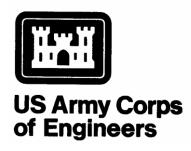
# Appendix M

## **MII COST ESTIMATE**



**New Orleans District** 

Houma Navigation Canal Terrebonne Parish, Louisiana

**Cost Engineering Report** 

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E.1 Designer Provided Relocations Quantities

## TOTAL PROJECT COST SUMMARY

Construction

\$208,300

\$86,200 \$294,500

PROJECT: Houma Navigation Canal Deepening Project - Construction

PROJECT NO P2 # 443513 LOCATION: Houma, LA

This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

ESTIMATED FEDERAL COST:

ESTIMATED NON-FEDERAL COST: 10%

**ESTIMATED TOTAL PROJECT COST:** 

8/24/2017

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST					CT FIRST COS					TAL PROJE( (FULLY FUN		
WBS NUMBER A 02 09	Civil Works  Feature & Sub-Feature Description  B  RELOCATIONS CHANNELS & CANALS	COST (\$K) C \$37,022 \$103,387	CNTG (\$K) D \$7,775 \$21,711	CNTG (%) E 21.0% 21.0%	TOTAL (\$K) F \$44,797 \$125,098	ESC (%) G			Budget EC): Level Date: TOTAL (SK) J \$44,797 \$125,098	2018 1 OCT 17 Spent Thru: 3/22/2017 (\$K) \$0	TOTAL FIRST COST (\$K) K \$44,797 \$125,098	INFLATED (%) L 11.0% 12.9%	COST (\$K) M \$41,083 \$116,769	CNTG (\$K) N \$8,627 \$24,521	FULL (\$K) O	\$49,710 \$141,290
	CONSTRUCTION ESTIMATE TOTALS:	\$140,409	\$29,486		\$169,895	0.0%	\$140,409	\$29,486	\$169,895	\$0	\$169,895	12.4%	\$157,851	\$33,149		\$191,000
01	LANDS AND DAMAGES	\$10,274	\$2,569	25.0%	\$12,843	0.0%	\$10,274	\$2,569	\$12,843	\$0	\$12,843	4.1%	\$10,694	\$2,673		\$13,367
30	PLANNING, ENGINEERING & DESIGN	\$38,613	\$8,109	21.0%	\$46,722	0.0%	\$38,613	\$8,109	\$46,722	\$0	\$46,722	25.0%	\$48,283	\$10,139		\$58,423
31	CONSTRUCTION MANAGEMENT	\$20,362	\$4,276	21.0%	\$24,638	0.0%	\$20,362	\$4,276	\$24,638	\$0	\$24,638	28.8%	\$26,221	\$5,506		\$31,727
	PROJECT COST TOTALS:	\$209,658	\$44,439	21.2%	\$254,097		\$209,658	\$44,439	\$254,097	\$0	\$254,097	15.9%	\$243,049	\$51,468		\$294,518

CHIEF, COST ENGINEERING, XXX

PROJECT MANAGER, XXX

CHIEF, REAL ESTATE, XXX

CHIEF, PLANNING,XXX

CHIEF, ENGINEERING, XXX

CHIEF, OPERATIONS, XXX

CHIEF, CONSTRUCTION, XXX

CHIEF, CONTRACTING,XXX

CHIEF, PM-PB, XXXX

CHIEF, DPM, XXX

Filename: HNC\_TPCS\_-\_Construction\_-\_Rev\_1.xlsm

**TPCS** 

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: LOCATION: Houma Navigation Canal Deepening Project - Construction

0

Houma, LA

This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED: 8/24/2017

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant D				тот	AL PROJECT COST (	FULLY FUNDE	ED)
			nate Prepared ive Price Lev		<b>24-Aug-17</b> 1-Oct-17		n Year (Budg re Price Leve		2018 1 OCT 17					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Mid-Point	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	_(\$K)_	_(\$K)_	_(%)_	_(\$K)_	_(%)_	_(\$K)_	_(\$K)_	(\$K)	Date	_(%)_	_(\$K)_	_(\$K)_	_(\$K)_
A	В	C	D	E	F	G	H	I	J	P	L	M	N	0
	RELOCATIONS CONTRACT 1													
02	RELOCATIONS	\$13,268	\$2,786	21.0%	\$16,054	0.0%	\$13,268	\$2,786	\$16,054	2021Q2	6.7%	\$14,157	\$2,973	\$17,130
	CONSTRUCTION ESTIMATE TOTALS:	\$13,268	\$2,786	21.0%	\$16,054	-	\$13,268	\$2,786	\$16,054			\$14,157	\$2,973	\$17,130
		·												
01	LANDS AND DAMAGES	\$10,274	\$2,569	25.0%	\$12,843	0.0%	\$10,274	\$2,569	\$12,843	2020Q1	4.1%	\$10,694	\$2,673	\$13,367
30	PLANNING, ENGINEERING & DESIGN													
2.5%		\$332	\$70	21.0%	\$402	0.0%	\$332	\$70	\$402	2020Q4	11.5%	\$370	\$78	\$448
1.0%	•	\$133	\$28	21.0%	\$161	0.0%	\$133	\$28	\$161	2020Q4	11.5%	\$148	\$31	\$179
15.0%	0 0	\$1,990	\$418	21.0%	\$2,408	0.0%	\$1,990	\$418	\$2,408	2020Q4	11.5%	\$2,220	\$466	\$2,686
1.0%		\$133	\$28	21.0%	\$161	0.0%	\$133	\$28	\$161	2020Q4	11.5%	\$148	\$31	\$179
1.0%		\$133	\$28	21.0%	\$161	0.0%	\$133	\$28	\$161	2020Q4	11.5%	\$148	\$31	\$179
1.0%	0 . 0 .	\$133	\$28	21.0%	\$161	0.0%	\$133	\$28	\$161	2020Q4	11.5%	\$148	\$31	\$179
3.0%	0 0	\$398	\$84	21.0%	\$482	0.0%	\$398	\$84	\$482	2021Q4	16.1%	\$462	\$97	\$559
2.0%	0 0	\$265	\$56	21.0%	\$321	0.0%	\$265	\$56	\$321	2021Q4	16.1%	\$308	\$65	\$372
1.0%	Project Operations	\$133	\$28	21.0%	\$161	0.0%	\$133	\$28	\$161	2020Q4	11.5%	\$148	\$31	\$179
31	CONSTRUCTION MANAGEMENT													
10.0%		\$1,327	\$279	21.0%	\$1,606	0.0%	\$1,327	\$279	\$1,606	2021Q4	16.1%	\$1,541	\$324	\$1,864
2.0%	· ·	\$265	\$56	21.0%	\$321	0.0%	\$265	\$56	\$321	2021Q4	16.1%	\$308	\$65	\$372
2.5%	, .	\$332	\$70	21.0%	\$402	0.0%	\$332	\$70	\$402	2021Q4	16.1%	\$385	\$81	\$466
2.070		Ψ002	ψ. 0	2	Ψ.32	0.070	<b>VOOL</b>	ψ. 0	Ψ.0 <u>2</u>	202.00		\$000	ΨΟ.	<b>\$</b> 400
	CONTRACT COST TOTALS:	\$29,116	\$6,525		\$35,641		\$29,116	\$6,525	\$35,641			\$31,186	\$6,977	\$38,163

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: LOCATION: Houma Navigation Canal Deepening Project - Construction

0

Houma, LA

This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant D				тс	OTAL PROJECT COST (	FULLY FUNDI	ED)
			nate Prepared tive Price Lev		<b>24-Aug-17</b> 1-Oct-17		n Year (Budç ve Price Leve		2018 1 OCT 17					
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST _(\$K)_	CNTG _(\$K)_	CNTG _(%)_	TOTAL (\$K)	ESC _(%)_	COST _(\$K)	CNTG _(\$K)_	TOTAL _(\$K)_	Mid-Point <u>Date</u>	INFLATED	COST _(\$K)	CNTG _(\$K)_	FULL <u>(\$K)</u>
A	В	C	D	E	F	G	Н	1	J	P	L	M	N	0
02	RELOCATIONS CONTRACT 2 RELOCATIONS	\$11,131	\$2,338	21.0%	\$13,469	0.0%	\$11,131	\$2,338	\$13,469	2023Q3	11.6%	\$12,419	\$2,608	\$15,027
		, , -	* /		, .,		, , -	* ,	* -,			, ,	. ,	,.
	CONSTRUCTION ESTIMATE TOTALS:	\$11,131	\$2,338	21.0%	\$13,469		\$11,131	\$2,338	\$13,469			\$12,419	\$2,608	\$15,027
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
20														
<b>30</b> 2.5%	PLANNING, ENGINEERING & DESIGN  5 Project Management	\$278	\$58	21.0%	\$336	0.0%	\$278	\$58	\$336	2022Q2	18.4%	\$329	\$69	\$398
1.0%		\$276 \$111	\$23	21.0%	\$134	0.0%	\$111	\$23	\$134	2022Q2 2022Q2	18.4%	\$131	\$28	\$159
15.0%		\$1,670	\$351	21.0%	\$2,021	0.0%	\$1,670	\$351	\$2,021	2022Q2	18.4%	\$1,978	\$415	\$2,393
1.0%		\$111	\$23	21.0%	\$134	0.0%	\$111	\$23	\$134	2022Q2	18.4%	\$131	\$28	\$159
1.0%	Life Cycle Updates (cost, schedule, risks)	\$111	\$23	21.0%	\$134	0.0%	\$111	\$23	\$134	2022Q2	18.4%	\$131	\$28	\$159
1.0%	Contracting & Reprographics	\$111	\$23	21.0%	\$134	0.0%	\$111	\$23	\$134	2022Q2	18.4%	\$131	\$28	\$159
3.0%	0 0	\$334	\$70	21.0%	\$404	0.0%	\$334	\$70	\$404	2023Q3	24.6%	\$416	\$87	\$504
2.0%	0 0	\$223	\$47	21.0%	\$270	0.0%	\$223	\$47	\$270	2023Q3	24.6%	\$278	\$58	\$336
1.0%	6 Project Operations	\$111	\$23	21.0%	\$134	0.0%	\$111	\$23	\$134	2022Q2	18.4%	\$131	\$28	\$159
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$1,113	\$234	21.0%	\$1,347	0.0%	\$1,113	\$234	\$1,347	2023Q3	24.6%	\$1,387	\$291	\$1,678
2.0%	Project Operation:	\$223	\$47	21.0%	\$270	0.0%	\$223	\$47	\$270	2023Q3	24.6%	\$278	\$58	\$336
2.5%	6 Project Management	\$278	\$58	21.0%	\$336	0.0%	\$278	\$58	\$336	2023Q3	24.6%	\$346	\$73	\$419
	CONTRACT COST TOTALS:	\$15,805	\$3,319		\$19,124		\$15,805	\$3,319	\$19,124	<u> </u>		\$18,088	\$3,799	\$21,887

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: LOCATION: Houma Navigation Canal Deepening Project - Construction

0

Houma, LA

This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant D				тот	TAL PROJECT COST (	FULLY FUNDE	D)
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-17		n Year (Budo re Price Leve		2018 1 OCT 17					
WBS NUMBER <b>A</b>	Civil Works Feature & Sub-Feature Description B RELOCATIONS CONTRACT 3	COST (\$K) <b>C</b>	CNTG _(\$K) 	CNTG _(%) <i>E</i>	TOTAL _(\$K)_ <i>F</i>	ESC (%) <b>G</b>	COST (\$K) <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED (%) L	COST _(\$K) <i>M</i>	CNTG _(\$K) 	FULL (\$K) O
02	RELOCATIONS	\$12,623	\$2,651	21.0%	\$15,274	0.0%	\$12,623	\$2,651	\$15,274	2025Q1	14.9%	\$14,507	\$3,046	\$17,553
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$12,623	\$2,651	21.0%	\$15,274	-	\$12,623	\$2,651	\$15,274			\$14,507	\$3,046	\$17,553
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.59	, 0	\$316	\$66	21.0%	\$382	0.0%	\$316	\$66	\$382	2023Q4	25.9%	\$398	\$84	\$481
1.09		\$126	\$26	21.0%	\$152	0.0%	\$126	\$26	\$152	2023Q4	25.9%	\$159	\$33	\$192
15.09	0 0	\$1,893	\$398	21.0%	\$2,291	0.0%	\$1,893	\$398	\$2,291	2023Q4	25.9%	\$2,383	\$500	\$2,883
1.09		\$126 \$126	\$26 \$26	21.0% 21.0%	\$152 \$152	0.0% 0.0%	\$126 \$126	\$26 \$26	\$152 \$152	2023Q4 2023Q4	25.9% 25.9%	\$159 \$159	\$33 \$33	\$192 \$192
1.09		\$126 \$126	\$26	21.0%	\$152 \$152	0.0%	\$126	\$26	\$152 \$152	2023Q4 2023Q4	25.9%	\$159	\$33	\$192
3.09	0 . 0 .	\$379	\$80	21.0%	\$459	0.0%	\$379	\$80	\$459	2024Q4	31.2%	\$497	\$104	\$602
2.09		\$252	\$53	21.0%	\$305	0.0%	\$252	\$53	\$305	2024Q4	31.2%	\$331	\$69	\$400
1.09	% Project Operations	\$126	\$26	21.0%	\$152	0.0%	\$126	\$26	\$152	2023Q4	25.9%	\$159	\$33	\$192
31	CONSTRUCTION MANAGEMENT													
10.09	% Construction Management	\$1,262	\$265	21.0%	\$1,527	0.0%	\$1,262	\$265	\$1,527	2024Q4	31.2%	\$1,656	\$348	\$2,004
2.09		\$252	\$53	21.0%	\$305	0.0%	\$252	\$53	\$305	2024Q4	31.2%	\$331	\$69	\$400
2.59	% Project Management	\$316	\$66	21.0%	\$382	0.0%	\$316	\$66	\$382	2024Q4	31.2%	\$415	\$87	\$502
	CONTRACT COST TOTALS:	\$17,923	\$3,764		\$21,687		\$17,923	\$3,764	\$21,687			\$21,310	\$4,475	\$25,785

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: Houma Navigation Canal Deepening Project - Construction

LOCATION: Houma, LA

This Estimate reflects the scope and schedule in report; 0

DISTRICT: New Orleans District

POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Norks Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant D				тота	AL PROJECT COST (	FULLY FUNDE	ED)	
			ate Prepared ve Price Leve		<b>24-Aug-17</b> 1-Oct-17		ram Year (Bective Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT	ESTIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B CONSTRUCTION CONTRACT 1	COST _(\$K)_ <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC _(%) 	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ <i>J</i>	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)L	COST _(\$K) <i>M</i>	CNTG _(\$K)_ <b>N</b>	FULL _(\$K)	
09	CHANNELS & CANALS	\$25,607	\$5,377	21.0%	\$30,984	0.0%	\$25,607	\$5,377	\$30,984	2022Q4	9.9%	\$28,150	\$5,911		\$34,061
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$25,607	\$5,377	21.0%	\$30,984	-	\$25,607	\$5,377	\$30,984			\$28,150	\$5,911		\$34,061
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0		\$0
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$640	\$134	21.0%	\$774	0.0%	\$640	\$134	\$774	2022Q2	18.4%	\$758	\$159		\$917
1.0%	Planning & Environmental Compliance	\$256	\$54	21.0%	\$310	0.0%	\$256	\$54	\$310	2022Q2	18.4%	\$303	\$64		\$367
15.0%	0 0	\$3,841	\$807	21.0%	\$4,648	0.0%	\$3,841	\$807	\$4,648	2022Q2	18.4%	\$4,549	\$955		\$5,505
1.0%		\$256	\$54	21.0%	\$310	0.0%	\$256	\$54	\$310	2022Q2	18.4%	\$303	\$64		\$367
1.0%		\$256	\$54	21.0%	\$310	0.0%	\$256	\$54	\$310	2022Q2	18.4%	\$303	\$64		\$367
1.0%	0 . 0 .	\$256	\$54	21.0%	\$310	0.0%	\$256	\$54	\$310	2022Q2	18.4%	\$303	\$64		\$367
3.0% 2.0%	0 0	\$768 \$512	\$161 \$108	21.0% 21.0%	\$929 \$620	0.0% 0.0%	\$768 \$512	\$161 \$108	\$929 \$620	2023Q2 2023Q2	23.3% 23.3%	\$947 \$631	\$199 \$133		\$1,146 \$764
1.0%		\$256	\$54	21.0%	\$310	0.0%	\$256	\$54	\$310	2022Q2	18.4%	\$303	\$64		\$367
31	CONSTRUCTION MANAGEMENT														
10.0%		\$2,561	\$538	21.0%	\$3,099	0.0%	\$2,561	\$538	\$3,099	2023Q2	23.3%	\$3,158	\$663		\$3,821
2.0%	•	\$512	\$108	21.0%	\$620	0.0%	\$512	\$108	\$620	2023Q2	23.3%	\$631	\$133		\$764
2.5%	Project Management	\$640	\$134	21.0%	\$774	0.0%	\$640	\$134	\$774	2023Q2	23.3%	\$789	\$166		\$955
	CONTRACT COST TOTALS:	\$36,361	\$7,636		\$43,997		\$36,361	\$7,636	\$43,997	<u> </u>		\$41,129	\$8,637		\$49,766

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: Houma Navigation Canal Deepening Project - Construction

