COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL AT TIDAL WETLANDS WITH 26,000 FT. OF PIPELINE - SCENARIO 1
(21 CY Clamshell Dredge, with Lightly Loaded Scows, 43 N. Miles, Hydraulic Unloader and Boosters)

								Dredge	Transport	Placement
Mobilization and Demobilization							$ 669,000	121,941	294,034	253,024
Operating Costs										
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211			268,211		
1	Hyd. Unloader	1.00	Months @ $	434,486	434,486					434,486
2	Booster Pump	1.00	Months @ $	144,040	288,080					288,080
4	Towing Tug	1.00	Months @ $	224,232	896,928				896,928	
2	Tending Tug	1.00	Months @ $	80,840	161,680			80,840		80,840
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039			43,039		
6	Dump Scows	1.00	Months @ $	6,250	37,500				37,500	
1	Shore Crew	1.00	Months @ $	140,555	140,555					140,555
1	Superv/Engrg	1.00	Months @ $	84,540	84,540			14,599	34,793	35,148
			Total Operating Costs			$ 2,355,019		406,689	969,221	979,109
Ownership Costs										
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079			171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280					82,280
2	Booster Pump	1.00	Months @ $	16,255	32,510					32,510
4	Towing Tug	1.00	Months @ $	65,706	262,824				262,824	
2	Tending Tug	1.00	Months @ $	12,248	24,496			12,248		12,248
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252			8,252		
6	Dump Scows	1.00	Months @ $	36,994	221,964				221,964	
			Total Ownership Costs	$	803,405			191,579	484,788	127,038
	Market Factor @	50%				401,703		95,790	242,394	63,519
				Total Direct Costs		$ 2,756,722		502,479	1,211,615	1,042,628
	Overhead @	15%				413,508		75,372	181,742	156,394
				Sub Total		$ 3,170,230		577,851	1,393,357	1,199,022
	Contingency @	10%				317,023		57,785	139,336	119,902
	Profit @	15%				475,535		86,678	209,004	179,853
				Sub Total		$ 3,962,788		722,313	1,741,696	1,498,778
	Bond @	0.5%				19,814		3,612	8,708	7,494
				Total Dredge Price			$ 3,982,602	725,925	1,750,405	1,506,271

$$\frac{3{,}982{,}602 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 12.00 \text{ \$/CY}$$

Dredge	Transport	Placement
2.19	5.27	4.54

$$\frac{669{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 4.46 \text{ \$/CY}$$

COST SUMMARY

NEW WORK DREDGING WITH DISPOSAL AT TIDAL WETLANDS WITH 10,000 FT. OF PIPELINE - SCENARIO 2

(21 CY Clamshell Dredge, with Lightly Loaded Scows, 20 N. Miles, Hydraulic Unloader and Boosters)

							Dredge	Transport	Plac[illegible]
Mobilization and Demobilization						$ 627,000	176,668	221,642	[illegible]
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
1	Hyd. Unloader	1.00	Months @ $	358,646	358,646				[illegible]
0	Booster Pump	1.00	Months @ $	144,040	0				
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
2	Tending Tug	1.00	Months @ $	80,840	161,680		80,840		[illegible]
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
1	Shore Crew	1.00	Months @ $	140,555	140,555				[illegible]
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		22,930	27,689	[illegible]
			Total Operating Costs		$	1,530,135	415,020	501,153	[illegible]
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280				[illegible]
0	Booster Pump	1.00	Months @ $	16,255	0				
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
2	Tending Tug	1.00	Months @ $	12,248	24,496		12,248		[illegible]
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$	565,495		191,579	279,388	[illegible]
	Market Factor @	50%				282,748	95,790	139,694	[illegible]
			Total Direct Costs		$	1,812,883	510,809	640,847	[illegible]
	Overhead @	15%				271,932	76,621	96,127	[illegible]
			Sub Total		$	2,084,815	587,431	736,974	[illegible]
	Contingency @	10%				208,482	58,743	73,697	[illegible]
	Profit @	15%				312,722	88,115	110,546	[illegible]
			Sub Total		$	2,606,019	734,288	921,217	[illegible]
	Bond @	0.5%				13,030	3,671	4,606	[illegible]
			Total Dredge Price		$	2,619,049	737,960	925,823	[illegible]

$$\frac{2{,}619{,}049 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 7.89 \text{ \$/CY}$$

	Dredge	Transport	Plac[illegible]
$/CY	2.22	2.79	[illegible]

$$\frac{627{,}000 \text{ Mobilization Price \$}}{5{,}000{,}000 \text{ Total Pay Cubic Yards}} = 0.13 \text{ \$/CY}$$

