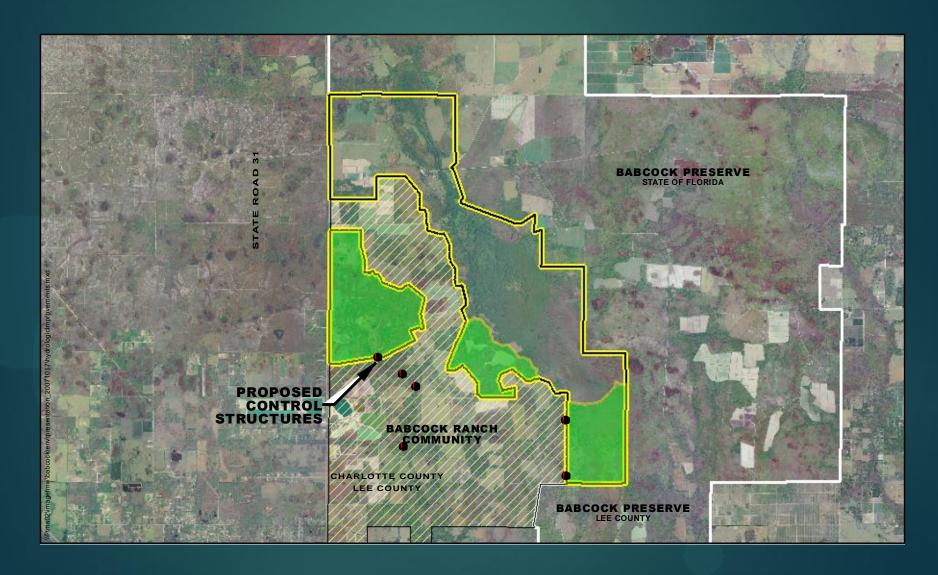








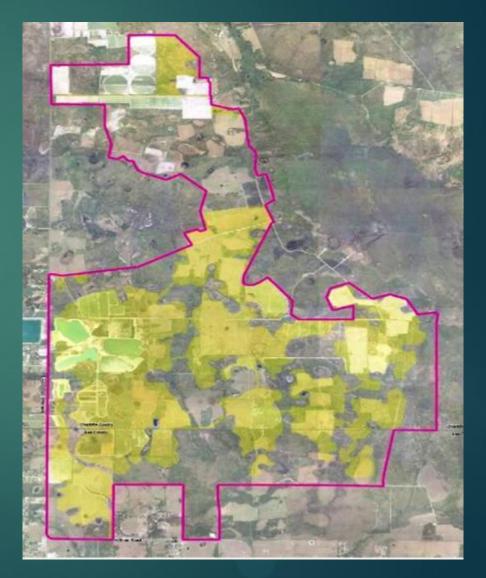






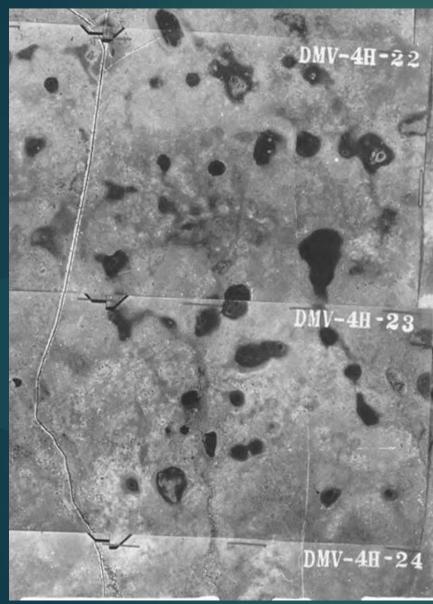
Proposed Development

- Working with nature
- Utilizing disturbed areas









Source: http://ufdc.ufl.edu/aerials



Source: Google Earth



Summary of Literature-Based Runoff Concentrations For Selected Land Use Categories in Florida

Land Use	Typical Runoff Concentration (mg/l)						
Category	TN	TP	BOD	TSS	Cu	Pb	Zn
8. Agricultural a. Pasture b. Citrus c. Row Crops d. General Ag.	3.47 2.24 2.65 2.79	0.616 0.183 0.593 0.431	5.1 2.55 3.8	94.3 15.5 19.8 43.2	0.003 0.022 0.013	0.001 0.004 0.003	0.012 0.030 0.021



Proposed Development

- Rain Gardens for Treatment
- Bioswales for Conveyance
- Nature Trails for Education