LOCATION: Houma, LA

This Estimate reflects the scope and schedule in report; 0

DISTRICT: New Orleans District

POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant E	FIRST COST Dollar Basis			тота	L PROJECT COST (	FULLY FUND	ED)	
			nate Prepared ive Price Lev		<b>24-Aug-17</b> 1-Oct-17		ram Year (B ective Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT	ESTIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B CONSTRUCTION CONTRACT 2	COST _(\$K)_ <b>C</b>	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <i>F</i>	ESC _(%) 	COST _(\$K) <i>H</i>	CNTG _(\$K) 	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)L	COST _(\$K) 	CNTG _(\$K)_ N	FULL _(\$K)_ <b>O</b>	
	CHANNELS & CANALS	\$57,625	\$12,101	21.0%	\$69,726	0.0%	\$57,625	\$12,101	\$69,726	2024Q1	12.7%	\$64,925	\$13,634		\$78,559
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$57,625	\$12,101	21.0%	\$69,726	=	\$57,625	\$12,101	\$69,726			\$64,925	\$13,634		\$78,559
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0		\$0
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$1,441	\$303	21.0%	\$1,744	0.0%	\$1,441	\$303	\$1,744	2023Q4	25.9%	\$1,814	\$381		\$2,195
1.0%	Planning & Environmental Compliance	\$576	\$121	21.0%	\$697	0.0%	\$576	\$121	\$697	2023Q4	25.9%	\$725	\$152		\$877
15.0%	Engineering & Design	\$8,644	\$1,815	21.0%	\$10,459	0.0%	\$8,644	\$1,815	\$10,459	2023Q4	25.9%	\$10,881	\$2,285		\$13,167
1.0%	Reviews, ATRs, IEPRs, VE	\$576	\$121	21.0%	\$697	0.0%	\$576	\$121	\$697	2023Q4	25.9%	\$725	\$152		\$877
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks) Contracting & Reprographics	\$576 \$576	\$121 \$121	21.0% 21.0%	\$697 \$697	0.0% 0.0%	\$576 \$576	\$121 \$121	\$697 \$697	2023Q4 2023Q4	25.9% 25.9%	\$725 \$725	\$152 \$152		\$877 \$877
3.0%	Engineering During Construction	\$576 \$1,729	\$363	21.0%	\$697 \$2,092	0.0%	\$1,729	\$363	\$2.092	2023Q4 2024Q3	25.9% 29.9%	\$7.25 \$2,245	\$152 \$471		\$2,717
2.0%	Planning During Construction	\$1,729	\$242	21.0%	\$1,395	0.0%	\$1,729	\$242	\$1,395	2024Q3 2024Q3	29.9%	\$1,497	\$314		\$1,812
1.0%	Project Operations	\$576	\$121	21.0%	\$697	0.0%	\$576	\$121	\$697	2023Q4	25.9%	\$725	\$152		\$877
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$5,763	\$1,210	21.0%	\$6,973	0.0%	\$5,763	\$1,210	\$6,973	2024Q3	29.9%	\$7,484	\$1,572		\$9,055
2.0%	Project Operation:	\$1,153	\$242	21.0%	\$1,395	0.0%	\$1,153	\$242	\$1,395	2024Q3	29.9%	\$1,497	\$314		\$1,812
2.5%	Project Management	\$1,441	\$303	21.0%	\$1,744	0.0%	\$1,441	\$303	\$1,744	2024Q3	29.9%	\$1,871	\$393		\$2,264
	CONTRACT COST TOTALS:	\$81,829	\$17,184		\$99,013		\$81,829	\$17,184	\$99,013			\$95,840	\$20,126	\$1	115,967

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: Houma Navigation Canal Deepening Project - Construction

LOCATION:

LOCATION: Houma, LA
This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District

POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	Vorks Work Breakdown Structure		ESTIMAT	ED COST			PROJECT F (Constant D				тот	AL PROJECT COST (I	FULLY FUNDE	ED)
			nate Prepared		<b>24-Aug-17</b> 1-Oct-17		ram Year (Bu		2018 1 OCT 17		FULL	Y FUNDED PROJECT	ESTIMATE	
	Civil Works Feature & Sub-Feature Description B CONSTRUCTION CONTRACT 3 CHANNELS & CANALS	COST (\$K) C \$5,881	CNTG _(\$K) 	CNTG _(%) <i>E</i> 21.0%	TOTAL _(\$K) F \$7,116	ESC _(%) _G 0.0%	COST _(\$K)_ H \$5,881	CNTG _(\$K)	TOTAL _(\$K) 	Mid-Point <u>Date</u> P  2025Q4	INFLATED(%)	COST _(\$K)_ M \$6,861	CNTG (\$K) N \$1,441	FULL <u>(\$K)</u> <b>O</b> \$8,301
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,881	\$1,235	21.0%	\$7,116		\$5,881	\$1,235	\$7,116			\$6,861	\$1,441	\$8,301
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$147	\$31	21.0%	\$178	0.0%	\$147	\$31	\$178	2025Q2	34.0%	\$197	\$41	\$238
1.0%	Planning & Environmental Compliance	\$59	\$12	21.0%	\$71	0.0%	\$59	\$12	\$71	2025Q2	34.0%	\$79	\$17	\$96
15.0%	Engineering & Design	\$882	\$185	21.0%	\$1,067	0.0%	\$882	\$185	\$1,067	2025Q2	34.0%	\$1,182	\$248	\$1,430
1.0%	Reviews, ATRs, IEPRs, VE	\$59	\$12	21.0%	\$71	0.0%	\$59	\$12	\$71	2025Q2	34.0%	\$79	\$17	\$96
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59	\$12	21.0%	\$71	0.0%	\$59	\$12	\$71	2025Q2	34.0%	\$79	\$17	\$96
1.0%	Contracting & Reprographics	\$59	\$12	21.0%	\$71	0.0%	\$59	\$12	\$71	2025Q2	34.0%	\$79	\$17	\$96
3.0%	Engineering During Construction	\$176	\$37	21.0%	\$213	0.0%	\$176	\$37	\$213	2026Q1	38.3%	\$243	\$51	\$295
2.0%	Planning During Construction	\$118	\$25	21.0%	\$143	0.0%	\$118	\$25	\$143	2026Q1	38.3%	\$163	\$34	\$197
1.0%	Project Operations	\$59	\$12	21.0%	\$71	0.0%	\$59	\$12	\$71	2025Q2	34.0%	\$79	\$17	\$96
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$588	\$123	21.0%	\$711	0.0%	\$588	\$123	\$711	2026Q1	38.3%	\$813	\$171	\$984
2.0%	Project Operation:	\$118	\$25	21.0%	\$143	0.0%	\$118	\$25	\$143	2026Q1	38.3%	\$163	\$34	\$197
2.5%	Project Management	\$147	\$31	21.0%	\$178	0.0%	\$147	\$31	\$178	2026Q1	38.3%	\$203	\$43	\$246
	CONTRACT COST TOTALS:	\$8,352	\$1,754		\$10,106		\$8,352	\$1,754	\$10,106			\$10,221	\$2,146	\$12,368

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: Houma Navigation Canal Deepening Project - Construction

LOCATION: Houma, LA

This Estimate reflects the scope and schedule in report; 0

DISTRICT: New Orleans District

POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Pollar Basis)			ТОТА	AL PROJECT COST (	FULLY FUNDE	ED)	
			ate Prepared ve Price Leve		<b>24-Aug-17</b> 1-Oct-17		ram Year (Buctive Price L	udget EC): .evel Date:	2018 1 OCT 17		FULLY	FUNDED PROJECT	ESTIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B CONSTRUCTION CONTRACT 4	COST _(\$K) 	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC (%) <b>G</b>	COST (\$K) H	CNTG (\$K) /	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ 	COST _(\$K) <i>M</i>	CNTG _(\$K)_ <b>N</b>	FULL <u>(\$K)</u> <i>O</i>	
09	CHANNELS & CANALS	\$5,676	\$1,192	21.0%	\$6,868	0.0%	\$5,676	\$1,192	\$6,868	2026Q1	17.2%	\$6,653	\$1,397		\$8,051
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,676	\$1,192	21.0%	\$6,868	-	\$5,676	\$1,192	\$6,868			\$6,653	\$1,397		\$8,051
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0		\$0
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$142	\$30	21.0%	\$172	0.0%	\$142	\$30	\$172	2025Q4	36.9%	\$194	\$41		\$235
1.0%	Planning & Environmental Compliance	\$57	\$12	21.0%	\$69	0.0%	\$57	\$12	\$69	2025Q4	36.9%	\$78	\$16		\$94
15.0%	0 0	\$851	\$179	21.0%	\$1,030	0.0%	\$851	\$179	\$1,030	2025Q4	36.9%	\$1,165	\$245		\$1,409
1.0%		\$57	\$12	21.0%	\$69	0.0%	\$57	\$12	\$69	2025Q4	36.9%	\$78	\$16		\$94
1.0%		\$57	\$12	21.0%	\$69	0.0%	\$57	\$12	\$69	2025Q4	36.9%	\$78	\$16		\$94
1.0%	0 . 0 .	\$57	\$12	21.0%	\$69	0.0%	\$57	\$12	\$69	2025Q4	36.9%	\$78	\$16		\$94 \$291
3.0% 2.0%	0 0	\$170 \$114	\$36 \$24	21.0% 21.0%	\$206 \$138	0.0% 0.0%	\$170 \$114	\$36 \$24	\$206 \$138	2026Q3 2026Q3	41.3% 41.3%	\$240 \$161	\$50 \$34		\$291 \$195
1.0%		\$57	\$12	21.0%	\$69	0.0%	\$57	\$12	\$69	2025Q4	36.9%	\$78	\$16		\$94
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$568	\$119	21.0%	\$687	0.0%	\$568	\$119	\$687	2026Q3	41.3%	\$803	\$169		\$971
2.0%	Project Operation:	\$114	\$24	21.0%	\$138	0.0%	\$114	\$24	\$138	2026Q3	41.3%	\$161	\$34		\$195
2.5%	Project Management	\$142	\$30	21.0%	\$172	0.0%	\$142	\$30	\$172	2026Q3	41.3%	\$201	\$42		\$243
	CONTRACT COST TOTALS:	\$8,062	\$1,693		\$9,755		\$8,062	\$1,693	\$9,755			\$9,968	\$2,093		\$12,062

#### \*\*\*\* CONTRACT COST SUMMARY \*\*\*\*

PROJECT: Houma Navigation Canal Deepening Project - Construction

LOCATION:

LOCATION: Houma, LA
This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District

POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMATI	ED COST			PROJECT F (Constant D				тота	AL PROJECT COST (	FULLY FUNDEI	D)
			ate Prepared ve Price Leve		<b>24-Aug-17</b> 1-Oct-17		ram Year (Bi ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT	ESTIMATE	
WBS NUMBER A 09	Civil Works Feature & Sub-Feature Description B CONSTRUCTION CONTRACT 5 CHANNELS & CANALS	COST _(\$K) 	CNTG (\$K) <b>D</b> \$1,806	CNTG _(%) _E 	TOTAL _(\$K)_ F	ESC (%) <b>G</b> 0.0%	COST _(\$K) 	CNTG (\$K) / \$1,806	TOTAL _(\$K) 	Mid-Point  Date P  2026Q3	INFLATED _(%)_ 	COST (\$K) <b>M</b> \$10,180	CNTG _(\$K) N \$2,138	FULL _(\$K)_ <b>O</b> \$12,318
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$8,598	\$1,806	21.0%	10,404	_	\$8,598	\$1,806	\$10,404			\$10,180	\$2,138	\$12,318
01	LANDS AND DAMAGES	\$0	\$0	0.0% \$	-	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	**	\$215	\$45	21.0%	260	0.0%	\$215	\$45	\$260	2026Q2	39.8%	\$300	\$63	\$364
1.0%	-	\$86	\$18	21.0%	104	0.0%	\$86	\$18	\$104	2026Q2	39.8%	\$120	\$25	\$145
15.0%	Engineering & Design	\$1,290	\$271	21.0%	1,561	0.0%	\$1,290	\$271	\$1,561	2026Q2	39.8%	\$1,803	\$379	\$2,182
1.0%	Reviews, ATRs, IEPRs, VE	\$86	\$18	21.0%	104	0.0%	\$86	\$18	\$104	2026Q2	39.8%	\$120	\$25	\$145
1.0%	Life Cycle Updates (cost, schedule, risks)	\$86	\$18	21.0%	\$104	0.0%	\$86	\$18	\$104	2026Q2	39.8%	\$120	\$25	\$145
1.0%	0 . 0 .	\$86	\$18	21.0%	104	0.0%	\$86	\$18	\$104	2026Q2	39.8%	\$120	\$25	\$145
3.0%	0 0	\$258	\$54	21.0%	312	0.0%	\$258	\$54	\$312	2027Q1	44.4%	\$372	\$78	\$451
2.0%	0 0	\$172	\$36	21.0%	208	0.0%	\$172	\$36	\$208	2027Q1	44.4%	\$248	\$52	\$300
1.0%	Project Operations	\$86	\$18	21.0%	104	0.0%	\$86	\$18	\$104	2026Q2	39.8%	\$120	\$25	\$145
31	CONSTRUCTION MANAGEMENT													
10.0%	3	\$860	\$181	21.0%	1,041	0.0%	\$860	\$181	\$1,041	2027Q1	44.4%	\$1,242	\$261	\$1,502
2.0%		\$172	\$36	21.0%	208	0.0%	\$172	\$36	\$208	2027Q1	44.4%	\$248	\$52	\$300
2.5%	Project Management	\$215	\$45	21.0%	260	0.0%	\$215	\$45	\$260	2027Q1	44.4%	\$310	\$65	\$376
	CONTRACT COST TOTALS:	\$12,210	\$2,564		14,774		\$12,210	\$2,564	\$14,774			\$15,306	\$3,214	\$18,520

## TOTAL PROJECT COST SUMMARY

Operation and Maintenance

PROJECT: Houma Navigation Canal Deepening Project PROJECT NO P2 # 443513

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CHIEF, PM-PB, xxxx CHIEF, DPM, xxx

LOCATION: Houma, LA

This Estimate reflects the scope and schedule in report;

DISTRICT: New Orleans District POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST					JECT FIRST CO stant Dollar Ba					TOTAL PROJECT COST (FULLY FUNDED)	
							P	rogram Year Effective Price	(Budget EC): ce Level Date:	2018 1 OCT 17	ı				
WBS <u>NUMBER</u> <b>A</b>	Civil Works <u>Feature &amp; Sub-Feature Description</u> <b>B</b>	COST _(\$K) 	CNTG _(\$K)_ D	CNTG _(%) 	TOTAL _(\$K)_ <i>F</i>	ESC (%) <b>G</b>	COST _(\$K) <i>H</i>	CNTG _(\$K)	TOTAL _(\$K) 	Spent Thru: 3/22/2017 _(\$K)_	TOTAL FIRST COST _(\$K)_ K	INFLATED _(%)L	COST _(\$K)_ M	CNTG _(\$K) N	FULL _(\$K) 
09	CHANNELS & CANALS	\$450,269	\$99,059	22.0%	\$549,328	1.9%	\$458,627	\$100,898	\$559,525	\$0	\$559,525	109.2%	\$959,269	\$211,039	\$1,170,308
	CONSTRUCTION ESTIMATE TOTALS:		 \$99,059	_	 \$549,328	1.9%	\$458 627	 \$100,898	\$559,525	\$0	\$559,525	109.2%		\$211,039	\$1,170,308
01	LANDS AND DAMAGES	\$450,269	фээ,00э -		φ349,320	1.570	\$450,02 <i>1</i>	\$100,030	<b>ф</b> 339,323	\$0	\$0	109.276	φ939,209	φ211,039	\$1,170,308
30	PLANNING, ENGINEERING & DESIGN	\$123,763	\$27,228	22.0%	\$150,991	3.1%	\$127,600	\$28,072	\$155,672	\$0		561.9%	\$844,534	\$185,798	\$1,030,332
31	CONSTRUCTION MANAGEMENT	\$65,293	\$14,364	22.0%	\$79,657	3.1%	\$67,317	\$14,810	\$82,127	\$0	\$82,127	587.7%	\$462,907	\$101,839	\$564,746
	PROJECT COST TOTALS:	\$639,325	\$140,652	22.0%	\$779,977		\$653,544	\$143,780	\$797,323	\$0	\$797,323	246.8%	\$2,266,710	\$498,676	\$2,765,386
		CHIEF, C	COST EN	GINEERI	ING, xxx										
		PROJEC	T MANA	GER, xxx	x					EST	ESTIMATE IMATED NO			100% 0%	\$2,765,400 \$0
		CHIEF, F	REAL ES	TATE, xx	xx					ESTIM	ATED TOTA	L PROJEC	CT COST:		\$2,765,400
		CHIEF, F	PLANNIN	G,xxx											
		CHIEF, E	NGINEE	RING, xx	αx										
		CHIEF, C	PERATI	ONS, xxx	x										
		CHIEF, C	CONSTR	UCTION,	xxx										
		CHIEF, C	CONTRA	CTING,xx	κx										

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K)	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 1 CHANNELS & CANALS	\$8,180	\$1,800	22.0%	\$9,980	1.9%	\$8,332	\$1,833	\$10,165	2028Q3	23.2%	\$10,263	\$2,258	\$12,521
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$8,180	\$1,800	22.0%	\$9,980		\$8,332	\$1,833	\$10,165			\$10,263	\$2,258	\$12,521
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	,	\$205	\$45	22.0%	\$250	3.1%	\$211	\$46	\$258	2028Q2	52.5%	\$322	\$71	\$393
1.0%	Planning & Environmental Compliance	\$82	\$18	22.0%	\$100	3.1%	\$85	\$19	\$103	2028Q2	52.5%	\$129	\$28	\$157
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$1,227 \$82	\$270 \$18	22.0% 22.0%	\$1,497 \$100	3.1% 3.1%	\$1,265 \$85	\$278 \$19	\$1,543 \$103	2028Q2 2028Q2	52.5% 52.5%	\$1,929 \$129	\$424 \$28	\$2,353 \$157
1.0%	Life Cycle Updates (cost, schedule, risks)	\$82	\$18	22.0%	\$100 \$100	3.1%	\$85	\$19	\$103	2028Q2 2028Q2	52.5%	\$129	\$28	\$157
1.0%	Contracting & Reprographics	\$82	\$18	22.0%	\$100	3.1%	\$85	\$19	\$103	2028Q2	52.5%	\$129	\$28	\$157
3.0%	Engineering During Construction	\$245	\$54	22.0%	\$299	3.1%	\$253	\$56	\$308	2029Q1	57.6%	\$398	\$88	\$486
2.0%	Planning During Construction	\$164	\$36	22.0%	\$200	3.1%	\$169	\$37	\$206	2029Q1	57.6%	\$267	\$59	\$325
1.0%	Project Operations	\$82	\$18	22.0%	\$100	3.1%	\$85	\$19	\$103	2028Q2	52.5%	\$129	\$28	\$157
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$818	\$180	22.0%	\$998	3.1%	\$843	\$186	\$1,029	2029Q1	57.6%	\$1,329	\$292	\$1,622
2.0%	Project Operation:	\$164	\$36	22.0%	\$200	3.1%	\$169	\$37	\$206	2029Q1	57.6%	\$267	\$59	\$325
2.5%	Project Management	\$205	\$45	22.0%	\$250	3.1%	\$211	\$46	\$258	2029Q1	57.6%	\$333	\$73	\$406
	CONTRACT COST TOTALS:	\$11,618	\$2,556		\$14,174		\$11,876	\$2,613	\$14,489			\$15,753	\$3,466	\$19,218