COST SUMMARY

MAINTENANCE DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 1

(21 CY Clamshell Dredge, with Scows, 74 N. Miles - Excluding Shore Crane & Crew Mob and Operating Cost)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 84,000	18,392	65,608	0
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
6	Towing Tug	1.00	Months @ $	224,232	1,345,392			1,345,392	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
8	Dump Scows	1.00	Months @ $	6,250	50,000			50,000	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		18,544	65,996	0
			Total Operating Costs		$	1,872,022	410,634	1,461,388	0
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
6	Towing Tug	1.00	Months @ $	65,706	394,236			394,236	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		0
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
8	Dump Scows	1.00	Months @ $	36,994	295,952			295,952	
			Total Ownership Costs	$	881,767		191,579	690,188	0
Market Factor @	50%					440,884	95,790	345,094	0
				Total Direct Costs	$	2,312,906	506,424	1,806,482	0
Overhead @	15%					346,936	75,964	270,972	0
				Sub Total	$	2,659,842	582,387	2,077,454	0
Contingency @	10%					265,984	58,239	207,745	0
Profit @	15%					398,976	87,358	311,618	0
				Sub Total	$	3,324,802	727,984	2,596,818	0
Bond @	0.5%					16,624	3,640	12,984	0
				Total Dredge Price		$ 3,341,426	731,624	2,609,802	0

$$\frac{3{,}341{,}426 \text{ Dredge Price \$}}{436{,}000 \text{ Pay Cubic Yards/ Month}} = 7.66 \text{ \$/CY}$$

Dredge	Transport	Placement
1.68	5.99	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 0.56 \text{ \$/CY}$$

COST SUMMARY
MAINTENANCE DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 2
(21 CY Clamshell Dredge, with Scows, 22 N. Miles - Excluding Shore Crane & Crew Mob and Operating Cost)

								Dredge	Transport	Placement
	Mobilization and Demobilization						$ 84,000	37,280	46,720	0
	Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211			268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0					0
0	Booster Pump	1.00	Months @ $	144,040	0					0
2	Towing Tug	1.00	Months @ $	224,232	448,464				448,464	
1	Tending Tug	1.00	Months @ $	80,840	80,840			80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039			43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000				25,000	
0	Shore Crew	1.00	Months @ $	140,555	0					0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540			38,296	46,244	0
			Total Operating Costs			$ 950,094		430,386	519,708	0
	Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079			171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0					0
0	Booster Pump	1.00	Months @ $	16,255	0					0
2	Towing Tug	1.00	Months @ $	65,706	131,412				131,412	
1	Tending Tug	1.00	Months @ $	12,248	12,248			12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252			8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976				147,976	
			Total Ownership Costs	$	470,967			191,579	279,388	0
	Market Factor @	50%				235,484		95,790	139,694	0
			Total Direct Costs			$ 1,185,578		526,176	659,402	0
	Overhead @	15%				177,837		78,926	98,910	0
			Sub Total			$ 1,363,415		605,102	758,312	0
	Contingency @	10%				136,342		60,510	75,831	0
	Profit @	15%				204,512		90,765	113,747	0
			Sub Total			$ 1,704,269		756,377	947,890	0
	Bond @	0.5%				8,521		3,782	4,739	0
			Total Dredge Price				$ 1,712,790	760,159	952,630	0

1,712,790	Dredge Price $	=	3.93 $/CY	1.74 / 2.18 / 0.00
436,000	Pay Cubic Yards/ Month			
84,000	Mobilization Price $	=	0.06 $/CY	
1,500,000	Total Pay Cubic Yards			

COST SUMMARY

NEW WORK DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 1

(21 CY Clamshell Dredge, with Scows, 74 N. Miles - Excluding Shore Crane & Crew Mob and Operating Cost)

