## **Baypointe Golf Site Nutrient Removal Unit Costs**

Cell 1	\$1,156,800
Cell 2	\$651,100
Cell 3	\$124,600
Cell 4	\$305,500
Opinion of Probable Construction Cost*	\$2,238,000

## **Engineer's Opinion of Probable Construction Cost**

\*excludes land acquisition, design, and amenities for recreational area

Cost of Land Acquisition	\$800,000	\$1,200,000
*Liens/fines to date of offer		\$499,237
Construction Cost	\$2,238,000	\$2,238,000
Design Cost	\$268,560	\$268,560
Total Upfront Costs	\$3,306,560	\$4,205,797
Annual Maintenance Cost	\$50,000	\$50,000
Cost of Capital, %	7%	7%
Number of Periods, years	30	30
Annualized Total Cost	\$316,463.78	\$388,930.01

\*liens are the total cost of the liens/fines before any negotiated reduction

### Cost per Pound of Pollutant Removed

	TN Removed (lb/yr)	TP Removed (lb/yr)
Cell 1	463.14	102.6
Cell 2	197.31	40.37
Cell 3	61.53	20.92
Cell 4	49.87	16.58
Total	771.85	180.47
Cost per lb removed (land purchase included)	\$504	\$2,155

# \* Project discharges to a coastal system; use coastal comps

CFI - Co	bastal			
High			<\$646	<\$4,715
Med				
Low			>\$646	>\$4,715
CFI - Ge	neral			
High		<\$176		<\$1,498
Med		\$176-\$475		\$1,498-\$4,152
Low		>\$475		>\$4,152

## **CFI Process Overview**

### METRICS FOR RANKING COST EFFECTIVENESS

	Water Supp	ly Projects	
Project Type	High	Medium	Low
Reuse (cost/gpd)	<\$10	\$10-\$15	>\$15
Brackish (cost/gpd)	<\$10	\$10-\$15	>\$15
Surface Water (cost/gpd)	<\$15	\$15-\$20	>\$20
Seawater (cost/gpd)	<\$20	\$20-\$25	>\$25
Other AWS (cost/gpd)	<\$10	\$10-\$15	>\$15
Conservation (cost/1000 gallons saved)	≤\$3	\$3.01-\$6	>\$6
	Water Quali (cost/lb of pollu	ty Projects tant removed)	
Project Type	High	Medium	Low
Total Nitrogen (cost/lb)	<\$176	≥\$176 ≤ \$475	>\$475
Total Phosphorus (cost/lb)	<\$1498	≥\$1498 ≤ \$4152	>\$4152
Septic Conversion Total Nitrogen (cost/lb)	<\$100	≥\$100 ≤ \$176	>\$176
Project Type	ost/acre restored; cos	t/linear foot restored	d) Low
Shoreline Restoration	≤\$269 per linear feet	N/A	>\$269 per linear feet
Upland (Exotics removal)	≤\$2,348 per acre	N/A	>\$2,348 per acre
Dredging	TBD on similar projects	TBD on similar projects	TBD on similar projects
Hydrologic Restoration	≤\$1,775 per acre	N/A	>\$1,775 per acre
Combined elements	≤\$53,326 per acre	N/A	>\$53,326 per acre
	Flood Protect	tion Projects	
Project Type	High	Medium	Low
BMPs (benefit/cost ratio)	≥1	0.7-0.9	<0.7
BMPs (when benefit/cost ratio is not available)	N/A	Costs based on design. Estimates appear reasonable.	Costs based on conceptual level, or, Costs high compared to similar project
Watershed Management Plan (cost/sq. mile) Excludes LiDAR and Peer Review costs	Urban: ≤\$66,000 Rural: ≤\$12,000 Mixed: ≤\$20,000	Urban: \$66,001-\$87,000 Rural: \$12,001-\$20,000 Mixed: \$20,001-\$41,000	Urban: >\$87,000 Rural: >\$20,000 Mixed: >\$41,000
Watershed Management Plan Updates (cost/sq. mile) (Watershed Evaluation, Floodplain Analysis, and Alternatives Analysis)	Urban: ≤\$25,000 Rural: ≤\$6,000 Mixed: ≤\$15,000	Urban: \$25,001-\$40,000 Rural: \$6,001-\$10,000 Mixed: \$15,001-\$22,000	Urban: >\$40,000 Rural: >\$10,000 Mixed: >\$22,000

#### VISAY 07-25-19

Southwest Florida Water Management District CFI Process Overview

#### Water Quality Projects - Based on past projects average Cost/lb of pollutant removed and average Cost/acre treated

2

Project Type – Urban/Suburban	High	Medium	Low
Water Quality BMP Implementation (TN target pollutant)	Cost/lb TN \$224 or less and Cost/acre \$8,050 or less	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TN more than \$224 and Cost/acre more than \$8,050
Water Quality BMP Implementation (TP target pollutant)	Cost/lb TP \$896 or less and Cost/acre \$8,050 or less	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TP more than \$896 and Cost/acre more than \$8,050
Water Quality BMP Implementation (TSS target pollutant)	Cost/lb TSS \$12 or less and Cost/acre \$8,050 or less	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TSS more than \$12 and Cost/acre more than \$8,050

Project Type – Costal/LID	High	Medium	Low
Water Quality BMP) Implementation (TN target) pollutant)	Cost/lb TN \$646 or less and Cost/acre (\$46,947 or less)	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TN more than \$646 and Cost/acre more than \$46,947
Water Quality BMP) Implementation (TP target) pollutant)	Cost/lb TP \$4,715 or less and Cost/acre \$46,947 or less	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TP more (than \$4,715 and Cost/acre more (than \$46,947
Water Quality BMP Implementation (TSS target pollutant)	Cost/lb TSS \$20 or less and Cost/acre \$46,947 or less	High for Cost/lb and Low for Cost/acre or Low for Cost/lb and High for Cost/Acre	Cost/lb TSS more than \$20 and Cost/acre more than \$46,947