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST (\$K) C	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 2 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2029Q3	25.6%	\$7,603	\$1,673	\$9,276
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$7,603	\$1,673	\$9,276
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2029Q2	59.3%	\$245	\$54	\$299
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2029Q2	59.3%	\$97	\$21	\$118
15.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196	22.0% 22.0%	\$1,087	3.1%	\$919 <b>\$</b> 61	\$202	\$1,121	2029Q2 2029Q2	59.3% 59.3%	\$1,464 \$97	\$322 \$21	\$1,78 <i>6</i> \$118
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1% 3.1%	\$61	\$13 \$13	\$74 \$74	2029Q2 2029Q2	59.3% 59.3%	\$97 \$97	\$21 \$21	\$118
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74	2029Q2 2029Q2	59.3%	\$97	\$21	\$118
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2029Q4	63.0%	\$299	\$66	\$365
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2029Q4	63.0%	\$200	\$44	\$244
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2029Q2	59.3%	\$97	\$21	\$118
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2029Q4	63.0%	\$998	\$220	\$1,218
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2029Q4	63.0%	\$200	\$44	\$244
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2029Q4	63.0%	\$250	\$55	\$305
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$11,744	\$2,584	\$14,328

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description  B  O&M CONTRACT 3	COST (\$K) C	CNTG (\$K) <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <b>F</b>	ESC (%) <b>G</b>	COST (\$K) H	CNTG _(\$K) 	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ L	COST _(\$K)_ <i>M</i>	CNTG _(\$K) <i>N</i>	FULL _(\$K) 
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2030Q1	26.9%	\$6,894	\$1,517	\$8,410
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$6,894	\$1,517	\$8,410
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2029Q4	63.0%	\$224	\$49	\$273
1.0%	3	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2029Q4	63.0%	\$89	\$20	\$109
15.0% 1.0%	0 0	\$800 \$53	\$176 \$12	22.0% 22.0%	\$976 \$65	3.1% 3.1%	\$825 \$55	\$181 \$12	\$1,006 \$67	2029Q4 2029Q4	63.0% 63.0%	\$1,344 \$89	\$296 \$20	\$1,640 \$109
1.0%		\$53 \$53	\$12 \$12	22.0%	\$65	3.1%	\$55 \$55	\$12	\$67 \$67	2029Q4 2029Q4	63.0%	\$89	\$20 \$20	\$109
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2029Q4	63.0%	\$89	\$20	\$109
3.0%		\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2030Q3	68.6%	\$278	\$61	\$339
2.0%	6 Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2030Q3	68.6%	\$186	\$41	\$227
1.0%	6 Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2029Q4	63.0%	\$89	\$20	\$109
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2030Q3	68.6%	\$927	\$204	\$1,130
2.0%		\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2030Q3	68.6%	\$186	\$41	\$227
2.5%	6 Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2030Q3	68.6%	\$231	\$51	\$282
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$10,715	\$2,357	\$13,072

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)_ C	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ L	COST _(\$K) <i>M</i>	CNTG _(\$K) N	FULL _(\$K) 
09	O&M CONTRACT 4 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2031Q3	30.7%	\$7,911	\$1,740	\$9,651
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$7,911	\$1,740	\$9,651
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, 0	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2031Q2	74.5%	\$268	\$59	\$327
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2031Q2	74.5%	\$106	\$23	\$129
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 <b>\$</b> 61	\$202 \$13	\$1,121 \$74	2031Q2 2031Q2	74.5% 74.5%	\$1,603 \$106	\$353 \$23	\$1,956 \$129
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2031Q2 2031Q2	74.5%	\$106 \$106	\$23 \$23	\$129
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2031Q2 2031Q2	74.5%	\$106 \$106	\$23	\$129
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2032Q2	82.7%	\$335	\$74	\$409
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2032Q2	82.7%	\$224	\$49	\$273
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2031Q2	74.5%	\$106	\$23	\$129
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2032Q2	82.7%	\$1,119	\$246	\$1,365
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2032Q2	82.7%	\$224	\$49	\$273
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2032Q2	82.7%	\$281	\$62	\$342
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$12,495	\$2,749	\$15,244

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report;

0

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST (\$K) C	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ <i>L</i>	COST _(\$K) <i>M</i>	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 5 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2032Q2	32.7%	\$7,208	\$1,586	\$8,794
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	=	\$5,433	\$1,195	\$6,628			\$7,208	\$1,586	\$8,794
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2032Q2	82.7%	\$251	\$55	\$306
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2032Q2	82.7%	\$100	\$22	\$122
15.0%	Engineering & Design	\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2032Q2	82.7%	\$1,507	\$332	\$1,838
1.0%	Reviews, ATRs, IEPRs, VE	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2032Q2	82.7%	\$100	\$22	\$122
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks) Contracting & Reprographics	\$53 \$53	\$12 \$12	22.0% 22.0%	\$65 \$65	3.1% 3.1%	\$55 \$55	\$12 \$12	\$67 \$67	2032Q2 2032Q2	82.7% 82.7%	\$100 \$100	\$22 \$22	\$122 \$122
3.0%	Engineering During Construction	\$160	\$12 \$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2032Q2 2032Q4	87.1%	\$309	\$22 \$68	\$172
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2032Q4 2032Q4	87.1%	\$206	\$45	\$252
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2032Q2	82.7%	\$100	\$22	\$122
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2032Q4	87.1%	\$1,028	\$226	\$1,254
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2032Q4	87.1%	\$206	\$45	\$252
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2032Q4	87.1%	\$257	\$56	\$313
:	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$11,471	\$2,524	\$13,994

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description  B  O&M CONTRACT 6	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	CHANNELS & CANALS	\$22,203	\$4,885	22.0%	\$27,088	1.9%	\$22,615	\$4,975	\$27,590	2033Q2	35.3%	\$30,605	\$6,733	\$37,338
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$22,203	\$4,885	22.0%	\$27,088	-	\$22,615	\$4,975	\$27,590			\$30,605	\$6,733	\$37,338
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%	-, -	\$555	\$122	22.0%	\$677	3.1%	\$572	\$126	\$698	2032Q2	82.7%	\$1,045	\$230	\$1,275
1.0%	6 Planning & Environmental Compliance	\$222	\$49	22.0%	\$271	3.1%	\$229	\$50	\$279	2032Q2	82.7%	\$418	\$92	\$510
15.0%		\$3,330	\$733	22.0%	\$4,063	3.1%	\$3,433	\$755	\$4,189	2032Q2	82.7%	\$6,273	\$1,380	\$7,653
1.0%		\$222	\$49	22.0%	\$271	3.1%	\$229	\$50	\$279	2032Q2	82.7%	\$418	\$92	\$510
1.0%		\$222	\$49	22.0%	\$271	3.1%	\$229	\$50	\$279	2032Q2	82.7%	\$418	\$92	\$510
1.0%		\$222	\$49	22.0%	\$271	3.1%	\$229	\$50	\$279	2032Q2	82.7%	\$418	\$92	\$510
3.0%	0 0	\$666	\$147	22.0%	\$813	3.1%	\$687	\$151	\$838	2033Q4	96.2%	\$1,347	\$296	\$1,643
2.0% 1.0%	0 0	\$444 \$222	\$98 \$49	22.0% 22.0%	\$542 \$271	3.1% 3.1%	\$458 \$229	\$101 \$50	\$558 \$279	2033Q4 2032Q2	96.2% 82.7%	\$898 \$418	\$198 \$92	\$1,096 \$510
31	CONSTRUCTION MANAGEMENT													
10.0%	6 Construction Management	\$2,220	\$488	22.0%	\$2,708	3.1%	\$2,289	\$504	\$2,792	2033Q4	96.2%	\$4,490	\$988	\$5,478
2.0%	6 Project Operation:	\$444	\$98	22.0%	\$542	3.1%	\$458	\$101	\$558	2033Q4	96.2%	\$898	\$198	\$1,096
2.5%	6 Project Management	\$555	\$122	22.0%	\$677	3.1%	\$572	\$126	\$698	2033Q4	96.2%	\$1,122	\$247	\$1,369
	CONTRACT COST TOTALS:	\$31,527	\$6,936		\$38,463		\$32,228	\$7,090	\$39,318			\$48,768	\$10,729	\$59,498

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K) 	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 7 CHANNELS & CANALS	\$18,978	\$4,175	22.0%	\$23,153	1.9%	\$19,330	\$4,253	\$23,583	2034Q4	39.4%	\$26,950	\$5,929	\$32,879
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$18,978	\$4,175	22.0%	\$23,153	-	\$19,330	\$4,253	\$23,583			\$26,950	\$5,929	\$32,879
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, 0	\$474	\$104	22.0%	\$578	3.1%	\$489	\$108	\$596	2034Q2	100.9%	\$982	\$216	\$1,198
1.0%	Planning & Environmental Compliance	\$190	\$42	22.0%	\$232	3.1%	\$196	\$43	\$239	2034Q2	100.9%	\$393	\$87	\$480
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$2,847 \$190	\$626 \$42	22.0% 22.0%	\$3,473 \$232	3.1% 3.1%	\$2,935 \$196	\$646 \$43	\$3,581 \$239	2034Q2 2034Q2	100.9% 100.9%	\$5,896 \$393	\$1,297 \$87	\$7,193 \$480
1.0%	Life Cycle Updates (cost, schedule, risks)	\$190	\$42 \$42	22.0%	\$232	3.1%	\$196	\$43 \$43	\$239	2034Q2 2034Q2	100.9%	\$393	\$87 \$87	\$480
1.0%	Contracting & Reprographics	\$190	\$42	22.0%	\$232	3.1%	\$196	\$43	\$239	2034Q2	100.9%	\$393	\$87	\$480
3.0%	Engineering During Construction	\$569	\$125	22.0%	\$694	3.1%	\$587	\$129	\$716	2035Q1	108.4%	\$1,222	\$269	\$1,491
2.0%	Planning During Construction	\$380	\$84	22.0%	\$464	3.1%	\$392	\$86	\$478	2035Q1	108.4%	\$816	\$180	\$996
1.0%	Project Operations	\$190	\$42	22.0%	\$232	3.1%	\$196	\$43	\$239	2034Q2	100.9%	\$393	\$87	\$480
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$1,898	\$418	22.0%	\$2,316	3.1%	\$1,957	\$431	\$2,387	2035Q1	108.4%	\$4,078	\$897	\$4,975
2.0%	Project Operation:	\$380	\$84	22.0%	\$464	3.1%	\$392	\$86	\$478	2035Q1	108.4%	\$816	\$180	\$996
2.5%	Project Management	\$474	\$104	22.0%	\$578	3.1%	\$489	\$108	\$596	2035Q1	108.4%	\$1,018	\$224	\$1,242
	CONTRACT COST TOTALS:	\$26,950	\$5,929		\$32,879		\$27,549	\$6,061	\$33,610			\$43,746	\$9,624	\$53,370

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description  B  O&M CONTRACT 8	COST _(\$K)_ <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%) <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC _(%) <b>G</b>	COST (\$K) H	CNTG _(\$K) 	TOTAL _(\$K)_ <b>J</b>	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST _(\$K) <b>M</b>	CNTG _(\$K)_ N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2035Q3	41.5%	\$8,563	\$1,884	\$10,446
						_	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$8,563	\$1,884	\$10,446
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.59	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2035Q2	110.9%	\$324	\$71	\$395
1.09	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13 \$202	\$74	2035Q2	110.9%	\$128	\$28 \$426	\$157 \$2,364
15.09	0 0	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 \$61	\$202 \$13	\$1,121 \$74	2035Q2 2035Q2	110.9% 110.9%	\$1,937 \$128	\$426 \$28	\$2,364 \$157
1.09		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2035Q2 2035Q2	110.9%	\$128	\$28	\$157 \$157
1.09		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2035Q2	110.9%	\$128	\$28	\$157
3.09	% Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2036Q1	118.8%	\$402	\$88	\$490
2.09	0 0	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2036Q1	118.8%	\$268	\$59	\$328
1.09	% Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2035Q2	110.9%	\$128	\$28	\$157
31	CONSTRUCTION MANAGEMENT													
10.09		\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2036Q1	118.8%	\$1,340	\$295	\$1,635
2.09	% Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2036Q1	118.8%	\$268	\$59	\$328
2.59	% Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2036Q1	118.8%	\$336	\$74	\$410
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$14,080	\$3,098	\$17,177

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 9	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%) 	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2036Q2	43.6%	\$7,802	\$1,717	\$9,519
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$7,802	\$1,717	\$9,519
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2036Q1	118.8%	\$300	\$66	\$366
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2036Q1	118.8%	\$120	\$26	\$146
15.0%	Engineering & Design	\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2036Q1	118.8%	\$1,805	\$397	\$2,202
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2036Q1	118.8%	\$120	\$26	\$146
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2036Q1	118.8%	\$120	\$26	\$146
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2036Q1	118.8%	\$120	\$26	\$146
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2036Q4	127.1%	\$375	\$82	\$457
2.0%	0 0	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2036Q4	127.1%	\$251	\$55	\$306
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2036Q1	118.8%	\$120	\$26	\$146
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2036Q4	127.1%	\$1,248	\$275	\$1,522
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2036Q4	127.1%	\$251	\$55	\$306
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2036Q4	127.1%	\$311	\$69	\$380
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$12,940	\$2,847	\$15,787

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description	COST (\$K) <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ <i>L</i>	COST _(\$K) <i>M</i>	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 10 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2036Q4	45.0%	\$8,777	\$1,931	\$10,708
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	_	\$6,051	\$1,331	\$7,383			\$8,777	\$1,931	\$10,708
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2036Q3	124.3%	\$345	\$76	\$420
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2036Q3	124.3%	\$136	\$30	\$166
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2036Q3	124.3%	\$2,060	\$453	\$2,513
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2036Q3 2036Q3	124.3% 124.3%	\$136 \$136	\$30 \$30	\$166 \$166
1.0%		\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13 \$13	\$74 \$74	2036Q3 2036Q3	124.3%	\$136 \$136	\$30 \$30	\$166
3.0%		\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2037Q2	132.7%	\$427	\$94	\$521
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2037Q2	132.7%	\$286	\$63	\$348
1.0%	0 0	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2036Q3	124.3%	\$136	\$30	\$166
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2037Q2	132.7%	\$1,425	\$314	\$1,739
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2037Q2	132.7%	\$286	\$63	\$348
2.5%	5 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2037Q2	132.7%	\$358	\$79	\$436
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$14,645	\$3,222	\$17,867

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 11	COST (\$K) C	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <b>F</b>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$8,089	\$1,780	22.0%	\$9,869	1.9%	\$8,239	\$1,813	\$10,052	2038Q3	50.2%	\$12,372	\$2,722	\$15,094
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$8,089	\$1,780	22.0%	\$9,869	=	\$8,239	\$1,813	\$10,052			\$12,372	\$2,722	\$15,094
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%		\$202	\$44	22.0%	\$246	3.1%	\$208	\$46	\$254	2038Q2	144.8%	\$510	\$112	\$622
1.0%	6 Planning & Environmental Compliance	\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2038Q2	144.8%	\$204	\$45	\$249
15.0%	Engineering & Design	\$1,213	\$267	22.0%	\$1,480	3.1%	\$1,251	\$275	\$1,526	2038Q2	144.8%	\$3,062	\$674	\$3,736
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2038Q2	144.8%	\$204	\$45	\$249
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2038Q2	144.8%	\$204	\$45	\$249
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2038Q2	144.8%	\$204	\$45	\$249
3.0%	0 0	\$243	\$53	22.0%	\$296	3.1%	\$251	\$55	\$306	2039Q1	154.4%	\$637	\$140	\$778
2.0%	5 5	\$162	\$36	22.0%	\$198	3.1%	\$167	\$37	\$204	2039Q1	154.4%	\$425	\$93	\$518
1.0%	6 Project Operations	\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2038Q2	144.8%	\$204	\$45	\$249
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$809	\$178	22.0%	\$987	3.1%	\$834	\$183	\$1,018	2039Q1	154.4%	\$2,122	\$467	\$2,589
2.0%	6 Project Operation:	\$162	\$36	22.0%	\$198	3.1%	\$167	\$37	\$204	2039Q1	154.4%	\$425	\$93	\$518
2.5%	6 Project Management	\$202	\$44	22.0%	\$246	3.1%	\$208	\$46	\$254	2039Q1	154.4%	\$530	\$117	\$646
	CONTRACT COST TOTALS:	\$11,487	\$2,527		\$14,014		\$11,742	\$2,583	\$14,326			\$21,105	\$4,643	\$25,748

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)_ C	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL (\$K) O
09	O&M CONTRACT 12 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2039Q3	53.2%	\$9,268	\$2,039	\$11,307
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$9,268	\$2,039	\$11,307
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2039Q2	157.6%	\$396	\$87	\$483
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2039Q2	157.6%	\$157	\$34	\$191
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 <b>\$</b> 61	\$202 \$13	\$1,121 \$74	2039Q2 2039Q2	157.6% 157.6%	\$2,366 \$157	\$521 \$34	\$2,887 \$191
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2039Q2 2039Q2	157.6%	\$157 \$157	\$34	\$191
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2039Q2	157.6%	\$157	\$34	\$191
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2039Q4	164.3%	\$485	\$107	\$592
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2039Q4	164.3%	\$324	\$71	\$396
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2039Q2	157.6%	\$157	\$34	\$191
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2039Q4	164.3%	\$1,618	\$356	\$1,974
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2039Q4	164.3%	\$324	\$71	\$396
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2039Q4	164.3%	\$406	\$89	\$495
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$15,971	\$3,514	\$19,485