Qty	Item	Rate	Amount	Total	Dredge	Transport	Placement
	Mobilization and Demobilization			$ 84,000	24,628	59,372	0
	Operating Costs						
1	Clamshell Dredge	1.00 Months @ $ 268,211	268,211		268,211		
0	Hyd. Unloader	1.00 Months @ $ 434,486	0				0
0	Booster Pump	1.00 Months @ $ 144,040	0				0
4	Towing Tug	1.00 Months @ $ 224,232	896,928			896,928	
1	Tending Tug	1.00 Months @ $ 80,840	80,840		80,840		
1	Survey/Crewboat	1.00 Months @ $ 43,039	43,039		43,039		
6	Dump Scows	1.00 Months @ $ 6,250	37,500			37,500	
0	Shore Crew	1.00 Months @ $ 140,555	0				0
1	Superv/Engrg	1.00 Months @ $ 84,540	84,540		24,988	59,552	0
	Total Operating Costs			$ 1,411,058	417,078	993,980	0
	Ownership Costs						
1	Clamshell Dredge	1.00 Months @ $ 171,079	171,079		171,079		
0	Hyd. Unloader	1.00 Months @ $ 82,280	0				0
0	Booster Pump	1.00 Months @ $ 16,255	0				0
4	Towing Tug	1.00 Months @ $ 65,706	262,824			262,824	
1	Tending Tug	1.00 Months @ $ 12,248	12,248		12,248		0
1	Survey/Crewboat	1.00 Months @ $ 8,252	8,252		8,252		
6	Dump Scows	1.00 Months @ $ 36,994	221,964			221,964	
	Total Ownership Costs		$ 676,367		191,579	484,788	0
	Market Factor @ 50%			338,184	95,790	242,394	0
	Total Direct Costs			$ 1,749,242	512,868	1,236,374	0
	Overhead @ 15%			262,386	76,930	185,456	0
	Sub Total			$ 2,011,628	589,798	1,421,830	0
	Contingency @ 10%			201,163	58,980	142,183	0
	Profit @ 15%			301,744	88,470	213,274	0
	Sub Total			$ 2,514,535	737,247	1,777,287	0
	Bond @ 0.5%			12,573	3,686	8,886	0
	Total Dredge Price			$ 2,527,108	740,934	1,786,174	0

$$\frac{2{,}527{,}108 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 7.61 \text{ \$/CY}$$

	Dredge	Transport	Placement
$/CY	2.23	5.38	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 0.56 \text{ \$/CY}$$

COST SUMMARY

NEW WORK DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 2

(21 CY Clamshell Dredge, with Scows, 22 N. Miles - Excluding Shore Crane & Crew Mob and Operating Cost)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 84,000	37,280	46,720	0
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		38,296	46,244	0
			Total Operating Costs		$	950,094	430,386	519,708	0
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$	470,967		191,579	279,388	0
	Market Factor @	50%				235,484	95,790	139,694	0
			Total Direct Costs		$	1,185,578	526,176	659,402	0
	Overhead @	15%				177,837	78,926	98,910	0
			Sub Total		$	1,363,415	605,102	758,312	0
	Contingency @	10%				136,342	60,510	75,831	0
	Profit @	15%				204,512	90,765	113,747	0
			Sub Total		$	1,704,269	756,377	947,890	0
	Bond @	0.5%				8,521	3,782	4,739	0
			Total Dredge Price			$ 1,712,790	760,159	952,630	0

$$\frac{1{,}712{,}790 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 5.16 \text{ \$/CY}$$

	Dredge	Transport	Placement
$/CY	2.29	2.87	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{5{,}000{,}000 \text{ Total Pay Cubic Yards}} = 0.02 \text{ \$/CY}$$

COST SUMMARY
MAINTENANCE DREDGING WITH DISPOSAL IN BAY - SCENARIO 1
(21 CY Clamshell Dredge, with Scows, 22 N. Miles)

							Dredge	Transport	Placement
	Mobilization and Demobilization					$ 84,000	37,280	46,720	0
	Operating Costs								
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		38,296	46,244	0
			Total Operating Costs		$	950,094	430,386	519,708	0
	Ownership Costs								
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		0
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$	470,967		191,579	279,388	0
	Market Factor @	50%				235,484	95,790	139,694	0
			Total Direct Costs		$	1,185,578	526,176	659,402	0
	Overhead @	15%				177,837	78,926	98,910	0
			Sub Total		$	1,363,415	605,102	758,312	0
	Contingency @	10%				136,342	60,510	75,831	0
	Profit @	15%				204,512	90,765	113,747	0
			Sub Total		$	1,704,269	756,377	947,890	0
	Bond @	0.5%				8,521	3,782	4,739	0
			Total Dredge Price			$ 1,712,790	760,159	952,630	0

$$\frac{1{,}712{,}790 \text{ Dredge Price \$}}{436{,}000 \text{ Pay Cubic Yards/ Month}} = 3.93 \text{ \$/CY}$$

	Dredge	Transport	Placement
$/CY	1.74	2.18	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 0.56 \text{ \$/CY}$$

COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL IN BAY - SCENARIO 1
(21 CY Clamshell Dredge, with Scows, 22 N. Miles)

