DRAFT
Comprehensive Plan Cost Comparison
3/8/2018

	UAO COST ESTIMATE JULY 2012	EXPENDED TO DATE POST SETTLEMENT 02/28/2017	COST TO COMPLETE REMAINING 2017-2021	TOTAL COST AT COMPLETION IN 5 YEARS	TOTAL COST AT COMPLETION WITH COMMENCEMENT	% Contingency	Cost to complete with contingency	2017	2018	2019	2020	2021	SUBTOTAL	2022	2023	2024	TOTAL (Cost to Complete Remaining Includes below the line LTM costs)	RFP date	Start	Finish	NOTES
			Project Complete in 5 Years																		
MassDEP Funding		$ 500,000	$ 1,000,000	$ 1,500,000	$ 1,500,000	0%	$ 1,000,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 1,000,000				$ 1,500,000.00				2014-2021 - STD for 3 years - Needs verification from 3/3/17 meeting - based on EPA comment
USACE Funding		$ 1,300,000	$ 8,300,000	$ 12,200,000	$ 15,400,000	10%	$ 9,150,000	$ 2,750,000	$ 2,750,000	$ 1,210,000	$ 1,210,000	$ 1,210,000	$ 9,150,000				$ 9,150,000.00				Per Corps - $3.9M (2014-2016), 2.1M (2017-2018), $1.1M/yr (2019 - 2021)
Pre-Serv Contract (WQM-Marsh)		$ 7,500,000	$ 12,600,000	$ 20,000,000	$ 32,000,000	10%	$ 13,750,000	$ 2,750,000	$ 2,750,000	$ 2,750,000	$ 2,750,000	$ 2,750,000	$ 13,750,000				$ 13,750,000.00				assumes $2.5M/yr - plan provided by Corps
Intertidal	$ 78,400,753						$ -														
UH Intertidal		$ -	$ 44,811,200	$ 44,811,200	$ 53,533,440	20%	$ 53,533,440	$ 12,000,000	$ 41,533,440				$ 53,533,440				$ 53,533,440.00	12/1/2017	5/1/2018	8/1/2019	Assume work start in 3/18 and is fully funded and east and west sides will simultaneously
Parcel 255		$ 2,224,499	$ -	$ 2,224,499	$ 2,224,499	0%	$ -														Not included in UAO estimate
FMC		$ 2,298,298	$ 1,908,845	$ 5,104,465	$ 5,714,654	10%	$ 4,106,476	$ 4,106,476					$ 4,106,476				$ 4,106,476.10				UAO included this with intertidal volume. CTC includes SES, T&D, sheetpile install, add'l 535 CY due to resurvey
LH		$ -	$ 1,822,086	$ 1,822,086	$ 2,433,128	34%	$ 2,433,128	$ 2,433,128					$ 2,433,128				$ 2,433,127.58	12/1/2017	5/1/2018	4/1/2019	Estimate from Jacobs proposal dated May 17, 2016; added fee in Rev8
BB		$ -	$ 945,770	$ 945,770	$ 1,044,747	10%	$ 1,044,747		$ 1,044,747				$ 1,044,747				$ 1,044,747.00	5/1/2018	9/30/2018	10/29/2018	
Marsh Island	$ 1,380,452		$ 2,502,357	$ 3,882,809	$ 2,652,848	10%	$ 2,653,848	$ 1,782,000					$ 1,782,000				$ 1,782,000.00	4/1/2017	8/1/2017	11/1/2017	Cost from RAC TO#5 proposal June 2 2017
Aerovox							$ -														
Aerovox Interim Cap		$ -	$ 4,000,000	$ 4,000,000	$ 6,240,000	30%	$ 6,240,000	$ 6,240,000					$ 6,240,000				$ 6,240,000.00	10/1/2017	5/1/2018	7/1/2018	Assumes 3 ft reaction sand cover (per Corps direction). Temporary solution does not complete final remedy.
Interim Cap LTM			$ 750,000	$ 750,000	$ 900,000	20%	$ 900,000		$ 180,000	$ 180,000	$ 180,000	$ 180,000	$ 720,000	$ 180,000.00			$ 900,000.00				Assumes annual benthic and sampling of rover and reporting. No replacement costs.