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 13	COST (\$K) <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) 	ESC (%) <b>G</b>	COST _(\$K) 	CNTG _(\$K) 	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED (%) L	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2040Q1	54.7%	\$8,403	\$1,849	\$10,252
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$8,403	\$1,849	\$10,252
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%		\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2039Q4	164.3%	\$362	\$80	\$442
1.0%	6 Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2039Q4	164.3%	\$144	\$32	\$176
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2039Q4	164.3%	\$2,180	\$480	\$2,659
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2039Q4	164.3%	\$144	\$32	\$176
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2039Q4	164.3%	\$144	\$32	\$176
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2039Q4	164.3%	\$144	\$32	\$176
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2040Q3	174.5%	\$453	\$100	\$552
2.0%	5 5	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2040Q3	174.5%	\$303	\$67	\$369
1.0%	6 Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2039Q4	164.3%	\$144	\$32	\$176
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2040Q3	174.5%	\$1,508	\$332	\$1,840
2.0%	6 Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2040Q3	174.5%	\$303	\$67	\$369
2.5%	6 Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2040Q3	174.5%	\$376	\$83	\$459
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$14,610	\$3,214	\$17,825

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-	TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 14	COST (\$K) <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) 	ESC _(%) <b>G</b>	COST _(\$K) 	CNTG _(\$K)/	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)L	COST _(\$K) <i>M</i>	CNTG (\$K) N	FULL <u>(\$K)</u> <b>0</b>	
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2041Q3	59.4%	\$9,643	\$2,121	\$11,764	
							\$0								
						_	φU 								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$9,643	\$2,121	\$11,764	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2041Q2	185.1%	\$438	\$96	\$534	
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2041Q2	185.1%	\$173	\$38	\$212	
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2041Q2	185.1%	\$2,619	\$576	\$3,195	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2041Q2	185.1%	\$173	\$38	\$212	
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2041Q2 2041Q2	185.1% 185.1%	\$173 \$173	\$38 \$38	\$212 \$212	
3.0%		\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2041Q2 2042Q2	199.9%	\$550	\$121	\$212 \$671	
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2042Q2	199.9%	\$368	\$81	\$449	
1.0%	0 0	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2041Q2	185.1%	\$173	\$38	\$212	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2042Q2	199.9%	\$1,836	\$404	\$2,240	
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2042Q2	199.9%	\$368	\$81	\$449	
2.5%	6 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2042Q2	199.9%	\$461	\$101	\$562	
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$17,150	\$3,773	\$20,922	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

8/24/2017

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bi ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 15	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)	ESC _(%)_ <b>G</b>	COST _(\$K) 	CNTG _(\$K)	TOTAL _(\$K)_ <i>J</i>	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ 	COST _(\$K)_ <i>M</i>	CNTG _(\$K)_ N	FULL _(\$K) <i>O</i>	
	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2042Q2	61.7%	\$8,787	\$1,933	\$10,720	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	=	\$5,433	\$1,195	\$6,628			\$8,787	\$1,933	\$10,720	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2042Q2	199.9%	\$411	\$90	\$502	
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2042Q2	199.9%	\$164	\$36	\$200	
15.0%	Engineering & Design	\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2042Q2	199.9%	\$2,473	\$544	\$3,018	
1.0%	Reviews, ATRs, IEPRs, VE	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2042Q2	199.9%	\$164	\$36	\$200	
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks) Contracting & Reprographics	\$53 \$53	\$12 \$12	22.0% 22.0%	\$65 \$65	3.1% 3.1%	\$55 \$55	\$12 \$12	\$67 \$67	2042Q2 2042Q2	199.9% 199.9%	\$164 \$164	\$36 \$36	\$200 \$200	
3.0%	Engineering During Construction	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$07 \$201	2042Q2 2042Q4	207.7%	\$508	\$36 \$112	\$200 \$619	
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$100	\$24	\$135	2042Q4 2042Q4	207.7%	\$339	\$75	\$414	
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2042Q2	199.9%	\$164	\$36	\$200	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2042Q4	207.7%	\$1,691	\$372	\$2,063	
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2042Q4	207.7%	\$339	\$75	\$414	
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2042Q4	207.7%	\$422	\$93	\$515	
=	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$15,790	\$3,474	\$19,263	

Filename: HNC TPCS - OM - Rev 1.xlsm

TPCS

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepared ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)_ C	CNTG _(\$K)	CNTG _(%)	TOTAL _(\$K) <b>F</b>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%) 	COST (\$K) M	CNTG _(\$K) N	FULL _(\$K)_ <b>O</b>	
	O&M CONTRACT 16 CHANNELS & CANALS	\$22,109	\$4,864	22.0%	\$26,973	1.9%	\$22,519	\$4,954	\$27,474	2043Q2	65.0%	\$37,149	\$8,173	\$45,321	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$22,109	\$4,864	22.0%	\$26,973		\$22,519	\$4,954	\$27,474			\$37,149	\$8,173	\$45,321	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$553	\$122	22.0%	\$675	3.1%	\$570	\$125	\$696	2042Q2	199.9%	\$1,710	\$376	\$2,086	
1.0% 15.0%	Planning & Environmental Compliance Engineering & Design	\$221 \$3,316	\$49 \$730	22.0% 22.0%	\$270 \$4,046	3.1% 3.1%	\$228 \$3,419	\$50 \$752	\$278 \$4,171	2042Q2 2042Q2	199.9% 199.9%	\$683 \$10,252	\$150 \$2,255	\$834 \$12,508	
13.0%	Reviews, ATRs, IEPRs, VE	\$3,316 \$221	\$730 \$49	22.0%	\$4,046 \$270	3.1%	\$228	\$752 \$50	\$4,171 \$278	2042Q2 2042Q2	199.9%	\$10,252 \$683	\$2,255 \$150	\$12,500	
1.0%	Life Cycle Updates (cost, schedule, risks)	\$221	\$49	22.0%	\$270	3.1%	\$228	\$50	\$278	2042Q2	199.9%	\$683	\$150	\$834	
1.0%	Contracting & Reprographics	\$221	\$49	22.0%	\$270	3.1%	\$228	\$50	\$278	2042Q2	199.9%	\$683	\$150	\$834	
3.0%	Engineering During Construction	\$663	\$146	22.0%	\$809	3.1%	\$684	\$150	\$834	2043Q4	223.7%	\$2,212	\$487	\$2,699	
2.0%	Planning During Construction	\$442	\$97	22.0%	\$539	3.1%	\$456	\$100	\$556	2043Q4	223.7%	\$1,475	\$324	\$1,799	
1.0%	Project Operations	\$221	\$49	22.0%	\$270	3.1%	\$228	\$50	\$278	2042Q2	199.9%	\$683	\$150	\$834	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$2,211	\$486	22.0%	\$2,697	3.1%	\$2,280	\$501	\$2,781	2043Q4	223.7%	\$7,378	\$1,623	\$9,001	
2.0%	Project Operation:	\$442	\$97	22.0%	\$539	3.1%	\$456	\$100	\$556	2043Q4	223.7%	\$1,475	\$324	\$1,799	
2.5%	Project Management	\$553	\$122	22.0%	\$675	3.1%	\$570	\$125	\$696	2043Q4	223.7%	\$1,845	\$406	\$2,251	
=	CONTRACT COST TOTALS:	\$31,394	\$6,907		\$38,301		\$32,092	\$7,060	\$39,153			\$66,913	\$14,721	\$81,633	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16	Program Year (Budget EC): 2018 Effective Price Level Date: 1 OCT 17				FULLY FUNDED PROJECT ESTIMATE					
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 17	COST (\$K) C	CNTG _(\$K)	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG _(\$K) N	FULL _(\$K)_ <b>O</b>	
09	CHANNELS & CANALS	\$18,894	\$4,157	22.0%	\$23,051	1.9%	\$19,245	\$4,234	\$23,479	2044Q4	69.9%	\$32,706	\$7,195	\$39,902	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$18,894	\$4,157	22.0%	\$23,051	-	\$19,245	\$4,234	\$23,479			\$32,706	\$7,195	\$39,902	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$472	\$104	22.0%	\$576	3.1%	\$487	\$107	\$594	2044Q2	231.9%	\$1,615	\$355	\$1,970	
1.0%	Planning & Environmental Compliance	\$189	\$42	22.0%	\$231	3.1%	\$195	\$43	\$238	2044Q2	231.9%	\$647	\$142	\$789	
15.0%	3 3 3	\$2,834	\$623	22.0%	\$3,457	3.1%	\$2,922	\$643	\$3,565	2044Q2	231.9%	\$9,697	\$2,133	\$11,830	
1.0%	Reviews, ATRs, IEPRs, VE	\$189	\$42	22.0%	\$231	3.1%	\$195	\$43	\$238	2044Q2	231.9%	\$647	\$142	\$789	
1.0%	Life Cycle Updates (cost, schedule, risks)	\$189	\$42	22.0%	\$231	3.1%	\$195	\$43	\$238	2044Q2	231.9%	\$647	\$142	\$789	
1.0% 3.0%	Contracting & Reprographics Engineering During Construction	\$189 \$567	\$42 \$125	22.0% 22.0%	\$231 \$692	3.1% 3.1%	\$195 \$585	\$43 \$129	\$238 \$713	2044Q2 2045Q1	231.9% 244.8%	\$647 \$2,016	\$142 \$443	\$789 \$2,459	
2.0%	Planning During Construction	\$378	\$83	22.0%	\$461	3.1%	\$390	\$129 \$86	\$475	2045Q1 2045Q1	244.8%	\$2,016 \$1,344	\$443 \$296	\$2,439 \$1,639	
1.0%	Project Operations	\$189	\$42	22.0%	\$231	3.1%	\$195	\$43	\$238	2043Q1 2044Q2	231.9%	\$647	\$142	\$1,03 <del>9</del> \$789	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$1,889	\$416	22.0%	\$2,305	3.1%	\$1,948	\$428	\$2,376	2045Q1	244.8%	\$6,715	\$1,477	\$8,193	
2.0%	Project Operation:	\$378	\$83	22.0%	\$461	3.1%	\$390	\$86	\$475	2045Q1	244.8%	\$1,344	\$296	\$1,639	
2.5%	Project Management	\$472	\$104	22.0%	\$576	3.1%	\$487	\$107	\$594	2045Q1	244.8%	\$1,678	\$369	\$2,047	
	CONTRACT COST TOTALS:	\$26,829	\$5,902		\$32,731		\$27,426	\$6,034	\$33,459			\$60,348	\$13,277	\$73,625	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 18	COST (\$K) C	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)	ESC (%) <b>G</b>	COST (\$K) <i>H</i>	CNTG (\$K) /	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST _(\$K)_ <i>M</i>	CNTG _(\$K)_ N	FULL _(\$K) <i>O</i>	
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2045Q3	72.5%	\$10,438	\$2,296	\$12,734	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$10,438	\$2,296	\$12,734	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	•	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2045Q2	249.1%	\$536	\$118	\$654	
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2045Q2	249.1%	\$212	\$47	\$259	
15.0%	Engineering & Design	\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2045Q2	249.1%	\$3,207	\$706	\$3,913	
1.0%	Reviews, ATRs, IEPRs, VE	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2045Q2	249.1%	\$212	\$47	\$259	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2045Q2	249.1%	\$212	\$47	\$259	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2045Q2	249.1%	\$212	\$47	\$259	
3.0%	3	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2046Q1	262.7%	\$666	\$146	\$812	
2.0%	0 0	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2046Q1	262.7%	\$445	\$98	\$543	
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2045Q2	249.1%	\$212	\$47	\$259	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2046Q1	262.7%	\$2,222	\$489	\$2,710	
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2046Q1	262.7%	\$445	\$98	\$543	
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2046Q1	262.7%	\$557	\$123	\$680	
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$19,578	\$4,307	\$23,885	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 19	COST _(\$K)	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K) 	CNTG _(\$K) 	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST _(\$K)_ <i>M</i>	CNTG _(\$K)_ <i>N</i>	FULL _(\$K) 	
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2046Q2	75.1%	\$9,511	\$2,092	\$11,603	
						_	\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507		\$5,433	\$1,195	\$6,628			\$9,511	\$2,092	\$11,603	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	, ,	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2046Q1	262.7%	\$497	\$109	\$607	
1.0%	3	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12 \$181	\$67	2046Q1	262.7% 262.7%	\$198	\$44 \$658	\$242 \$3,650	
15.0% 1.0%	0 0	\$800 \$53	\$176 \$12	22.0% 22.0%	\$976 \$65	3.1% 3.1%	\$825 \$55	\$181	\$1,006 \$67	2046Q1 2046Q1	262.7% 262.7%	\$2,992 \$198	\$658 \$44	\$3,650	
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2046Q1	262.7%	\$198	\$44	\$242	
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2046Q1	262.7%	\$198	\$44	\$242	
3.0%		\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2046Q4	276.8%	\$622	\$137	\$758	
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2046Q4	276.8%	\$416	\$91	\$507	
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2046Q1	262.7%	\$198	\$44	\$242	
31	CONSTRUCTION MANAGEMENT														
10.0%		\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2046Q4	276.8%	\$2,071	\$456	\$2,526	
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2046Q4	276.8%	\$416	\$91	\$507	
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2046Q4	276.8%	\$517	\$114	\$630	
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$18,032	\$3,967	\$21,999	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-	TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 20	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K) 	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL (\$K) <b>O</b>	
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2046Q4	76.8%	\$10,700	\$2,354	\$13,053	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$10,700	\$2,354	\$13,053	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2046Q3	272.1%	\$572	\$126	\$697	
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2046Q3	272.1%	\$226	\$50	\$276	
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2046Q3	272.1%	\$3,418	\$752	\$4,170	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2046Q3	272.1%	\$226	\$50	\$276	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2046Q3	272.1%	\$226	\$50	\$276	
1.0%		\$59	\$13	22.0%	\$72 \$217	3.1%	\$61 \$484	\$13 \$40	\$74	2046Q3	272.1%	\$226	\$50 \$156	\$276 \$865	
3.0% 2.0%	5 5 5	\$178 \$119	\$39 \$26	22.0% 22.0%	\$217 \$145	3.1% 3.1%	\$184 \$123	\$40 \$27	\$224 \$150	2047Q2 2047Q2	286.4% 286.4%	\$709 \$474	\$104	\$865 \$578	
1.0%	0 0	\$59	\$26 \$13	22.0%	\$72	3.1%	\$61	\$27 \$13	\$74	2047Q2 2046Q3	272.1%	\$226	\$50	\$276	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2047Q2	286.4%	\$2,366	\$521	\$2,887	
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2047Q2	286.4%	\$474	\$104	\$578	
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2047Q2	286.4%	\$594	\$131	\$724	
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$20,438	\$4,496	\$24,934	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 21	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>	
09	CHANNELS & CANALS	\$8,089	\$1,780	22.0%	\$9,869	1.9%	\$8,239	\$1,813	\$10,052	2048Q3	83.0%	\$15,081	\$3,318	\$18,399	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$8,089	\$1,780	22.0%	\$9,869	-	\$8,239	\$1,813	\$10,052			\$15,081	\$3,318	\$18,399	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING. ENGINEERING & DESIGN														
2.5%	-, -	\$202	\$44	22.0%	\$246	3.1%	\$208	\$46	\$254	2048Q2	306.5%	\$847	\$186	\$1,033	
1.0%	6 Planning & Environmental Compliance	\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2048Q2	306.5%	\$339	\$75	\$414	
15.0%		\$1,213	\$267	22.0%	\$1,480	3.1%	\$1,251	\$275	\$1,526	2048Q2	306.5%	\$5,083	\$1,118	\$6,202	
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2048Q2	306.5%	\$339	\$75	\$414	
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2048Q2	306.5%	\$339	\$75	\$414	
1.0%		\$81	\$18	22.0%	\$99	3.1%	\$84	\$18	\$102	2048Q2	306.5%	\$339	\$75	\$414	
3.0%	0 0	\$243	\$53	22.0%	\$296	3.1%	\$251	\$55	\$306	2049Q1	322.3%	\$1,058	\$233	\$1,291	
2.0% 1.0%	0 0	\$162 \$81	\$36 \$18	22.0% 22.0%	\$198 \$99	3.1% 3.1%	\$167 \$84	\$37 \$18	\$204 \$102	2049Q1 2048Q2	322.3% 306.5%	\$705 \$339	\$155 \$75	\$861 \$414	
1.076	. Tojost operations	ΨΟΙ	Ψίο	22.070	Ψ33	5.170	ΨΟΨ	Ψισ	ΨΙΟΣ	204002	000.070	φοσο	Ψ, 3	<b>4414</b>	
31	CONSTRUCTION MANAGEMENT														
10.0%	6 Construction Management	\$809	\$178	22.0%	\$987	3.1%	\$834	\$183	\$1,018	2049Q1	322.3%	\$3,523	\$775	\$4,297	
2.0%	6 Project Operation:	\$162	\$36	22.0%	\$198	3.1%	\$167	\$37	\$204	2049Q1	322.3%	\$705	\$155	\$861	
2.5%	6 Project Management	\$202	\$44	22.0%	\$246	3.1%	\$208	\$46	\$254	2049Q1	322.3%	\$880	\$194	\$1,073	
	CONTRACT COST TOTALS:	\$11,487	\$2,527		\$14,014		\$11,742	\$2,583	\$14,326			\$29,579	\$6,507	\$36,087	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K) 	CNTG _(\$K)_ <b>D</b>	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K) 	Mid-Point <u>Date</u> P	INFLATED _(%) _L	COST _(\$K) <b>M</b>	CNTG (\$K) N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 22 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2049Q3	86.7%	\$11,298	\$2,486	\$13,784
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$11,298	\$2,486	\$13,784
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2049Q2	327.6%	\$657	\$145	\$801
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2049Q2	327.6%	\$260	\$57	\$317
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 <b>\$</b> 61	\$202 \$13	\$1,121 \$74	2049Q2 2049Q2	327.6% 327.6%	\$3,928 \$260	\$864 \$57	\$4,792 \$317
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2049Q2 2049Q2	327.6%	\$260 \$260	\$57 \$57	\$317 \$317
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2049Q2 2049Q2	327.6%	\$260	\$57 \$57	\$317
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2049Q4	338.7%	\$805	\$177	\$982
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2049Q4	338.7%	\$538	\$118	\$657
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2049Q2	327.6%	\$260	\$57	\$317
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2049Q4	338.7%	\$2,687	\$591	\$3,278
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2049Q4	338.7%	\$538	\$118	\$657
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2049Q4	338.7%	\$674	\$148	\$822
;	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$22,426	\$4,934	\$27,360