Qty	Item	Duration		Rate	Amount	Total	Dredge	Transport	Placemen
	Mobilization and Demobilization					$ 84,000	37,280	46,720	0
	Operating Costs								
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		38,296	46,244	0
			Total Operating Costs		$	950,094	430,386	519,708	0
	Ownership Costs								
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		0
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$	470,967		191,579	279,388	0
	Market Factor @	50%				235,484	95,790	139,694	0
			Total Direct Costs		$	1,185,578	526,176	659,402	0
	Overhead @	15%				177,837	78,926	98,910	0
			Sub Total		$	1,363,415	605,102	758,312	0
	Contingency @	10%				136,342	60,510	75,831	0
	Profit @	15%				204,512	90,765	113,747	0
			Sub Total		$	1,704,269	756,377	947,890	0
	Bond @	0.5%				8,521	3,782	4,739	0
			Total Dredge Price			$ 1,712,790	760,159	952,630	0

1,712,790	Dredge Price $	=	5.16	$/CY	2.29	2.87	0.00
332,000	Pay Cubic Yards/ Month						
84,000	Mobilization Price $	=	0.56	$/CY			
150,000	Total Pay Cubic Yards						

COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL IN BAY - SCENARIO 2
(21 CY Clamshell Dredge, with Scows, 5 N. Miles)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 84,000	50,198	33,802	0
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
1	Towing Tug	1.00	Months @ $	224,232	224,232			224,232	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
3	Dump Scows	1.00	Months @ $	6,250	18,750			18,750	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		52,195	32,345	0
	Total Operating Costs					$ 719,612	444,285	275,327	0
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
1	Towing Tug	1.00	Months @ $	65,706	65,706			65,706	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
3	Dump Scows	1.00	Months @ $	36,994	110,982			110,982	
	Total Ownership Costs				$ 368,267		191,579	176,688	0
Market Factor @	50%					184,134	95,790	88,344	0
			Total Direct Costs			$ 903,746	540,074	363,671	0
Overhead @	15%					135,562	81,011	54,551	0
			Sub Total			$ 1,039,308	621,085	418,222	0
Contingency @	10%					103,931	62,109	41,822	0
Profit @	15%					155,896	93,163	62,733	0
			Sub Total			$ 1,299,135	776,356	522,778	0
Bond @	0.5%					6,496	3,882	2,614	0
			Total Dredge Price			$ 1,305,631	780,238	525,392	0

1,305,631 Dredge Price $
—————————————— = 3.93 $/CY | 2.35 | 1.58 | 0.00
332,000 Pay Cubic Yards/ Month

84,000 Mobilization Price $
—————————————— = 0.02 $/CY
5,000,000 Total Pay Cubic Yards

COST SUMMARY
MAINTENANCE DREDGING WITH DISPOSAL IN OCEAN - SCENARIO 1
(21 CY Clamshell Dredge, with Scows, 80 N. Miles)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 84,000	18,392	65,608	0
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				0
0	Booster Pump	1.00	Months @ $	144,040	0				0
6	Towing Tug	1.00	Months @ $	224,232	1,345,392			1,345,392	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
8	Dump Scows	1.00	Months @ $	6,250	50,000			50,000	
0	Shore Crew	1.00	Months @ $	140,555	0				0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		18,544	65,996	0
			Total Operating Costs		$	1,872,022	410,634	1,461,388	0
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
6	Towing Tug	1.00	Months @ $	65,706	394,236			394,236	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		0
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
8	Dump Scows	1.00	Months @ $	36,994	295,952			295,952	
			Total Ownership Costs	$	881,767		191,579	690,188	0
	Market Factor @	50%				440,884	95,790	345,094	0
			Total Direct Costs		$	2,312,906	506,424	1,806,482	0
	Overhead @	15%				346,936	75,964	270,972	0
			Sub Total		$	2,659,842	582,387	2,077,454	0
	Contingency @	10%				265,984	58,239	207,745	0
	Profit @	15%				398,976	87,358	311,618	0
			Sub Total		$	3,324,802	727,984	2,596,818	0
	Bond @	0.5%				16,624	3,640	12,984	0
			Total Dredge Price			$ 3,341,426	731,624	2,609,802	0

$$\frac{3{,}341{,}426 \text{ Dredge Price \$}}{436{,}000 \text{ Pay Cubic Yards/ Month}} = \boxed{7.66} \text{ \$/CY}$$

Dredge	Transport	Placement
1.68	5.99	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = \boxed{0.56} \text{ \$/CY}$$

COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL IN OCEAN - SCENARIO 1
(21 CY Clamshell Dredge, with Scows, 80 N. Miles)