							$ -														
Cell 1	$ 23,958,500						$ -														
Cell 1 Interim Remedy			$ 1,000,000	$ 1,000,000	$ 1,200,000	20%	$ 1,200,000		$ 1,000,000	$ 50,000	$ 50,000	$ 100,000	$ 1,200,000				$ 1,200,000.00	10/2016	5/1/2018	5/1/2020	
							$ -														
Full Demob	$ 7,977,328	$ -	$ 6,785,470	$ 6,785,470	$ 7,810,370	30%	$ 7,810,370			$ 3,250,000	$ 3,250,000	$ 1,310,370	$ 7,810,370				$ 7,810,370.47	10/1/2016	11/1/2019	1/1/2023	CTC from May 2016 Jacobs proposal. Contingency based upon undefined future status and necessary improvement of Areas C and D
Dredge & Fill LHCC	$ 39,838,504			$ -	$ -	0%	$ -														
Construct CAD Cell		$ 9,961,009	$ -	$ 9,961,009	$ 9,961,009	0%	$ -						$ -								UAO costs for all work related to CAD Cell, less the $11.3M from EPA HQ (need to verify if paid back)
Dredge and Fill LHCC - Jacobs		$ 13,000,000	$ -	$ 13,000,000	$ 13,000,000	0%	$ -						$ -								Jacobs LH dredging to date
Pre-BV - UH E LH to LHCC Mechanical - Jacobs		$ 780,430	$ 3,466,218	$ 4,196,563	$ 5,036,580	20%	$ 4,087,463		$ 4,087,463				$ 4,087,463				$ 4,087,463.36	2/16/2016	5/1/2018	10/29/2018	Completed
Post BV - UH E LH to LHCC Mechanical - Jacobs		$ -	$ 3,408,400	$ 3,408,400	$ 3,818,240	12%	$ 3,818,240				$ 3,591,942		$ 3,591,942				$ 3,591,942.00				One plant 120 days (assuming UH CTC plus STC&D, MUS, T&T), includes current Jacobs costs
Dredge and Fill LHCC - BV		$ -	$ 17,000,000	$ 17,000,000	$ 19,700,000	10%	$ 19,700,000	$ 18,700,000					$ 18,700,000				$ 18,700,000.00	1/1/2017	5/1/2017	5/1/2019	Per USACE E-mail (3/16/17) changed from $18M to $17M. Rough Cost Contract estimate
Survey Contract - BV		$ -	$ 700,000	$ 700,000	$ 700,000	0%	$ 700,000	$ 700,000					$ 700,000				$ 700,000.00		5/1/2017	5/1/2018	Per USACE E-mail (3/16/17) changed from $800k to $700k. Based on award to Bryant
Between the Bridges Subtotal		$ -	$ 5,378,657	$ 5,378,657	$ 6,454,388	20%	$ 6,454,388		$ 6,454,388				$ 6,454,388				$ 6,454,388.10	5/1/2016	8/30/2016	10/29/2016	Negotiated and Awarded, added fee in Rev9
Dredge Cleanup Passes - Jacobs			$ 2,508,000	$ 2,508,000	$ 2,758,800	10%	$ 2,758,800		$ 2,758,800				$ 2,758,800				$ 2,758,800.00	2/1/2016	8/1/2016	5/1/2018	10% cleanup passes based on BV CTC
Cap LHCC	$ 5,780,300	$ -	$ 5,100,000	$ 5,100,000	$ 5,980,500	18%	$ 5,992,500			$ 5,992,500			$ 5,992,500				$ 5,992,500.00	7/1/2019	11/1/2019	1/1/2020	Cost estimate from EPA
													$ -								
Hydraulic Dredging	$ 154,456,281	$ 63,101,828	$ -	$ 63,101,828	$ 63,101,828	0%	$ -						$ -								2014 through 2016 dredging less $12M. FMC, Parcel 255 and Bed cover
Temporary Pipeline Reno		$ -	$ 1,238,669	$ 1,238,669	$ 1,238,669	0%	$ 1,238,669	$ 1,238,669					$ 1,238,669				$ 1,238,669.00				Negotiated and Awarded
Capping DDA		$ -	$ -	$ -	$ -	20%	$ -						$ -				$ -				Capping of DDA cost estimated from ESD 4
Residual management sand		$ -	$ 11,700,000	$ 11,700,000	$ 13,670,000	10%	$ 12,870,000		$ 12,870,000				$ 12,870,000				$ 12,870,000.00	11/1/2016	5/1/2019	11/1/2019	This is an assumed volume of 100,000 cy mechanical placement
LTM Restoration																					
LHCC CAM	$ 580,763	$ -	$ 660,052	$ 660,052	$ 660,052	0%	$ 660,052				$ 80,000	$ 80,000	$ 160,000	$ 80,000.00		$ 80,000.00	$ 320,000.00				Year 1 after restoration and Year 5
Seafood Monitoring	$ 721,387	$ -	$ 579,290	$ 579,290	$ 579,290	0%	$ 579,290			$ 579,290			$ 579,290		$ -	$ 579,289.93	$ 1,158,579.28				Costs from NaudDEF
Site-Wide Benthic LTM	$ 918,700	$ 538,021	$ 590,000	$ 1,066,021	$ 1,140,322	5%	$ 577,500			$ 577,500			$ 577,500		$ 577,500.00		$ 1,155,000.00				Cost to Complete is escalated UAO cost (3.5%), assume 1/5yr
Fixed Costs	$ 54,527,816						$ -						$ -								Jacobs Fixed Costs
Project Management and Admin		$ 1,696,800	$ 5,244,034	$ 5,944,334	$ 10,938,504	10%	$ 6,609,064	$ 666,126	$ 1,332,253	$ 1,332,253	$ 1,332,253	$ 1,332,254	$ 5,995,139	$ 666,126.50			$ 6,661,264.00				
Site Ops and Warehouse		$ 2,628,572	$ 4,440,198	$ 7,068,771	$ 7,775,650	10%	$ 4,884,171	$ 484,596	$ 969,190	$ 969,190	$ 969,190	$ 969,195	$ 4,361,861	$ 484,596.10			$ 4,845,961.00				
Air Monitoring		$ 907,244	$ 757,846	$ 1,665,090	$ 1,830,599	10%	$ 844,778		$ 168,940	$ 168,940	$ 168,940	$ 168,958	$ 676,781	$ 168,940.38			$ 844,721.51				
							$ -														
SUBTOTAL	$ 370,839,808	$ 110,809,804	$ 151,196,724	$ 262,006,528	$ 287,914,160		$ 174,919,793	$ 54,127,867	$ 78,299,230	$ 17,258,890	$ 13,782,336	$ 8,330,782	$ 171,799,105	$ 1,679,259.78	$ 577,500.00	$ 579,289.93	$ 174,355,914.76				Complete all work listed above.
SETTLEMENT AMOUNT			$ 382,250,000	$ 388,350,000			$ -														
INTEREST			$ 6,500,000	$ 6,500,000			$ -														EPA assumption, correct interest rate and values to be provided, per EPA SEM in call. Funding but not in contingency.