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST (\$K) C	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> P	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	O&M CONTRACT 23 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2050Q1	88.5%	\$10,243	\$2,254	\$12,497
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$10,243	\$2,254	\$12,497
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%		\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2049Q4	338.7%	\$602	\$132	\$734
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2049Q4	338.7%	\$240	\$53	\$292
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2049Q4	338.7%	\$3,619	\$796	\$4,415
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2049Q4	338.7%	\$240	\$53	\$292
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2049Q4	338.7%	\$240	\$53	\$292
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2049Q4	338.7%	\$240	\$53	\$292
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2050Q3	355.7%	\$752	\$165	\$917
2.0% 1.0%	0 0	\$107 \$53	\$24 \$12	22.0% 22.0%	\$131 \$65	3.1% 3.1%	\$110 \$55	\$24 \$12	\$135 \$67	2050Q3 2049Q4	355.7% 338.7%	\$503 \$240	\$111 \$53	\$613 \$292
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2050Q3	355.7%	\$2,504	\$551	\$3,055
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2050Q3	355.7%	\$503	\$111	\$613
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2050Q3	355.7%	\$625	\$137	\$762
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$20,548	\$4,521	\$25,069

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) <b>O</b>
	O&M CONTRACT 24 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2051Q3	94.2%	\$11,755	\$2,586	\$14,341
						_	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$11,755	\$2,586	\$14,341
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2051Q2	373.2%	\$727	\$160	\$887
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2051Q2	373.2%	\$288	\$63	\$351
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 <b>\$</b> 61	\$202 \$13	\$1,121 \$74	2051Q2 2051Q2	373.2% 373.2%	\$4,347 \$288	\$956 \$63	\$5,304 \$351
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74	2051Q2 2051Q2	373.2%	\$288	\$63	\$351
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2051Q2	373.2%	\$288	\$63	\$351
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2052Q2	397.8%	\$914	\$201	\$1,115
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2052Q2	397.8%	\$611	\$134	\$745
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2051Q2	373.2%	\$288	\$63	\$351
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2052Q2	397.8%	\$3,049	\$671	\$3,720
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2052Q2	397.8%	\$611	\$134	\$745
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2052Q2	397.8%	\$765	\$168	\$933
•	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$24,217	\$5,328	\$29,545

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report;

0

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%) _L	COST _(\$K) <i>M</i>	CNTG _(\$K) N	FULL (\$K) <b>O</b>
	O&M CONTRACT 25 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2052Q2	97.1%	\$10,711	\$2,356	\$13,067
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507		\$5,433	\$1,195	\$6,628			\$10,711	\$2,356	\$13,067
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2052Q2	397.8%	\$683	\$150	\$833
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2052Q2	397.8%	\$272	\$60	\$332
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$800 \$53	\$176 \$12	22.0% 22.0%	\$976 \$65	3.1% 3.1%	\$825 \$55	\$181 \$12	\$1,006 \$67	2052Q2 2052Q2	397.8% 397.8%	\$4,106 \$272	\$903 \$60	\$5,010 \$332
1.0%	Life Cycle Updates (cost, schedule, risks)	\$53 \$53	\$12 \$12	22.0%	\$65	3.1%	\$55 \$55	\$12	\$67	2052Q2 2052Q2	397.8%	\$272 \$272	\$60 \$60	\$332
1.0%	Contracting & Reprographics	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2052Q2	397.8%	\$272	\$60	\$332
3.0%	Engineering During Construction	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2052Q4	410.8%	\$843	\$185	\$1,028
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2052Q4	410.8%	\$563	\$124	\$687
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2052Q2	397.8%	\$272	\$60	\$332
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2052Q4	410.8%	\$2,807	\$618	\$3,424
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2052Q4	410.8%	\$563	\$124	\$687
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2052Q4	410.8%	\$700	\$154	\$855
•	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$22,337	\$4,914	\$27,251

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%) 	COST (\$K) M	CNTG _(\$K) N	FULL _(\$K) 
	O&M CONTRACT 26 CHANNELS & CANALS	\$23,210	\$5,106	22.0%	\$28,316	1.9%	\$23,641	\$5,201	\$28,842	2053Q2	101.1%	\$47,539	\$10,459	\$57,998
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$23,210	\$5,106	22.0%	\$28,316	-	\$23,641	\$5,201	\$28,842			\$47,539	\$10,459	\$57,998
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$580	\$128	22.0%	\$708	3.1%	\$598	\$132	\$730	2052Q2	397.8%	\$2,977	\$655	\$3,632
1.0%	Planning & Environmental Compliance	\$232	\$51	22.0%	\$283	3.1%	\$239	\$53	\$292	2052Q2	397.8%	\$1,191	\$262	\$1,453
15.0%	Engineering & Design	\$3,482	\$766	22.0%	\$4,248	3.1%	\$3,590	\$790	\$4,380	2052Q2	397.8%	\$17,872	\$3,932	\$21,804
1.0%	Reviews, ATRs, IEPRs, VE	\$232	\$51	22.0%	\$283	3.1%	\$239	\$53	\$292	2052Q2	397.8%	\$1,191	\$262	\$1,453
1.0%	Life Cycle Updates (cost, schedule, risks)	\$232	\$51	22.0%	\$283	3.1%	\$239	\$53	\$292	2052Q2	397.8%	\$1,191	\$262	\$1,453
1.0%	Contracting & Reprographics	\$232	\$51	22.0%	\$283	3.1%	\$239	\$53	\$292	2052Q2	397.8%	\$1,191	\$262	\$1,453
3.0% 2.0%	Engineering During Construction Planning During Construction	\$696 \$464	\$153 \$102	22.0% 22.0%	\$849 \$566	3.1% 3.1%	\$718 \$478	\$158 \$105	\$875 \$584	2053Q4 2053Q4	437.4% 437.4%	\$3,856 \$2,571	\$848 \$566	\$4,704
1.0%	Project Operations	\$232	\$102 \$51	22.0%	\$283	3.1%	\$239	\$53	\$292	2053Q4 2052Q2	397.8%	\$1,191	\$262	\$3,136 \$1,453
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$2,321	\$511	22.0%	\$2,832	3.1%	\$2,393	\$526	\$2,919	2053Q4	437.4%	\$12,859	\$2,829	\$15,687
2.0%	Project Operation:	\$464	\$102	22.0%	\$566	3.1%	\$478	\$105	\$584	2053Q4	437.4%	\$2,571	\$566	\$3,136
2.5%	Project Management	\$580	\$128	22.0%	\$708	3.1%	\$598	\$132	\$730	2053Q4	437.4%	\$3,213	\$707	\$3,920
:	CONTRACT COST TOTALS:	\$32,957	\$7,251		\$40,208		\$33,690	\$7,412	\$41,102			\$99,411	\$21,871	\$121,282

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (I	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ective Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 27	COST _(\$K)	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST (\$K) M	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	CHANNELS & CANALS	\$19,187	\$4,221	22.0%	\$23,408	1.9%	\$19,543	\$4,299	\$23,843	2054Q4	107.2%	\$40,487	\$8,907	\$49,394
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$19,187	\$4,221	22.0%	\$23,408	-	\$19,543	\$4,299	\$23,843			\$40,487	\$8,907	\$49,394
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	6 Project Management	\$480	\$106	22.0%	\$586	3.1%	\$495	\$109	\$604	2054Q2	451.0%	\$2,727	\$600	\$3,326
1.0%	6 Planning & Environmental Compliance	\$192	\$42	22.0%	\$234	3.1%	\$198	\$44	\$242	2054Q2	451.0%	\$1,091	\$240	\$1,331
15.0%	6 Engineering & Design	\$2,878	\$633	22.0%	\$3,511	3.1%	\$2,967	\$653	\$3,620	2054Q2	451.0%	\$16,348	\$3,597	\$19,945
1.0%		\$192	\$42	22.0%	\$234	3.1%	\$198	\$44	\$242	2054Q2	451.0%	\$1,091	\$240	\$1,331
1.0%		\$192	\$42	22.0%	\$234	3.1%	\$198	\$44	\$242	2054Q2	451.0%	\$1,091	\$240	\$1,331
1.0%		\$192	\$42	22.0%	\$234	3.1%	\$198	\$44	\$242	2054Q2	451.0%	\$1,091	\$240	\$1,331
3.0%	0 0	\$576	\$127	22.0%	\$703	3.1%	\$594	\$131	\$725	2055Q1	472.5%	\$3,400	\$748	\$4,147
2.0% 1.0%	0 0	\$384 \$192	\$84 \$42	22.0% 22.0%	\$468 \$234	3.1% 3.1%	\$396 \$198	\$87 \$44	\$483 \$242	2055Q1 2054Q2	472.5% 451.0%	\$2,266 \$1.091	\$499 \$240	\$2,765 \$1,331
		***-	*		<b>V</b>	,	****	• • • •	*			¥ 1,122 1		**,***
31	CONSTRUCTION MANAGEMENT													
10.0%	ū	\$1,919	\$422	22.0%	\$2,341	3.1%	\$1,978	\$435	\$2,414	2055Q1	472.5%	\$11,326	\$2,492	\$13,818
2.0%	, .	\$384	\$84	22.0%	\$468	3.1%	\$396	\$87	\$483	2055Q1	472.5%	\$2,266	\$499	\$2,765
2.5%	6 Project Management	\$480	\$106	22.0%	\$586	3.1%	\$495	\$109	\$604	2055Q1	472.5%	\$2,833	\$623	\$3,456
	CONTRACT COST TOTALS:	\$27,248	\$5,995		\$33,243		\$27,854	\$6,128	\$33,982			\$87,107	\$19,163	\$106,270

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 28	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2055Q3	110.3%	\$12,724	\$2,799	\$15,523
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$12,724	\$2,799	\$15,523
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2055Q2	479.6%	\$890	\$196	\$1,086
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2055Q2	479.6%	\$353	\$78	\$430
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2055Q2	479.6%	\$5,325	\$1,171	\$6,496
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2055Q2	479.6%	\$353	\$78	\$430
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2055Q2	479.6%	\$353	\$78	\$430
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2055Q2	479.6%	\$353	\$78	\$430
3.0%	0 0	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2056Q1	502.2%	\$1,105	\$243	\$1,348
2.0% 1.0%	0 0	\$119 \$59	\$26 \$13	22.0% 22.0%	\$145 \$72	3.1% 3.1%	\$123 \$61	\$27 \$13	\$150 \$74	2056Q1 2055Q2	502.2% 479.6%	\$739 \$353	\$163 \$78	\$901 \$430
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2056Q1	502.2%	\$3,688	\$811	\$4,499
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2056Q1	502.2%	\$739	\$163	\$901
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2056Q1	502.2%	\$925	\$204	\$1,129
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$27,898	\$6,137	\$34,035

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 29	COST _(\$K)_ C	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2056Q2	113.4%	\$11,594	\$2,551	\$14,145
							\$0							
						_								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507		\$5,433	\$1,195	\$6,628			\$11,594	\$2,551	\$14,145
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2056Q1	502.2%	\$826	\$182	\$1,007
1.0%	3	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2056Q1	502.2%	\$329	\$72	\$401
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2056Q1	502.2%	\$4,967	\$1,093	\$6,060
1.0%	· · · · · · · · · · · · · · · · · · ·	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2056Q1	502.2%	\$329	\$72	\$401
1.0%		\$53 \$53	\$12 \$12	22.0% 22.0%	\$65 \$65	3.1% 3.1%	\$55 \$55	\$12	\$67	2056Q1 2056Q1	502.2% 502.2%	\$329 \$329	\$72 \$72	\$401
1.0% 3.0%	0 . 0 .	\$53 \$160	\$12 \$35	22.0%	\$65 \$195	3.1%	ანი \$165	\$12 \$36	\$67 \$201	2056Q1 2056Q4	502.2% 525.6%	\$329 \$1,032	\$72 \$227	\$401 \$1,259
2.0%		\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2056Q4 2056Q4	525.6%	\$690	\$152	\$842
1.0%	0 0	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2056Q1	502.2%	\$329	\$72	\$401
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2056Q4	525.6%	\$3,438	\$756	\$4,194
2.0%		\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2056Q4	525.6%	\$690	\$152	\$842
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2056Q4	525.6%	\$858	\$189	\$1,047
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$25,740	\$5,663	\$31,403

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 30	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST (\$K) M	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2056Q4	115.5%	\$13,043	\$2,869	\$15,912
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	_	\$6,051	\$1,331	\$7,383			\$13,043	\$2,869	\$15,912
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2056Q3	517.7%	\$949	\$209	\$1,158
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2056Q3	517.7%	\$376	\$83	\$458
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2056Q3	517.7%	\$5,674	\$1,248	\$6,923
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2056Q3 2056Q3	517.7% 517.7%	\$376 \$376	\$83 \$83	\$458 \$458
1.0%		\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2056Q3 2056Q3	517.7%	\$376 \$376	\$83	\$456
3.0%		\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2057Q2	541.5%	\$1,177	\$259	\$1,436
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2057Q2	541.5%	\$787	\$173	\$960
1.0%	0 0	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2056Q3	517.7%	\$376	\$83	\$458
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2057Q2	541.5%	\$3,928	\$864	\$4,793
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2057Q2	541.5%	\$787	\$173	\$960
2.5%	6 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2057Q2	541.5%	\$985	\$217	\$1,202
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$29,210	\$6,426	\$35,636

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

8/24/2017

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (I	FULLY FUNDED)	
			nate Prepared ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 31	COST (\$K) C	CNTG (\$K) <b>D</b>	CNTG _(%) 	TOTAL _(\$K)	ESC (%) <b>G</b>	COST (\$K) <i>H</i>	CNTG (\$K) /	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST (\$K) M	CNTG _(\$K)_ N	FULL _(\$K) 
	CHANNELS & CANALS	\$8,567	\$1,885	22.0%	\$10,452	1.9%	\$8,726	\$1,920	\$10,646	2058Q3	123.1%	\$19,471	\$4,284	\$23,754
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$8,567	\$1,885	22.0%	\$10,452	=	\$8,726	\$1,920	\$10,646			\$19,471	\$4,284	\$23,754
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%	Project Management	\$214	\$47	22.0%	\$261	3.1%	\$221	\$49	\$269	2058Q2	574.8%	\$1,489	\$328	\$1,816
1.0%	Planning & Environmental Compliance	\$86	\$19	22.0%	\$105	3.1%	\$89	\$20	\$108	2058Q2	574.8%	\$598	\$132	\$730
15.0%	Engineering & Design	\$1,285	\$283	22.0%	\$1,568	3.1%	\$1,325	\$291	\$1,616	2058Q2	574.8%	\$8,940	\$1,967	\$10,907
1.0%	Reviews, ATRs, IEPRs, VE	\$86	\$19	22.0%	\$105	3.1%	\$89	\$20	\$108	2058Q2	574.8%	\$598	\$132	\$730
1.0%	Life Cycle Updates (cost, schedule, risks)	\$86	\$19	22.0%	\$105	3.1%	\$89	\$20	\$108	2058Q2	574.8%	\$598	\$132	\$730
1.0%		\$86	\$19 \$57	22.0%	\$105	3.1% 3.1%	\$89	\$20	\$108	2058Q2	574.8% 601.1%	\$598	\$132	\$730 \$2,265
3.0% 2.0%	Engineering During Construction Planning During Construction	\$257 \$171	\$57 \$38	22.0% 22.0%	\$314 \$209	3.1%	\$265 \$176	\$58 \$39	\$323 \$215	2059Q1 2059Q1	601.1%	\$1,858 \$1,236	\$409 \$272	\$2,267 \$1,508
1.0%	5 5	\$86	\$19	22.0%	\$105	3.1%	\$89	\$20	\$108	2058Q2	574.8%	\$598	\$132	\$730
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$857	\$189	22.0%	\$1,046	3.1%	\$884	\$194	\$1,078	2059Q1	601.1%	\$6,195	\$1,363	\$7,558
2.0%	Project Operation:	\$171	\$38	22.0%	\$209	3.1%	\$176	\$39	\$215	2059Q1	601.1%	\$1,236	\$272	\$1,508
2.5%	Project Management	\$214	\$47	22.0%	\$261	3.1%	\$221	\$49	\$269	2059Q1	601.1%	\$1,547	\$340	\$1,887
;	CONTRACT COST TOTALS:	\$12,166	\$2,677		\$14,843		\$12,437	\$2,736	\$15,173			\$44,963	\$9,892	\$54,855

Filename: HNC TPCS - OM - Rev 1.xlsm

TPCS

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report;

0

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (I	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 32	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST (\$K) M	CNTG _(\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2059Q3	127.6%	\$13,772	\$3,030	\$16,802
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$13,772	\$3,030	\$16,802
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2059Q2	609.9%	\$1,091	\$240	\$1,330
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2059Q2	609.9%	\$432	\$95	\$527
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2059Q2	609.9%	\$6,521	\$1,435	\$7,956
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2059Q2	609.9%	\$432	\$95	\$527
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2059Q2	609.9%	\$432	\$95	\$527
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2059Q2	609.9%	\$432	\$95	\$527
3.0%	0 0	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2059Q4	628.4%	\$1,337	\$294	\$1,631
2.0% 1.0%	0 0	\$119 \$59	\$26 \$13	22.0% 22.0%	\$145 \$72	3.1% 3.1%	\$123 \$61	\$27 \$13	\$150 \$74	2059Q4 2059Q2	628.4% 609.9%	\$894 \$432	\$197 \$95	\$1,090 \$527
1.070	, Tojou operations	ΨΟΘ	ΨΙΟ	22.070	ΨΙΖ	5.176	ΨΟΙ	Ψισ	Ψ1+	200302	009.970	ψ <del>-1</del> 32	<b>\$75</b>	<b>\$321</b>
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2059Q4	628.4%	\$4,461	\$981	\$5,442
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2059Q4	628.4%	\$894	\$197	\$1,090
2.5%	6 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2059Q4	628.4%	\$1,119	\$246	\$1,365
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$32,247	\$7,094	\$39,341