Qty	Item	Months		Rate	Amount	Subtotal	Total	Dredge	Transport	Placement
	Mobilization and Demobilization						$ 84,000	21,058	62,942	0
	Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211			268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0					0
0	Booster Pump	1.00	Months @ $	144,040	0					0
5	Towing Tug	1.00	Months @ $	224,232	1,121,160				1,121,160	
1	Tending Tug	1.00	Months @ $	80,840	80,840			80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039			43,039		
7	Dump Scows	1.00	Months @ $	6,250	43,750				43,750	
0	Shore Crew	1.00	Months @ $	140,555	0					0
1	Superv/Engrg	1.00	Months @ $	84,540	84,540			21,289	63,251	0
			Total Operating Costs			$ 1,641,540		413,379	1,228,161	0
	Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079			171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0					0
0	Booster Pump	1.00	Months @ $	16,255	0					0
5	Towing Tug	1.00	Months @ $	65,706	328,530				328,530	
1	Tending Tug	1.00	Months @ $	12,248	12,248			12,248		0
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252			8,252		
7	Dump Scows	1.00	Months @ $	36,994	258,958				258,958	
			Total Ownership Costs	$	779,067			191,579	587,488	0
	Market Factor @	50%				389,534		95,790	293,744	0
			Total Direct Costs			$ 2,031,074		509,169	1,521,905	0
	Overhead @	15%				304,661		76,375	228,286	0
			Sub Total			$ 2,335,735		585,544	1,750,191	0
	Contingency @	10%				233,574		58,554	175,019	0
	Profit @	15%				350,360		87,832	262,529	0
			Sub Total			$ 2,919,669		731,930	2,187,738	0
	Bond @	0.5%				14,598		3,660	10,939	0
			Total Dredge Price				$ 2,934,267	735,590	2,198,677	0

$$\frac{2{,}934{,}267 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 8.84 \text{ \$/CY}$$

Dredge	Transport	Placement
2.22	6.62	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 0.56 \text{ \$/CY}$$

COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL IN OCEAN - SCENARIO 2
(21 CY Clamshell Dredge, with Scows, 62 N. Miles)

Qty	Item	Months		Rate	Amount	Total	Dredge	Transport	Placeme
	Mobilization and Demobilization					$ 84,000	24,628	59,372	
	Operating Costs								
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				
0	Booster Pump	1.00	Months @ $	144,040	0				
4	Towing Tug	1.00	Months @ $	224,232	896,928			896,928	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
6	Dump Scows	1.00	Months @ $	6,250	37,500			37,500	
0	Shore Crew	1.00	Months @ $	140,555	0				
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		24,988	59,552	
			Total Operating Costs			$ 1,411,058	417,078	993,980	0
	Ownership Costs								
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				0
0	Booster Pump	1.00	Months @ $	16,255	0				0
4	Towing Tug	1.00	Months @ $	65,706	262,824			262,824	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
6	Dump Scows	1.00	Months @ $	36,994	221,964			221,964	
			Total Ownership Costs		$ 676,367		191,579	484,788	0
	Market Factor @	50%				338,184	95,790	242,394	0
			Total Direct Costs			$ 1,749,242	512,868	1,236,374	0
	Overhead @	15%				262,386	76,930	185,456	0
			Sub Total			$ 2,011,628	589,798	1,421,830	0
	Contingency @	10%				201,163	58,980	142,183	0
	Profit @	15%				301,744	88,470	213,274	0
			Sub Total			$ 2,514,535	737,247	1,777,287	0
	Bond @	0.5%				12,573	3,686	8,886	0
			Total Dredge Price			$ 2,527,108	740,934	1,786,174	0

$$\frac{2{,}527{,}108 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 7.61 \text{ \$/CY}$$

Dredge	Transport	Placeme
2.23	5.38	0.00

$$\frac{84{,}000 \text{ Mobilization Price \$}}{5{,}000{,}000 \text{ Total Pay Cubic Yards}} = 0.02 \text{ \$/CY}$$

COST SUMMARY

MAINTENANCE DREDGING WITH DISPOSAL AT LANDFILL REHANDLING FACILITY W/ 26,000 FT. OF PIPELINE - SCENARIO 1

(21 CY Clamshell Dredge, with Lightly Loaded Scows, 43 N. Miles, Hydraulic Unloader and Boosters)