BABCOCK RANCH





Trout Creek - Post				
Tract	Runoff	TN Load	TP Load	
Hact	(ac-ft/yr)	(kg/yr)	(kg/yr)	
Α	3339	2413	90.4	
В	0	0	0	
С	843	791	36.7	
D	866	871	33.8	
Е	532	389	11.6	
F	504	255	6.0	
G	0	0	0	
Н	0	0	0	
	0	0	0	
J	85.0	135.8	6.2	
Totals:	6169	4854	184.7	

Owl Creek - Post			
Tract	Runoff (ac-ft/yr)	TN Load (kg/yr)	TP Load (kg/yr)
Α	0	0	0
В	426	582	20.2
С	0	0	0
D	0	0	0
E	0	0	0
F	0	0	0
G	0	0	0
Н	0	0	0
	0	Ö	Ö
J	0	Ō	Ö
Totals:	426	582	20.2

Telegraph Creek - Post			
Tract	Runoff	TN Load	TP Load
Huot	(ac-ft/yr)	(kg/yr)	(kg/yr)
Α	0	0	0
В	0	0	0
С	0	0	0
D	0	0	0
E	0	0	0
F	0	0	0
G	411	238	5.2
Н	627	423	10.3
	349	208	4.9
J	0	0	0
Totals:	1386	868	20.4

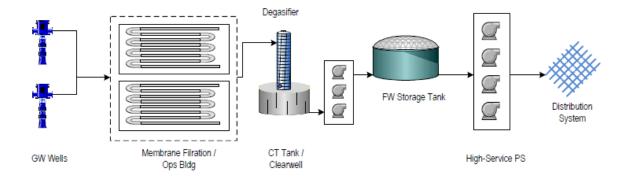
Trout Creek - Pre			
Tract	Runoff	TN Load	TP Load
Hact	(ac-ft/yr)	(kg/yr)	(kg/yr)
Α	2466	4974	637
В	47.1	122	16.8
С	723	1914	265
D	686	1683	218
E	539	1245	157
F	279	689	89.5
G	0	0	0
Н	17.0	35.5	3.7
	18.2	56.8	8.4
J	24.7	40.4	3.7
Totals:	4801	10760	1399

Owl Creek - Pre				
Tract	Runoff	TN Load	TP Load	
Hact	(ac-ft/yr)	(kg/yr)	(kg/yr)	
Α	0.0	0.0	0.0	
В	351	968	138	
С	0	0	0	
D	0	0	0	
E	0	0	0	
F	0	0	0	
G	0	0	0	
Н	0	0	0	
	0	0	0	
J	0	0	0	
Totals:	351	968	138	

Telegraph Creek - Pre				
Tract	Runoff	TN Load	TP Load	
Hact	(ac-ft/yr)	(kg/yr)	(kg/yr)	
Α	0	0	0	
В	0	0	0	
С	0	0	0	
D	0	0	0	
E	0	0	0	
F	38.0	54.3	2.8	
G	225	455	48.1	
Н	490	1270	168.5	
	132	204	12.3	
J	0	0	0.0	
Totals:	885	1984	231.6	

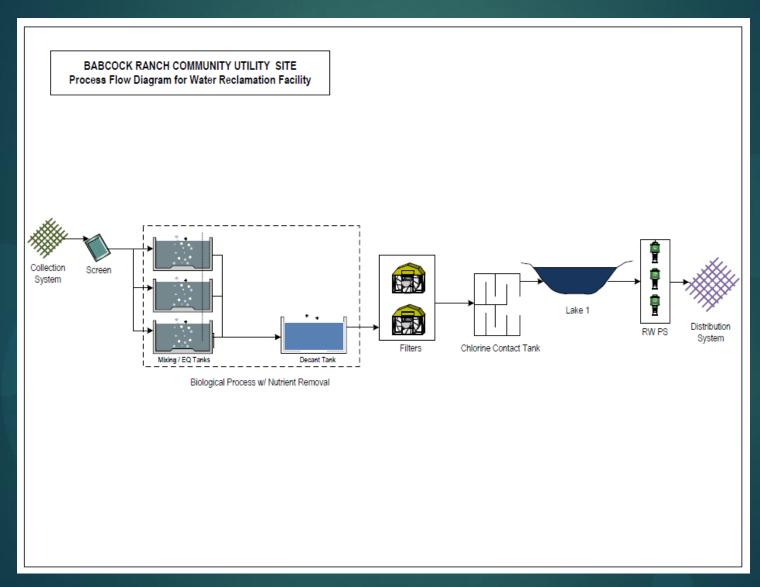
Babcock Ranch Utilities

BABCOCK RANCH COMMUNITY UTILITY SITE Process Flow Diagram for Water Treatment Facility



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Babcock Ranch Utilities



Babcock Ranch Utilities

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