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 33	COST (\$K) C	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%) <i>L</i>	COST (\$K) M	CNTG _(\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2060Q1	129.8%	\$12,487	\$2,747	\$15,234
							•							
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$12,487	\$2,747	\$15,234
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%		\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2059Q4	628.4%	\$999	\$220	\$1,218
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2059Q4	628.4%	\$398	\$88	\$486
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2059Q4	628.4%	\$6,008	\$1,322	\$7,329
1.0%	· · · · · · · · · · · · · · · · · · ·	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2059Q4	628.4%	\$398	\$88	\$486
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2059Q4	628.4%	\$398	\$88	\$486
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2059Q4	628.4%	\$398	\$88	\$486
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2060Q3	656.5%	\$1,248	\$275	\$1,523
2.0% 1.0%	0 0	\$107 \$53	\$24 \$12	22.0% 22.0%	\$131 \$65	3.1% 3.1%	\$110 \$55	\$24 \$12	\$135 \$67	2060Q3 2059Q4	656.5% 628.4%	\$835 \$398	\$184 \$88	\$1,018 \$486
31	CONSTRUCTION MANAGEMENT													
10.0%		\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2060Q3	656.5%	\$4,157	\$915	\$5,072
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2060Q3	656.5%	\$835	\$184	\$1,018
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2060Q3	656.5%	\$1,037	\$228	\$1,266
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$29,595	\$6,511	\$36,106

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 34	COST (\$K) C	CNTG _(\$K) 	CNTG _(%) 	TOTAL _(\$K) <b>F</b>	ESC (%) <b>G</b>	COST (\$K) H	CNTG _(\$K) 	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ L	COST _(\$K)_ <i>M</i>	CNTG _(\$K)_ <b>N</b>	FULL _(\$K) 
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2061Q3	136.8%	\$14,329	\$3,152	\$17,481
						_	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$14,329	\$3,152	\$17,481
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, 0	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2061Q2	685.7%	\$1,207	\$266	\$1,472
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2061Q2	685.7%	\$478	\$105	\$583
15.0% 1.0%	0 0	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 \$61	\$202 \$13	\$1,121 \$74	2061Q2 2061Q2	685.7% 685.7%	\$7,217 \$478	\$1,588 \$105	\$8,805 \$583
1.0%		\$59 \$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2061Q2 2061Q2	685.7%	\$478	\$105 \$105	\$583
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2061Q2	685.7%	\$478	\$105	\$583
3.0%	0 . 0 .	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2062Q2	726.5%	\$1,517	\$334	\$1,851
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2062Q2	726.5%	\$1,014	\$223	\$1,237
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2061Q2	685.7%	\$478	\$105	\$583
31	CONSTRUCTION MANAGEMENT													
10.0%		\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2062Q2	726.5%	\$5,062	\$1,114	\$6,175
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2062Q2	726.5%	\$1,014	\$223	\$1,237
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2062Q2	726.5%	\$1,270	\$279	\$1,549
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$35,019	\$7,704	\$42,723

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ 	COST _(\$K) <i>M</i>	CNTG _(\$K) N	FULL (\$K) <b>O</b>
	O&M CONTRACT 35 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2062Q2	140.3%	\$13,057	\$2,872	\$15,929
						_	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507		\$5,433	\$1,195	\$6,628			\$13,057	\$2,872	\$15,929
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2062Q2	726.5%	\$1,133	\$249	\$1,383
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2062Q2	726.5%	\$452	\$99	\$551
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$800 \$53	\$176 \$12	22.0% 22.0%	\$976 \$65	3.1% 3.1%	\$825 \$55	\$181 \$12	\$1,006 \$67	2062Q2 2062Q2	726.5% 726.5%	\$6,817 \$452	\$1,500 \$99	\$8,317 \$551
1.0%	Life Cycle Updates (cost, schedule, risks)	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2062Q2 2062Q2	726.5%	\$452	\$99	\$551
1.0%	Contracting & Reprographics	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2062Q2	726.5%	\$452	\$99	\$551
3.0%	Engineering During Construction	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2062Q4	748.0%	\$1,399	\$308	\$1,707
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2062Q4	748.0%	\$935	\$206	\$1,141
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2062Q2	726.5%	\$452	\$99	\$551
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2062Q4	748.0%	\$4,660	\$1,025	\$5,685
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2062Q4	748.0%	\$935	\$206	\$1,141
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2062Q4	748.0%	\$1,163	\$256	\$1,419
=	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$32,358	\$7,119	\$39,477

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 36	COST _(\$K) 	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC _(%) <b>G</b>	COST (\$K) <i>H</i>	CNTG (\$K) I	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG _(\$K)_ <b>N</b>	FULL _(\$K) 
09	CHANNELS & CANALS	\$23,144	\$5,092	22.0%	\$28,236	1.9%	\$23,574	\$5,186	\$28,760	2063Q2	145.1%	\$57,785	\$12,713	\$70,498
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$23,144	\$5,092	22.0%	\$28,236	-	\$23,574	\$5,186	\$28,760			\$57,785	\$12,713	\$70,498
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$579	\$127	22.0%	\$706	3.1%	\$597	\$131	\$728	2062Q2	726.5%	\$4,934	\$1,085	\$6,019
1.0%	3	\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2062Q2	726.5%	\$1,968	\$433	\$2,402
15.0%		\$3,472	\$764	22.0%	\$4,236	3.1%	\$3,580	\$788	\$4,367	2062Q2	726.5%	\$29,586	\$6,509	\$36,095
1.0% 1.0%		\$231 \$231	\$51 \$51	22.0% 22.0%	\$282 \$282	3.1% 3.1%	\$238 \$238	\$52 \$52	\$291 \$291	2062Q2 2062Q2	726.5% 726.5%	\$1,968 \$1,968	\$433 \$433	\$2,402 \$2,402
1.0%		\$231	\$51 \$51	22.0%	\$282	3.1%	\$238	\$52 \$52	\$291	2062Q2 2062Q2	726.5% 726.5%	\$1,968	\$433 \$433	\$2,402
3.0%		\$694	\$153	22.0%	\$847	3.1%	\$716	\$157	\$873	2063Q4	792.1%	\$6,383	\$1,404	\$7,787
2.0%		\$463	\$102	22.0%	\$565	3.1%	\$477	\$105	\$582	2063Q4	792.1%	\$4,258	\$937	\$5,195
1.0%	Project Operations	\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2062Q2	726.5%	\$1,968	\$433	\$2,402
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$2,314	\$509	22.0%	\$2,823	3.1%	\$2,386	\$525	\$2,911	2063Q4	792.1%	\$21,283	\$4,682	\$25,966
2.0%		\$463	\$102	22.0%	\$565	3.1%	\$477	\$105	\$582	2063Q4	792.1%	\$4,258	\$937	\$5,195
2.5%	Project Management	\$579	\$127	22.0%	\$706	3.1%	\$597	\$131	\$728	2063Q4	792.1%	\$5,325	\$1,172	\$6,497
	CONTRACT COST TOTALS:	\$32,863	\$7,230		\$40,093		\$33,594	\$7,391	\$40,985			\$143,657	\$31,604	\$175,261

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 37	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST (\$K) M	CNTG _(\$K) N	FULL (\$K) <b>O</b>
09	CHANNELS & CANALS	\$19,102	\$4,202	22.0%	\$23,304	1.9%	\$19,457	\$4,280	\$23,737	2064Q4	152.5%	\$49,135	\$10,810	\$59,944
							\$0							
						_	Ψ0							
	CONSTRUCTION ESTIMATE TOTALS:	\$19,102	\$4,202	22.0%	\$23,304		\$19,457	\$4,280	\$23,737			\$49,135	\$10,810	\$59,944
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$478	\$105	22.0%	\$583	3.1%	\$493	\$108	\$601	2064Q2	814.7%	\$4,508	\$992	\$5,500
1.0%		\$191	\$42	22.0%	\$233	3.1%	\$197	\$43	\$240	2064Q2	814.7%	\$1,801	\$396	\$2,198
15.0%		\$2,865	\$630	22.0%	\$3,495	3.1%	\$2,954	\$650	\$3,604	2064Q2	814.7%	\$27,019	\$5,944	\$32,963
1.0% 1.0%		\$191 \$191	\$42 \$42	22.0% 22.0%	\$233 \$233	3.1% 3.1%	\$197 \$197	\$43 \$43	\$240 \$240	2064Q2 2064Q2	814.7% 814.7%	\$1,801 \$1,801	\$396 \$396	\$2,198 \$2,198
1.0%		\$191	\$42 \$42	22.0%	\$233	3.1%	\$197 \$197	\$43 \$43	\$240 \$240	2064Q2 2064Q2	814.7%	\$1,801 \$1,801	\$396 \$396	\$2,198
3.0%		\$573	\$126	22.0%	\$699	3.1%	\$591	\$130	\$721	2065Q1	850.4%	\$5,615	\$1,235	\$6,850
2.0%		\$382	\$84	22.0%	\$466	3.1%	\$394	\$87	\$480	2065Q1	850.4%	\$3,743	\$823	\$4,566
1.0%	0 0	\$191	\$42	22.0%	\$233	3.1%	\$197	\$43	\$240	2064Q2	814.7%	\$1,801	\$396	\$2,198
31	CONSTRUCTION MANAGEMENT													
10.0%	6 Construction Management	\$1,910	\$420	22.0%	\$2,330	3.1%	\$1,969	\$433	\$2,402	2065Q1	850.4%	\$18,715	\$4,117	\$22,832
2.0%	6 Project Operation:	\$382	\$84	22.0%	\$466	3.1%	\$394	\$87	\$480	2065Q1	850.4%	\$3,743	\$823	\$4,566
2.5%	6 Project Management	\$478	\$105	22.0%	\$583	3.1%	\$493	\$108	\$601	2065Q1	850.4%	\$4,684	\$1,030	\$5,714
	CONTRACT COST TOTALS:	\$27,125	\$5,968		\$33,093		\$27,728	\$6,100	\$33,829			\$126,167	\$27,757	\$153,924

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 38	COST (\$K) <b>C</b>	CNTG _(\$K)	CNTG _(%) <i>E</i>	TOTAL _(\$K) <b>F</b>	ESC _(%) <b>G</b>	COST (\$K) H	CNTG (\$K) I	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ <i>L</i>	COST _(\$K) 	CNTG _(\$K) N	FULL <u>(\$K)</u> <b>O</b>
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2065Q3	156.3%	\$15,510	\$3,412	\$18,922
						=	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$15,510	\$3,412	\$18,922
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, 0	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2065Q2	862.3%	\$1,478	\$325	\$1,803
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2065Q2	862.3%	\$585	\$129	\$714
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2065Q2	862.3%	\$8,840	\$1,945	\$10,784
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2065Q2 2065Q2	862.3% 862.3%	\$585 \$585	\$129 \$129	\$714 \$714
1.0%		\$59 \$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2065Q2 2065Q2	862.3%	\$585 \$585	\$129 \$129	\$714
3.0%	0 . 0 .	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2066Q1	899.8%	\$1,835	\$404	\$2,238
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2066Q1	899.8%	\$1,227	\$270	\$1,497
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2065Q2	862.3%	\$585	\$129	\$714
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2066Q1	899.8%	\$6,123	\$1,347	\$7,470
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2066Q1	899.8%	\$1,227	\$270	\$1,497
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2066Q1	899.8%	\$1,536	\$338	\$1,874
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$40,702	\$8,954	\$49,656

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

8/24/2017

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis			тот	AL PROJECT COST (F	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST (\$K) <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%) <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC (%) <b>G</b>	COST _(\$K) <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)	COST _(\$K) <b>M</b>	CNTG _(\$K) <b>N</b>	FULL <u>(\$K)</u> <b>O</b>
09	O&M CONTRACT 39 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2066Q2	160.1%	\$14,133	\$3,109	\$17,242
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	=	\$5,433	\$1,195	\$6,628			\$14,133	\$3,109	\$17,242
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2066Q1	899.8%	\$1,371	\$302	\$1,673
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2066Q1	899.8%	\$546	\$120	\$667
15.0%	Engineering & Design	\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2066Q1	899.8%	\$8,246	\$1,814	\$10,061
1.0%	Reviews, ATRs, IEPRs, VE	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2066Q1	899.8%	\$546	\$120	\$667
1.0%	Life Cycle Updates (cost, schedule, risks)	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2066Q1	899.8%	\$546	\$120	\$667
1.0%	Contracting & Reprographics	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2066Q1	899.8%	\$546	\$120	\$667
3.0%	Engineering During Construction	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2066Q4	938.6%	\$1,713	\$377	\$2,090
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2066Q4	938.6%	\$1,146	\$252	\$1,398
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2066Q1	899.8%	\$546	\$120	\$667
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2066Q4	938.6%	\$5,708	\$1,256	\$6,963
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2066Q4	938.6%	\$1,146	\$252	\$1,398
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2066Q4	938.6%	\$1,424	\$313	\$1,738
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$37,619	\$8,276	\$45,895

Filename: HNC TPCS - OM - Rev 1.xlsm

TPCS

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS			тотл	AL PROJECT COST (F	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works <u>Feature &amp; Sub-Feature Description</u> <b>B</b>	COST _(\$K)	CNTG _(\$K) 	CNTG _(%)_ <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC (%) <b>G</b>	COST (\$K) H	CNTG _(\$K)/	TOTAL _(\$K)_ <b>J</b>	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)	COST _(\$K) <b>M</b>	CNTG _(\$K)_ N	FULL (\$K) <b>O</b>
09	O&M CONTRACT 40 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2066Q4	162.7%	\$15,899	\$3,498	\$19,397
						_	\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$15,899	\$3,498	\$19,397
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2066Q3	925.5%	\$1,575	\$347	\$1,922
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2066Q3	925.5%	\$624	\$137	\$761
15.0%	0 0	\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2066Q3	925.5%	\$9,420	\$2,072	\$11,493
1.0%	Reviews, ATRs, IEPRs, VE Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0% 22.0%	\$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2066Q3 2066Q3	925.5%	\$624 \$624	\$137 \$137	\$761
1.0% 1.0%	Contracting & Reprographics	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13 \$13	\$74 \$74	2066Q3 2066Q3	925.5% 925.5%	\$624 \$624	\$137 \$137	\$761 \$761
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2067Q2	965.0%	\$1,954	\$430	\$2,384
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2067Q2	965.0%	\$1,307	\$287	\$1,594
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2066Q3	925.5%	\$624	\$137	\$761
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2067Q2	965.0%	\$6,522	\$1,435	\$7,957
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2067Q2	965.0%	\$1,307	\$287	\$1,594
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2067Q2	965.0%	\$1,636	\$360	\$1,996
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$42,739	\$9,403	\$52,142

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare tive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 41	COST _(\$K)	CNTG _(\$K)_ D	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K) 	CNTG _(\$K)/	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	CHANNELS & CANALS	\$8,714	\$1,917	22.0%	\$10,631	1.9%	\$8,876	\$1,953	\$10,828	2068Q3	172.0%	\$24,142	\$5,311	\$29,453
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$8,714	\$1,917	22.0%	\$10,631	=	\$8,876	\$1,953	\$10,828			\$24,142	\$5,311	\$29,453
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	-, -	\$218	\$48	22.0%	\$266	3.1%	\$225	\$49	\$274	2068Q2	1020.3%	\$2,518	\$554	\$3,072
1.0%	6 Planning & Environmental Compliance	\$87	\$19	22.0%	\$106	3.1%	\$90	\$20	\$109	2068Q2	1020.3%	\$1,005	\$221	\$1,226
15.0%	0 0	\$1,307	\$288	22.0%	\$1,595	3.1%	\$1,348	\$296	\$1,644	2068Q2	1020.3%	\$15,097	\$3,321	\$18,418
1.0%	the state of the s	\$87	\$19	22.0%	\$106	3.1%	\$90	\$20	\$109	2068Q2	1020.3%	\$1,005	\$221	\$1,226
1.0%		\$87	\$19	22.0%	\$106	3.1%	\$90	\$20	\$109	2068Q2	1020.3%	\$1,005	\$221	\$1,226
1.0%		\$87	\$19	22.0%	\$106	3.1%	\$90	\$20	\$109	2068Q2	1020.3%	\$1,005	\$221	\$1,226
3.0%	0 0	\$261	\$57	22.0%	\$318	3.1%	\$269	\$59	\$328	2069Q1	1064.0%	\$3,132	\$689	\$3,821
2.0% 1.0%	3 3 3	\$174 \$87	\$38 \$19	22.0% 22.0%	\$212 \$106	3.1% 3.1%	\$179 \$90	\$39 \$20	\$219 \$109	2069Q1 2068Q2	1064.0% 1020.3%	\$2,088 \$1,005	\$459 \$221	\$2,548 \$1,226
31	CONSTRUCTION MANAGEMENT													
10.0%		\$871	\$192	22.0%	\$1,063	3.1%	\$898	\$198	\$1,096	2069Q1	1064.0%	\$10,453	\$2,300	\$12,753
2.0%	-	\$174	\$38	22.0%	\$212	3.1%	\$179	\$39	\$219	2069Q1	1064.0%	\$2,088	\$459	\$2,548
2.5%	* *	\$218	\$48	22.0%	\$266	3.1%	\$225	\$49	\$274	2069Q1	1064.0%	\$2,616	\$576	\$3,192
	CONTRACT COST TOTALS:	\$12,372	\$2,722		\$15,094		\$12,647	\$2,782	\$15,430			\$67,159	\$14,775	\$81,934