Item		Qty	Unit	Rate	Amount	Subtotal	Total	Dredge	Transport	Placement
Mobilization and Demobilization							$ 669,000	110,335	329,822	228,843
Operating Costs										
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211			268,211		
1	Hyd. Unloader	1.00	Months @ $	434,486	434,486					434,486
2	Booster Pump	1.00	Months @ $	144,040	288,080					288,080
5	Towing Tug	1.00	Months @ $	224,232	1,121,160				1,121,160	
2	Tending Tug	1.00	Months @ $	80,840	161,680			80,840		80,840
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039			43,039		
7	Dump Scows	1.00	Months @ $	6,250	43,750				43,750	
1	Shore Crew	1.00	Months @ $	140,555	140,555					140,555
1	Superv/Engrg	1.00	Months @ $	84,540	84,540			13,254	39,377	31,909
			Total Operating Costs		$	2,585,501		405,344	1,204,287	975,870
Ownership Costs										
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079			171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280					82,280
2	Booster Pump	1.00	Months @ $	16,255	32,510					32,510
5	Towing Tug	1.00	Months @ $	65,706	328,530				328,530	
2	Tending Tug	1.00	Months @ $	12,248	24,496			12,248		12,248
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252			8,252		
7	Dump Scows	1.00	Months @ $	36,994	258,958				258,958	
			Total Ownership Costs	$	906,105			191,579	587,488	127,038
Market Factor @		50%				453,053		95,790	293,744	63,519
				Total Direct Costs	$	3,038,554		501,133	1,498,031	1,039,389
Overhead @		15%				455,783		75,170	224,705	155,908
				Sub Total	$	3,494,337		576,303	1,722,736	1,195,297
Contingency @		10%				349,434		57,630	172,274	119,530
Profit @		15%				524,151		86,445	258,410	179,295
				Sub Total	$	4,367,922		720,379	2,153,420	1,494,121
Bond @		0.5%				21,840		3,602	10,767	7,471
				Total Dredge Price			$ 4,389,762	723,981	2,164,187	1,501,592

4,389,762 Dredge Price $ / 436,000 Pay Cubic Yards/ Month = 10.07 $/CY

Dredge	Transport	Placement
1.66	4.96	3.44

669,000 Mobilization Price $ / 150,000 Total Pay Cubic Yards = 4.46 $/CY

COST SUMMARY

MAINTENANCE DREDGING WITH DISPOSAL AT LANDFILL REHANDLING FACILITY W/ 26,000 FT. OF PIPELINE - SCENARIO 1

(21 CY Clamshell Dredge, with Lightly Loaded Scows, 20 N. Miles, Hydraulic Unloader and Boosters)

Qty	Item	Factor		Rate	Amount	Total	Dredge	Transport	Placer
	Mobilization and Demobilization					$ 627,000	176,668	221,642	228
	Operating Costs								
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
1	Hyd. Unloader	1.00	Months @ $	358,646	358,646				358,
0	Booster Pump	1.00	Months @ $	144,040	0				
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
2	Tending Tug	1.00	Months @ $	80,840	161,680		80,840		80,
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
1	Shore Crew	1.00	Months @ $	140,555	140,555				140,
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		22,930	27,689	33,
	Total Operating Costs				$	1,530,135	415,020	501,153	613,
	Ownership Costs								
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280				82,2
0	Booster Pump	1.00	Months @ $	16,255	0				
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
2	Tending Tug	1.00	Months @ $	12,248	24,496		12,248		12,2
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
	Total Ownership Costs			$	565,495		191,579	279,388	94,5
	Market Factor @	50%				282,748	95,790	139,694	47,2
	Total Direct Costs				$	1,812,883	510,809	640,847	661,2
	Overhead @	15%				271,932	76,621	96,127	99,18
	Sub Total				$	2,084,815	587,431	736,974	760,41
	Contingency @	10%				208,482	58,743	73,697	76,04
	Profit @	15%				312,722	88,115	110,546	114,06
	Sub Total				$	2,606,019	734,288	921,217	950,51
	Bond @	0.5%				13,030	3,671	4,606	4,75
	Total Dredge Price					$ 2,619,049	737,960	925,823	955,26
	2,619,049 Dredge Price $ / 436,000 Pay Cubic Yards/ Month =					6.01 $/CY	1.69	2.12	2.1
	627,000 Mobilization Price $ / 1,500,000 Total Pay Cubic Yards =					0.42 $/CY			

COST SUMMARY
NEW WORK DREDGING WITH DISPOSAL AT LANDFILL REHANDLING FACILITY W/ 26,000 FT. OF PIPELINE - SCENARIO 1
(21 CY Clamshell Dredge, with Lightly Loaded Scows, 43 N. Miles, Hydraulic Unloader and Boosters)

Qty	Item	Rate / %		Unit Cost	Amount	Total	Dredge	Transport	Placement
	Mobilization and Demobilization					$ 669,000	121,941	294,034	253,024
	Operating Costs								
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
1	Hyd. Unloader	1.00	Months @ $	434,486	434,486				434,486
2	Booster Pump	1.00	Months @ $	144,040	288,080				288,080
4	Towing Tug	1.00	Months @ $	224,232	896,928			896,928	
2	Tending Tug	1.00	Months @ $	80,840	161,680		80,840		80,840
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
6	Dump Scows	1.00	Months @ $	6,250	37,500			37,500	
1	Shore Crew	1.00	Months @ $	140,555	140,555				140,555
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		14,599	34,793	35,148
	Total Operating Costs					$ 2,355,019	406,689	969,221	979,109
	Ownership Costs								
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280				82,280
2	Booster Pump	1.00	Months @ $	16,255	32,510				32,510
4	Towing Tug	1.00	Months @ $	65,706	262,824			262,824	
2	Tending Tug	1.00	Months @ $	12,248	24,496		12,248		12,248
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
6	Dump Scows	1.00	Months @ $	36,994	221,964			221,964	
	Total Ownership Costs				$ 803,405		191,579	484,788	127,038
	Market Factor @	50%				401,703	95,790	242,394	63,519
	Total Direct Costs					$ 2,756,722	502,479	1,211,615	1,042,628
	Overhead @	15%				413,508	75,372	181,742	156,394
	Sub Total					$ 3,170,230	577,851	1,393,357	1,199,022
	Contingency @	10%				317,023	57,785	139,336	119,902
	Profit @	15%				475,535	86,678	209,004	179,853
	Sub Total					$ 3,962,788	722,313	1,741,696	1,498,778
	Bond @	0.5%				19,814	3,612	8,708	7,494
	Total Dredge Price					$ 3,982,602	725,925	1,750,405	1,506,271

$$\frac{3{,}982{,}602 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 12.00 \text{ \$/CY}$$

	Dredge	Transport	Placement
\$/CY	2.19	5.27	4.54

$$\frac{669{,}000 \text{ Mobilization Price \$}}{150{,}000 \text{ Total Pay Cubic Yards}} = 4.46 \text{ \$/CY}$$

COST SUMMARY

NEW WORK DREDGING WITH DISPOSAL AT LANDFILL REHANDLING FACILITY W/ 26,000 FT. OF PIPELINE - SCENARIO 1

(21 CY Clamshell Dredge, with Lightly Loaded Scows, 20 N. Miles, Hydraulic Unloader and Boosters)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 627,000	176,668	221,642	228,690
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
1	Hyd. Unloader	1.00	Months @ $	358,646	358,646				358,646
0	Booster Pump	1.00	Months @ $	144,040	0				0
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
2	Tending Tug	1.00	Months @ $	80,840	161,680		80,840		80,840
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
1	Shore Crew	1.00	Months @ $	140,555	140,555				140,555
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		22,930	27,689	33,921
			Total Operating Costs		$ 1,530,135		415,020	501,153	613,962
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
1	Hyd. Unloader	1.00	Months @ $	82,280	82,280				82,280
0	Booster Pump	1.00	Months @ $	16,255	0				0
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
2	Tending Tug	1.00	Months @ $	12,248	24,496		12,248		12,248
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$ 565,495			191,579	279,388	94,528
Market Factor @	50%				282,748		95,790	139,694	47,264
			Total Direct Costs		$ 1,812,883		510,809	640,847	661,226
Overhead @	15%				271,932		76,621	96,127	99,184
			Sub Total		$ 2,084,815		587,431	736,974	760,410
Contingency @	10%				208,482		58,743	73,697	76,041
Profit @	15%				312,722		88,115	110,546	114,062
			Sub Total		$ 2,606,019		734,288	921,217	950,513
Bond @	0.5%				13,030		3,671	4,606	4,753
			Total Dredge Price			$ 2,619,049	737,960	925,823	955,266

$$\frac{2{,}619{,}049 \text{ Dredge Price \$}}{332{,}000 \text{ Pay Cubic Yards/ Month}} = 7.89 \text{ \$/CY}$$

	Dredge	Transport	Placement
$/CY	2.22	2.79	2.88

$$\frac{627{,}000 \text{ Mobilization Price \$}}{5{,}000{,}000 \text{ Total Pay Cubic Yards}} = 0.13 \text{ \$/CY}$$

COST SUMMARY
SMALL PROJECT DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 1
(21 CY Clamshell Dredge, with Scows, 74 N. Miles)