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL (\$K) O
09	O&M CONTRACT 42 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2069Q3	177.4%	\$16,788	\$3,693	\$20,482
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$16,788	\$3,693	\$20,482
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2069Q2	1078.6%	\$1,811	\$398	\$2,209
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2069Q2	1078.6%	\$717	\$158	\$875
15.0% 1.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196 \$13	22.0% 22.0%	\$1,087 \$72	3.1% 3.1%	\$919 <b>\$</b> 61	\$202 \$13	\$1,121 \$74	2069Q2 2069Q2	1078.6% 1078.6%	\$10,827 \$717	\$2,382 \$158	\$13,209 \$875
1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74 \$74	2069Q2 2069Q2	1078.6%	\$717 \$717	\$158	\$875
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72 \$72	3.1%	\$61	\$13	\$74	2069Q2	1078.6%	\$717 \$717	\$158	\$875
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2069Q4	1109.2%	\$2,219	\$488	\$2,707
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2069Q4	1109.2%	\$1,484	\$326	\$1,810
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2069Q2	1078.6%	\$717	\$158	\$875
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2069Q4	1109.2%	\$7,406	\$1,629	\$9,035
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2069Q4	1109.2%	\$1,484	\$326	\$1,810
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2069Q4	1109.2%	\$1,858	\$409	\$2,266
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$47,460	\$10,441	\$57,901

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 43	COST (\$K) C	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <i>P</i>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL (\$K) <b>O</b>
09	CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2070Q1	180.2%	\$15,221	\$3,349	\$18,570
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	=	\$5,433	\$1,195	\$6,628			\$15,221	\$3,349	\$18,570
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	6 Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2069Q4	1109.2%	\$1,658	\$365	\$2,023
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2069Q4	1109.2%	\$661	\$145	\$806
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2069Q4	1109.2%	\$9,974	\$2,194	\$12,168
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2069Q4	1109.2%	\$661	\$145	\$806
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2069Q4	1109.2%	\$661	\$145	\$806
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2069Q4	1109.2%	\$661	\$145	\$806
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2070Q3	1156.0%	\$2,072	\$456	\$2,528
2.0% 1.0%	0 0	\$107 \$53	\$24 \$12	22.0% 22.0%	\$131 \$65	3.1% 3.1%	\$110 \$55	\$24 \$12	\$135 \$67	2070Q3 2069Q4	1156.0% 1109.2%	\$1,386 \$661	\$305 \$145	\$1,690 \$806
31	CONSTRUCTION MANAGEMENT													
10.0%		\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2070Q3	1156.0%	\$6,902	\$1,518	\$8,420
2.0%	-	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2070Q3	1156.0%	\$1,386	\$305	\$1,690
2.5%		\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2070Q3	1156.0%	\$1,722	\$379	\$2,101
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$43,624	\$9,597	\$53,222

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	Vorks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis			тот	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K) 	CNTG _(\$K)	CNTG _(%) <i>E</i>	TOTAL _(\$K)_ <b>F</b>	ESC _(%) <b>G</b>	COST _(\$K) <i>H</i>	CNTG _(\$K)/	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%) _L	COST _(\$K) <b>M</b>	CNTG _(\$K) <b>N</b>	FULL (\$K) <b>O</b>
09	O&M CONTRACT 44 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2071Q3	188.6%	\$17,467	\$3,843	\$21,309
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$17,467	\$3,843	\$21,309
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING, ENGINEERING & DESIGN													
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2071Q2	1204.4%	\$2,004	\$441	\$2,445
1.0%	Planning & Environmental Compliance	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2071Q2	1204.4%	\$793	\$175	\$968
15.0%	Engineering & Design Reviews, ATRs, IEPRs, VE	\$891 \$59	\$196	22.0% 22.0%	\$1,087	3.1%	\$919 <b>\$</b> 61	\$202	\$1,121	2071Q2 2071Q2	1204.4% 1204.4%	\$11,982 \$793	\$2,636 \$175	\$14,618 \$968
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks)	\$59 \$59	\$13 \$13	22.0%	\$72 \$72	3.1% 3.1%	\$61	\$13 \$13	\$74 \$74	2071Q2 2071Q2	1204.4%	\$793 \$793	\$175 \$175	\$968
1.0%	Contracting & Reprographics	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2071Q2 2071Q2	1204.4%	\$793	\$175 \$175	\$968
3.0%	Engineering During Construction	\$178	\$39	22.0%	\$217	3.1%	\$184	\$40	\$224	2072Q2	1272.2%	\$2,518	\$554	\$3,072
2.0%	Planning During Construction	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2072Q2	1272.2%	\$1,684	\$370	\$2,054
1.0%	Project Operations	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2071Q2	1204.4%	\$793	\$175	\$968
31	CONSTRUCTION MANAGEMENT													
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2072Q2	1272.2%	\$8,403	\$1,849	\$10,252
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2072Q2	1272.2%	\$1,684	\$370	\$2,054
2.5%	Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2072Q2	1272.2%	\$2,108	\$464	\$2,572
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$51,816	\$11,400	\$63,216

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-		тот.	AL PROJECT COST (	FULLY FUNDED)	
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE	
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description	COST _(\$K)	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC _(%)_ <b>G</b>	COST _(\$K)_ <i>H</i>	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ 	COST _(\$K) <i>M</i>	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>
09	O&M CONTRACT 45 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2072Q2	192.9%	\$15,916	\$3,502	\$19,417
							\$0							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	-	\$5,433	\$1,195	\$6,628			\$15,916	\$3,502	\$19,417
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0
30	PLANNING. ENGINEERING & DESIGN													
2.5%	6 Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2072Q2	1272.2%	\$1,882	\$414	\$2,296
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2072Q2	1272.2%	\$750	\$165	\$915
15.0%		\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2072Q2	1272.2%	\$11,318	\$2,490	\$13,808
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2072Q2	1272.2%	\$750	\$165	\$915
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2072Q2	1272.2%	\$750	\$165	\$915
1.0%		\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2072Q2	1272.2%	\$750	\$165	\$915
3.0%	0 0	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2072Q4	1307.9%	\$2,322	\$511	\$2,833
2.0% 1.0%	0 0	\$107 \$53	\$24 \$12	22.0% 22.0%	\$131 \$65	3.1% 3.1%	\$110 \$55	\$24 \$12	\$135 \$67	2072Q4 2072Q2	1307.9% 1272.2%	\$1,553 \$750	\$342 \$165	\$1,895 \$915
31	CONSTRUCTION MANAGEMENT													
3 I 10.0%		\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2072Q4	1307.9%	\$7,736	\$1,702	\$9,439
2.0%	-	\$107	\$24	22.0%	\$030 \$131	3.1%	\$110	\$24	\$135	2072Q4 2072Q4	1307.9%	\$1,553	\$1,702	\$1,895
2.5%		\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2072Q4 2072Q4	1307.9%	\$1,930	\$425	\$2,355
	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$47,960	\$10,551	\$58,511

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-	TOTAL PROJECT COST (FULLY FUNDED)					
			nate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17	FULLY FUNDED PROJECT ESTIMATE					
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 46	COST _(\$K)	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) 	ESC _(%)_ <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)	Mid-Point <u>Date</u> <b>P</b>	INFLATED(%)	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>	
09	CHANNELS & CANALS	\$23,120	\$5,086	22.0%	\$28,206	1.9%	\$23,549	\$5,181	\$28,730	2073Q2	198.8%	\$70,367	\$15,481	\$85,847	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$23,120	\$5,086	22.0%	\$28,206	-	\$23,549	\$5,181	\$28,730			\$70,367	\$15,481	\$85,847	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING. ENGINEERING & DESIGN														
2.5%		\$578	\$127	22.0%	\$705	3.1%	\$596	\$131	\$727	2072Q2	1272.2%	\$8,177	\$1,799	\$9,976	
1.0%	6 Planning & Environmental Compliance	\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2072Q2	1272.2%	\$3,268	\$719	\$3,987	
15.0%	0 0	\$3,468	\$763	22.0%	\$4,231	3.1%	\$3,576	\$787	\$4,362	2072Q2	1272.2%	\$49,062	\$10,794	\$59,856	
1.0%		\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2072Q2	1272.2%	\$3,268	\$719	\$3,987	
1.0%		\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2072Q2	1272.2%	\$3,268	\$719	\$3,987	
1.0%		\$231	\$51	22.0%	\$282	3.1%	\$238	\$52	\$291	2072Q2	1272.2%	\$3,268	\$719	\$3,987	
3.0%	0 0	\$694	\$153	22.0%	\$847	3.1%	\$716	\$157	\$873	2073Q4	1381.1%	\$10,597	\$2,331	\$12,929	
2.0% 1.0%	3 1 3 1 1 1 1 1 1 1	\$462 \$231	\$102 \$51	22.0% 22.0%	\$564 \$282	3.1% 3.1%	\$476 \$238	\$105 \$52	\$581 \$291	2073Q4 2072Q2	1381.1% 1272.2%	\$7,055 \$3,268	\$1,552 \$719	\$8,607 \$3,987	
24	0010770107101144114074717														
<b>31</b> 10.0%	CONSTRUCTION MANAGEMENT  Construction Management	\$2.312	\$509	22.0%	\$2,821	3.1%	\$2,384	\$524	\$2,908	2073Q4	1381.1%	\$35,304	\$7,767	\$43,071	
2.0%	-	\$2,312 \$462	\$102	22.0%	\$564	3.1%	\$476	\$105	\$2,906 \$581	2073Q4 2073Q4	1381.1%	\$35,304 \$7,055	\$1,552	\$43,071 \$8,607	
2.5%		\$578	\$102	22.0%	\$705	3.1%	\$596	\$105	\$727	2073Q4 2073Q4	1381.1%	\$8,826	\$1,942	\$10,768	
	CONTRACT COST TOTALS:	\$32,829	\$7,222		\$40,051		\$33,559	\$7,383	\$40,942			\$212,782	\$46,812	\$259,594	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report;

0

DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil \	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COST Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
		Estimate Prepared: Effective Price Level:			<b>24-Aug-17</b> 1-Oct-16		ram Year (Bu ctive Price L		2018 1 OCT 17	FULLY FUNDED PROJECT ESTIMATE					
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 47	COST (\$K) <b>C</b>	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST (\$K) H	CNTG _(\$K) 	TOTAL _(\$K) 	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)L	COST _(\$K)_ <i>M</i>	CNTG _(\$K) N	FULL <u>(\$K)</u> <b>O</b>	
09	CHANNELS & CANALS	\$19,853	\$4,368	22.0%	\$24,221	1.9%	\$20,222	\$4,449	\$24,670	2074Q4	207.8%	\$62,250	\$13,695	\$75,945	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$19,853	\$4,368	22.0%	\$24,221	-	\$20,222	\$4,449	\$24,670			\$62,250	\$13,695	\$75,945	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING. ENGINEERING & DESIGN														
2.5%		\$496	\$109	22.0%	\$605	3.1%	\$511	\$113	\$624	2074Q2	1418.6%	\$7,766	\$1,708	\$9,474	
1.0%	6 Planning & Environmental Compliance	\$199	\$44	22.0%	\$243	3.1%	\$205	\$45	\$250	2074Q2	1418.6%	\$3,116	\$685	\$3,801	
15.0%	Engineering & Design	\$2,978	\$655	22.0%	\$3,633	3.1%	\$3,070	\$675	\$3,746	2074Q2	1418.6%	\$46,626	\$10,258	\$56,883	
1.0%		\$199	\$44	22.0%	\$243	3.1%	\$205	\$45	\$250	2074Q2	1418.6%	\$3,116	\$685	\$3,801	
1.0%		\$199	\$44	22.0%	\$243	3.1%	\$205	\$45	\$250	2074Q2	1418.6%	\$3,116	\$685	\$3,801	
1.0%		\$199	\$44	22.0%	\$243	3.1%	\$205	\$45	\$250	2074Q2	1418.6%	\$3,116	\$685	\$3,801	
3.0%	0 0	\$596	\$131	22.0%	\$727	3.1%	\$614	\$135	\$750	2075Q1	1477.8%	\$9,695	\$2,133	\$11,828	
2.0%	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$397	\$87	22.0%	\$484	3.1%	\$409	\$90	\$499	2075Q1	1477.8%	\$6,458	\$1,421	\$7,879	
1.0%	6 Project Operations	\$199	\$44	22.0%	\$243	3.1%	\$205	\$45	\$250	2074Q2	1418.6%	\$3,116	\$685	\$3,801	
31	CONSTRUCTION MANAGEMENT														
10.0%	6 Construction Management	\$1,985	\$437	22.0%	\$2,422	3.1%	\$2,047	\$450	\$2,497	2075Q1	1477.8%	\$32,291	\$7,104	\$39,395	
2.0%	6 Project Operation:	\$397	\$87	22.0%	\$484	3.1%	\$409	\$90	\$499	2075Q1	1477.8%	\$6,458	\$1,421	\$7,879	
2.5%	6 Project Management	\$496	\$109	22.0%	\$605	3.1%	\$511	\$113	\$624	2075Q1	1477.8%	\$8,069	\$1,775	\$9,844	
	CONTRACT COST TOTALS:	\$28,193	\$6,202		\$34,395		\$28,820	\$6,340	\$35,160			\$195,191	\$42,942	\$238,133	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil	Works Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
					<b>24-Aug-17</b> 1-Oct-16		am Year (Bu		2018 1 OCT 17	FULLY FUNDED PROJECT ESTIMATE					
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description	COST (\$K) C	CNTG _(\$K)	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <b>P</b>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>	
09	O&M CONTRACT 48 CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2075Q3	212.4%	\$18,906	\$4,159	\$23,066	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248	-	\$6,051	\$1,331	\$7,383			\$18,906	\$4,159	\$23,066	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2075Q2	1497.6%	\$2,454	\$540	\$2,994	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2075Q2	1497.6%	\$972	\$214	\$1,186	
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2075Q2	1497.6%	\$14,676	\$3,229	\$17,904	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2075Q2	1497.6%	\$972	\$214	\$1,186	
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2075Q2 2075Q2	1497.6% 1497.6%	\$972 \$972	\$214 \$214	\$1,186 \$1,186	
3.0%		\$178	\$39	22.0%	\$217	3.1%	\$184	\$13 \$40	\$74 \$224	2075Q2 2076Q1	1559.9%	\$3,046	\$214 \$670	\$3,716	
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2076Q1	1559.9%	\$2,036	\$448	\$2,485	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2075Q2	1497.6%	\$972	\$214	\$1,186	
31	CONSTRUCTION MANAGEMENT														
10.0%	6 Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2076Q1	1559.9%	\$10,165	\$2,236	\$12,402	
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2076Q1	1559.9%	\$2,036	\$448	\$2,485	
2.5%	6 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2076Q1	1559.9%	\$2,550	\$561	\$3,111	
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$60,729	\$13,360	\$74,090	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil W	orks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis		TOTAL PROJECT COST (FULLY FUNDED)					
			ate Prepare ive Price Lev		<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17		FULLY	FUNDED PROJECT E	STIMATE		
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B	COST _(\$K)_ C	CNTG _(\$K)_ <b>D</b>	CNTG _(%) <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K)_ H	CNTG _(\$K)	TOTAL _(\$K)_ J	Mid-Point <u>Date</u> <i>P</i>	INFLATED _(%)_ L	COST (\$K) M	CNTG (\$K) N	FULL _(\$K) 	
09	O&M CONTRACT 49 CHANNELS & CANALS	\$5,334	\$1,173	22.0%	\$6,507	1.9%	\$5,433	\$1,195	\$6,628	2076Q2	217.1%	\$17,228	\$3,790	\$21,018	
							\$0								
	CONSTRUCTION ESTIMATE TOTALS:	\$5,334	\$1,173	22.0%	\$6,507	=	\$5,433	\$1,195	\$6,628			\$17,228	\$3,790	\$21,018	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2076Q1	1559.9%	\$2,276	\$501	\$2,777	
1.0%	Planning & Environmental Compliance	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2076Q1	1559.9%	\$907	\$200	\$1,107	
15.0%	Engineering & Design	\$800	\$176	22.0%	\$976	3.1%	\$825	\$181	\$1,006	2076Q1	1559.9%	\$13,691	\$3,012	\$16,703	
1.0%	Reviews, ATRs, IEPRs, VE	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2076Q1	1559.9%	\$907	\$200	\$1,107	
1.0% 1.0%	Life Cycle Updates (cost, schedule, risks) Contracting & Reprographics	\$53 \$53	\$12 \$12	22.0% 22.0%	\$65 \$65	3.1% 3.1%	\$55 \$55	\$12 \$12	\$67 \$67	2076Q1 2076Q1	1559.9% 1559.9%	\$907 \$907	\$200 \$200	\$1,107 \$1,107	
3.0%	Engineering During Construction	\$160	\$35	22.0%	\$195	3.1%	\$165	\$36	\$201	2076Q1 2076Q4	1624.3%	\$2,844	\$200 \$626	\$3,470	
2.0%	Planning During Construction	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2076Q4	1624.3%	\$1,902	\$418	\$2,321	
1.0%	Project Operations	\$53	\$12	22.0%	\$65	3.1%	\$55	\$12	\$67	2076Q1	1559.9%	\$907	\$200	\$1,107	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$533	\$117	22.0%	\$650	3.1%	\$550	\$121	\$670	2076Q4	1624.3%	\$9,476	\$2,085	\$11,560	
2.0%	Project Operation:	\$107	\$24	22.0%	\$131	3.1%	\$110	\$24	\$135	2076Q4	1624.3%	\$1,902	\$418	\$2,321	
2.5%	Project Management	\$133	\$29	22.0%	\$162	3.1%	\$137	\$30	\$167	2076Q4	1624.3%	\$2,364	\$520	\$2,885	
•	CONTRACT COST TOTALS:	\$7,572	\$1,666		\$9,238		\$7,740	\$1,703	\$9,443			\$56,219	\$12,368	\$68,587	

PROJECT: LOCATION: Houma Navigation Canal Deepening Project Houma, LA

This Estimate reflects the scope and schedule in report; 0 DISTRICT: New Orleans District
POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