Qty	Item	Months		Rate	Amount	Subtotal	Total	Dredge	Transport	Placement
	Mobilization and Demobilization						$ 168,000	36,784	82,010	49,206
	Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211			268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0					
0	Booster Pump	1.00	Months @ $	144,040	0					
6	Towing Tug	1.00	Months @ $	224,232	1,345,392				1,345,392	
1	Tending Tug	1.00	Months @ $	80,840	80,840			80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039			43,039		
8	Dump Scows	1.00	Months @ $	6,250	50,000				50,000	
0	Shore Crew	1.00	Months @ $	140,555	0					
1	Superv/Engrg	1.00	Months @ $	84,540	84,540			18,544	65,996	
	Total Operating Costs					$ 1,872,022		410,634	1,461,388	
	Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079			171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0					
0	Booster Pump	1.00	Months @ $	16,255	0					
6	Towing Tug	1.00	Months @ $	65,706	394,236				394,236	
1	Tending Tug	1.00	Months @ $	12,248	12,248			12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252			8,252		
8	Dump Scows	1.00	Months @ $	36,994	295,952				295,952	
	Total Ownership Costs				$ 881,767			191,579	690,188	
	Market Factor @	50%				440,884		95,790	345,094	
	Total Direct Costs					$ 2,312,906		506,424	1,806,482	
	Overhead @	15%				346,936		75,964	270,972	
	Sub Total					$ 2,659,842		582,387	2,077,454	
	Contingency @	10%				265,984		58,239	207,745	
	Profit @	15%				398,976		87,358	311,618	
	Sub Total					$ 3,324,802		727,984	2,596,818	
	Bond @	0.5%				16,624		3,640	12,984	
	Total Dredge Price						$ 3,341,426	731,624	2,609,802	
								1.68	5.99	2.00

$$\frac{168{,}000 \text{ Mobilization Price \$}}{10{,}000 \text{ Total Pay Cubic Yards}} = \boxed{16.80} \text{ \$/CY}$$

COST SUMMARY

SMALL PROJECT DREDGING WITH MECHANICAL UNLOADING FOR LEVEE REHABILITATION - SCENARIO 2

(21 CY Clamshell Dredge, with Scows, 22 N. Miles - Excluding Shore Crane & Crew Mob and Operating Cost)

							Dredge	Transport	Placement
Mobilization and Demobilization						$ 168,000	36,784	82,010	49,206
Operating Costs									
1	Clamshell Dredge	1.00	Months @ $	268,211	268,211		268,211		
0	Hyd. Unloader	1.00	Months @ $	434,486	0				
0	Booster Pump	1.00	Months @ $	144,040	0				
2	Towing Tug	1.00	Months @ $	224,232	448,464			448,464	
1	Tending Tug	1.00	Months @ $	80,840	80,840		80,840		
1	Survey/Crewboat	1.00	Months @ $	43,039	43,039		43,039		
4	Dump Scows	1.00	Months @ $	6,250	25,000			25,000	
0	Shore Crew	1.00	Months @ $	140,555	0				
1	Superv/Engrg	1.00	Months @ $	84,540	84,540		38,296	46,244	
			Total Operating Costs		$	950,094	430,386	519,708	
Ownership Costs									
1	Clamshell Dredge	1.00	Months @ $	171,079	171,079		171,079		
0	Hyd. Unloader	1.00	Months @ $	82,280	0				
0	Booster Pump	1.00	Months @ $	16,255	0				
2	Towing Tug	1.00	Months @ $	65,706	131,412			131,412	
1	Tending Tug	1.00	Months @ $	12,248	12,248		12,248		
1	Survey/Crewboat	1.00	Months @ $	8,252	8,252		8,252		
4	Dump Scows	1.00	Months @ $	36,994	147,976			147,976	
			Total Ownership Costs	$	470,967		191,579	279,388	
	Market Factor @	50%				235,484	95,790	139,694	
			Total Direct Costs		$	1,185,578	526,176	659,402	
	Overhead @	15%				177,837	78,926	98,910	
			Sub Total		$	1,363,415	605,102	758,312	
	Contingency @	10%				136,342	60,510	75,831	
	Profit @	15%				204,512	90,765	113,747	
			Sub Total		$	1,704,269	756,377	947,890	
	Bond @	0.5%				8,521	3,782	4,739	
			Total Dredge Price			$ 1,712,790	760,159	952,630	
							1.74	2.18	2.00

168,000 Mobilization Price $ / 50,000 Total Pay Cubic Yards	=	3.36	$/CY