Civil V	Norks Work Breakdown Structure		ESTIMAT	ED COST				FIRST COS Dollar Basis	-	TOTAL PROJECT COST (FULLY FUNDED)					
		Estimate Prepared: Effective Price Level:			<b>24-Aug-17</b> 1-Oct-16		am Year (Bu ctive Price L		2018 1 OCT 17	FULLY FUNDED PROJECT ESTIMATE					
WBS <u>NUMBER</u> <b>A</b>	Civil Works Feature & Sub-Feature Description B O&M CONTRACT 50	COST (\$K) <b>C</b>	CNTG _(\$K)_ <b>D</b>	CNTG _(%)_ <i>E</i>	TOTAL _(\$K) <i>F</i>	ESC (%) <b>G</b>	COST _(\$K) 	CNTG _(\$K) 	TOTAL _(\$K)_ 	Mid-Point <u>Date</u> <b>P</b>	INFLATED (%) L	COST (\$K) M	CNTG (\$K) N	FULL _(\$K)_ <b>O</b>	
09	CHANNELS & CANALS	\$5,941	\$1,307	22.0%	\$7,248	1.9%	\$6,051	\$1,331	\$7,383	2076Q4	220.3%	\$19,381	\$4,264	\$23,645	
							\$0								
						=									
	CONSTRUCTION ESTIMATE TOTALS:	\$5,941	\$1,307	22.0%	\$7,248		\$6,051	\$1,331	\$7,383			\$19,381	\$4,264	\$23,645	
01	LANDS AND DAMAGES	\$0	\$0	0.0%	\$0	0.0%	\$0	\$0	\$0	0	0.0%	\$0	\$0	\$0	
30	PLANNING, ENGINEERING & DESIGN														
2.5%	, ,	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2076Q3	1602.5%	\$2,615	\$575	\$3,191	
1.0%	3	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2076Q3	1602.5%	\$1,036	\$228	\$1,263	
15.0%		\$891	\$196	22.0%	\$1,087	3.1%	\$919	\$202	\$1,121	2076Q3	1602.5%	\$15,639	\$3,441	\$19,080	
1.0%		\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2076Q3	1602.5%	\$1,036	\$228	\$1,263	
1.0% 1.0%		\$59 \$59	\$13 \$13	22.0% 22.0%	\$72 \$72	3.1% 3.1%	\$61 \$61	\$13 \$13	\$74 \$74	2076Q3 2076Q3	1602.5% 1602.5%	\$1,036 \$1,036	\$228 \$228	\$1,263 \$1,263	
3.0%		\$178	\$39	22.0%	\$217	3.1%	\$184	\$13 \$40	\$74 \$224	2076Q3 2077Q2	1668.0%	\$1,036 \$3,245	\$226 \$714	\$1,263 \$3,958	
2.0%		\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2077Q2	1668.0%	\$2,169	\$477	\$2,646	
1.0%	0 0	\$59	\$13	22.0%	\$72	3.1%	\$61	\$13	\$74	2076Q3	1602.5%	\$1,036	\$228	\$1,263	
31	CONSTRUCTION MANAGEMENT														
10.0%	Construction Management	\$594	\$131	22.0%	\$725	3.1%	\$612	\$135	\$747	2077Q2	1668.0%	\$10,828	\$2,382	\$13,210	
2.0%	Project Operation:	\$119	\$26	22.0%	\$145	3.1%	\$123	\$27	\$150	2077Q2	1668.0%	\$2,169	\$477	\$2,646	
2.5%	5 Project Management	\$149	\$33	22.0%	\$182	3.1%	\$154	\$34	\$187	2077Q2	1668.0%	\$2,716	\$598	\$3,314	
	CONTRACT COST TOTALS:	\$8,435	\$1,856		\$10,291		\$8,623	\$1,897	\$10,520			\$63,940	\$14,067	\$78,007	

# HOUMA NAVIGATION CANAL NAVIGATION IMPROVEMENT PROJECT

# COST ESTIMATE NARRATIVE

# 1. Project Description

- A. General: This work is in support of the proposed navigation improvements designed for the Houma Navigation Canal (HNC) located in Terrebonne Parish, Louisiana. The HNC is a 41-mile navigation channel which starts in Houma, LA and continues south into the Gulf of Mexico. Several alternatives have been studied and a tentatively selected plan (TSP) has been recommended for further study and analysis. The TSP would deepen the Canal from and elevation of -15-ft MLG to -20-ft NAVD88.
- B. <u>Purpose</u>: The purpose of this work is to develop detailed cost estimates consistent to the level of design for the cost and quantities of the project features using Micro-Computer Aided Cost Estimating System (MCACES).
- C. <u>Design Features</u>: Features of the Houma Navigation Canal TSP includes: relocation of existing pipelines and facilities, dredging a total of 39.8 miles of the waterway, construction of stone dikes along certain portions of the canal banks, and the construction of dikes and containment cells for upland and open water disposal.

# 2. Basis of Estimate

- A. <u>Basis of Design</u>: The project's design documents are listed below. The project site plan and layout are presented in Appendix A.
  - Feasibility Report for the Houma Navigation Canal Navigation Improvement Project, Preliminary Draft, August 2017.
  - Design Plates C1 thru C19 and G1 thru G53 for the Houma Navigation Deepening General Reevaluation Report, August 2017.
- B. <u>Basis of Quantities</u>: The cost estimates are based on project quantity take-offs that have been calculated by the designer from the documents listed above. Dredge quantities are pay volumes and do not reflect overdepth. Stone quantities reflect initial construction losses and expected settlement. A quantities summary of the quantity take-offs are presented in Appendix B.

# 3. Construction Schedule

The estimate is based on initial construction occurring over a 17-year period (including relocations). A tentative project schedule is provided in Appendix C. The schedule is based on the following reasoning and assumptions:

- The pipeline relocations would need to be accomplished prior to dredging to deepen the canal,
- The Houma Lock would need to be constructed prior to dredging to deepen the canal,

- For estimating and scheduling purposes the Houma Lock construction is assumed to be competed in January 2022,
- Hydraulic dredge construction crew (2 shifts) working 12hr/shift/day, and 7 day weeks,
- Mechanical dredge construction crew (2 shifts) working 12hr/shift/day, and 7 day weeks,
- Stone placement construction crew (1 shifts) working 12hr/shift/day, and 7 day weeks,
- Typical construction crew (1 shift) working 12hr/day, and 7 day weeks.

# 4. Contracting Plan

This project would likely be let out in at least 8 separate contracts. The local sponsor would likely let out three contracts for the pipeline relocations. The remainder of the project would likely be let out in the following 5 Federal contracts; 1) channel improvements between miles 36.3 to 22.0, 2) channel improvements between miles 22.0 to 11.5, 3) channel improvements between miles 11.5 to 6.0, 4) channel improvements between miles 6.0 to 0.0, and 5) channel improvements between miles 0.0 to -3.5. Each of these contracts would likely be let out to one prime construction contractor. For estimating purposes, one prime construction contractor was used for each contract to reflect the prime contractor mark-up. The prime contractor would be responsible for the preparatory work, dredging, stone placement, and containment cell creation.

# 5. Project Construction

- A. <u>Mobilization/Demobilization</u>: For estimating purposes it is assumed that hydraulic dredging crews and equipment would be mobilized and demobilized from within the greater Gulf Coast region for a distance of 300 miles and 150 miles respectively. And mechanical dredging and stone placement crews and equipment would be mobilized and demobilized from within the greater Gulf Coast region for a distance of 150 miles and 75 miles respectively.
- B. <u>Construction Crew Per Diem:</u> For all work performed it is assumed that the construction crews would be lodged on a quarters barge, with costs based on ownership and operation of the quarters barge and GSA approved meals and incidentals rates.
- C. <u>Borrow/Disposal Areas and Materials</u>: The stone for the channel bank protection along the canal is assumed to be transported by barge and tug from quarries located north of Louisiana along the Mississippi River.

# D. Construction Methodology:

Relocations – It is estimated that 28 pipelines, ranging between 2.5-inches to 36-inches in diameter, and 5 cable crossings underneath HNC would require relocation. These relocations would be required to ensure 8-feet of cover from the (-) 20.0-feet NAVD88 channel depth to the top of pipe. The pipeline relocations are assumed to be accomplished with directional drilling crews. The pipeline relocation labor and equipment crews are assumed to work one 12-hour shift per day.

Access Corridor – Several access corridors would be required in order to place the hydraulic dredge pipelines from the waterways to the disposal sites. The access

corridors are assumed to be 100-ft wide. The corridor clearing is assumed to involve the use of dozer, work barge and tug crews working one 12-hour shift per day. Access would be the same for both deepening and maintenance.

- River Mile 34.0 to 32.0 and Mile 32.0 to 29.5 Assumes an access corridor
  of approximately 12,600-LF in order to obtain access to Wetland Site 7E
  from HNC. Dredge pipe will be jack and bored beneath Bayou Gran Caillou
  and Grand Caillou Road.
- River Mile 29.5 to 28.0 Assumes an access corridor of approximately 5,500-LF in order to allow for the dredge pipelines to access Wetland Sites 12 and 12B which are to the east of the HNC.
- River Mile 28.0 to 26.0 and Mile 26.0 to 24.0 Assumes an access corridor would be constructed with an approximate total length of 5,900-LF. The corridor would be constructed on the west side of the HNC toward disposal sites A-07-A and 14A.
- River Mile 24.0 to 22.0 and 22.0 to 20.0 Assumes an access corridor of approximately 2,500-LF in order to obtain access to Wetland Sites 15 and 15A to the west of the HNC.
- River Mile 22.0 to 20.0 Assumes an access corridor of approximately 1,500-LF in order to obtain access to Wetland Site 16 to the west of the HNC.
- River Mile 20.0 to 18.0 Assumes an access corridor of approximately 2,200-LF in order to allow for the dredge pipelines to access Wetland Site 19D, located west of the HNC.
- River Mile 20.0 to 18.0 Assumes an access corridor of approximately 200-LF in order to allow for the dredge pipelines to access Wetland Site 19C, located west of the HNC.
- River Mile 18.0 to 16.0 Assumes an access corridor of approximately 500-LF in order to obtain access to Wetland Site 20C, located west of the HNC.
- River Mile 13.0 to 11.5 Assumes an access corridor of approximately 1,400-LF in length to allow for pipeline access to Wetland Site 24, located west of the HNC.

Hydraulic Dredging – The navigation canal improvements would require the use of a hydraulic cutterhead dredge to deepen the channel. The proposed authorized channel depth is -20 feet NAVD88 with advanced maintenance dredging of 2-ft from River Mile 36.3 to 11.5, 3-ft from River Mile 11.5 to 0.0 and 4-ft from River Mile 0.0 to -3.5. The channel bottom width at the bottom of the advanced maintenance would be of 150-feet from River Mile 36.3 to 0.0 and 300-ft from River Mile 0.0 to -3.5. The dredged channel would have side slopes of 3(h):1(v). The contractor would be allowed a 1-ft overdepth across the bottom width to assure the desired depths are attained. The hydraulically dredged material is assumed to be pumped in a pipeline to the designated disposal areas. The geotechnical boring information provided in Design Plates G1 thru G53 were reviewed to determine the

probable soil material composition that would be encountered during the dredging process. The disposal sites described below apply for both deepening and maintenance.

- River Mile 36.3 to 34.0 It is assumed that a 27-inch hydraulic cutterhead dredge crew would be used. All dredged material from this reach would be pumped to confined upland Sites 1 and 3. Material would be placed within the outer extent of the disposal areas (west or east) first.
- River Mile 34.0 to 32.0 A 27-inch hydraulic cutterhead dredge crew is assumed to be used in this reach. Material dredged in this location would be disposed of in Wetland Site 7E, where dike construction would be required. A pipeline access corridor would be cleared to make way for the dredge pipelines. The pipeline will be jack and bored below a roadway and placed within existing canals to reduce impacts to private property. Retention Dikes would also be constructed in order to contain the dredged material. Dredged material would be placed to the northeast portion of the disposal are before moving toward the southwest.
- River Mile 32.0 to 29.5 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. All of the dredged material in this section of channel would be disposed of in Wetland Site 7E, where dike construction would be required. A pipeline access corridor would be cleared to make way for the dredge pipelines. The pipeline will be jack and bored below a roadway and placed within existing canals to reduce impacts to private property. Retention dikes would also be constructed in order to contain the dredged material. Material would first be placed to the northeast and proceed to the southwest.
- River Mile 29.5 to 28.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. The dredged material in this reach would be pumped to Wetland Sites 12 and 12B. Material placement would require dike construction in both sites. An access corridor would need to be constructed prior to placement of material. Material would be placed on the eastern side of the disposal area first and then proceed west.
- River Mile 28.0 to 26.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. The dredged material would be placed within Wetland Site A-07-A. This site would require dike construction to accommodate disposal. An access corridor would need to be constructed in order to place the dredged materials at this site. Material would be placed from the west side first and proceed to the eastern portion of the disposal area.
- River Mile 26.0 to 24.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. The dredged material would be placed unconfined within Wetland Sites A-07-A and 14A. Dike construction would be required. An access corridor would need to be constructed in order to place the dredged materials at this site. Material would be placed from the west side first and proceed to the eastern portion of the disposal areas.

- River Mile 24.0 to 22.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. The dredged material would be placed semi-confined within Wetland Sites 15 and 15A. Retention dikes and an access corridor would need to be constructed. The material should be placed in the northeast corner of the site first, and proceed towards the southwest.
- River Mile 22.0 to 20.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed unconfined in Wetland Site 16, but containment dikes would be required within Wetland Site 15A, which is along the west bank of the channel. Material would be placed from the west to the east in both sites.
- River Mile 20.0 to 18.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. An access corridor would be required. All dredged material is assumed to be placed within Wetland Sites 19C and 19D. Containment dikes would be required for disposal in both sites. The discharge pipe would be placed at the outer extent of the disposal sites, furthest from the HNC.
- River Mile 18.0 to 16.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be pumped to Wetland Sites 20C and 21. Material would be placed within confined disposal cells. A pipeline access corridor would be constructed. The disposal pipeline would first be placed to the western extent of both disposal sites and move east as required.
- River Mile 16.0 to 13.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Material would be pumped to Wetland Site 21. The discharge pipe would be initially placed in the southwest portion of the disposal area. Containment dikes would be required.
- River Mile 13.0 to 11.5 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed within Wetland Sites 21 and 24 on the west bank of the channel. Pipeline access corridors would need to be cleared. Initial build-up of material should occur in the western side of the disposal areas. Construction of containment dikes would be required.
- River Mile 11.5 to 10.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. All dredged material would be placed unconfined to the east of the channel as single point discharges.
- River Mile 10.0 to 6.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed unconfined to the east of the channel as single point discharges.
- River Mile 6.0 to 5.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed unconfined to the east of the channel as single point discharges.

- River Mile 5.0 to 2.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed unconfined to the east of the channel as single point discharges.
- River Mile 2.0 to 1.5 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. Dredged material would be placed unconfined to the east of the channel as single point discharges.
- River Mile 1.5 to 0.0 Assumes a 27-inch hydraulic cutterhead dredge crew would be used. The dredged material would be placed unconfined to the east of the channel as single point discharges.
- River Mile 0.0 to -3.5 Assumes a 30-inch hydraulic cutterhead dredge crew would be used. The dredged material would be placed unconfined to the east of the channel as single point discharges.

Stone Placement – The stone is assumed to be purchased in the Louisiana/Arkansas region, and barged to the project site. A flotation channel would be excavated from an assumed existing depth of -2-ft to -6-ft, which would allow enough draft depth for light loaded barges during placement of the stone. The flotation channel would be excavated approximately 80-ft wide and the material would be placed on the bank beyond the stone placement limits. The flotation channel would be excavated with a barge mounted dragline crane crew working two shifts of 12-hours per day. Geotextile fabric would be placed prior to the stone. The stone barges would be light loaded prior to entering the flotation channel. The placement of the stone would be accomplished using a barge mounted drag line crane crews working one shift of 12-hours per day.

- River Mile 27.6 to 27.4 Existing stone would be refurbished along the west bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 26.4 to 25.9 Stone would be placed on the west bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 25.9 to 24.1 Stone would be placed on the west bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 23.7 to 22.4 Stone would be placed on the east bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 22.2 to 22.1 Stone would be placed on the east bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 19.2 to 17.5 Stone would be placed on the east bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.

- River Mile 19.1 to 18.4 Stone would be placed on the west bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 18.3 to 17.8 Stone would be placed on the west bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 17.7 to 16.7 Stone would be placed on the west bank of the channel. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 16.9 to 13.3 Stone would be placed on the east bank of the channel as foreshore protection. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 15.6 to 14.0 Stone would be placed on the west bank of the channel as rock retention. The height of the stone dike would be placed to 6.0-feet NAVD88.
- River Mile 13.2 to 11.9 Stone would be placed on the west bank of the channel. The height of the stone dike would be placed to 5.0-feet NAVD88.
- River Mile 12.7 to 12.3 Stone would be placed on the east bank of the channel. The height of the stone dike would be placed to 5.0-feet NAVD88
- E. <u>Unusual Conditions</u>: Unusual conditions that might influence construction costs include unusually wet weather conditions or hurricanes.
- F. <u>Unique Construction Techniques</u>: The pipeline relocations would be performed by directional drilling. The retention dike construction would be performed by marsh cranes crews. The dredging would be performed by hydraulic cutterhead dredges with pipelines to the disposal sites. The stone bank protection would be placed by barge mounted cranes.
- G. <u>Equipment/Labor Availability and Distance Traveled</u>: All equipment is assumed to be available in the greater Gulf Coast region. Some labor may have to come from other parts of the country.

# 6. Environmental Concerns

Construction activities would likely increase turbidity in the canal. There is a potential for construction equipment to leak or spill contaminates into the waterway. Costs associated with these potential environmental concerns were not included in this estimate.

# 7. Effective Dates for Labor, Equipment and Material Pricing

The labor, equipment, and material pricing were developed using the MCACES 2012 English Unit Cost Library, 2015 National Labor Library, and the 2014 Equipment Library (Region 8) for the base cost estimates. The index pricing data has been prepared in October 2016 dollars. The labor rates from the MCACES 2015 National Labor Library were compared with the current Davis-Bacon Wage rates (General Decision County Index LA20160011, and LA20160016) and actual wage rates (see Appendix D). The actual wage rates are higher than Davis-Bacon Wage Rates for the heavy dredging. The Davis-Bacon Wage Rates were used in the estimate for typical

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construction along with the actual wage rates for the heavy dredging. The higher rates along with the overtime would likely be needed to attract labor to this market.

The base cost estimate has been updated with a materials sales tax of 6.05% and current quoted fuel prices of \$2.25/gal for off-road diesel, \$2.65/gal for on-road diesel and \$2.10/gal for gasoline in the Houma, LA area.

## **8. Estimated Production Rates**

The construction of this project would require many types of specialty crews and equipment due to the unique construction techniques required for over-water work. Production rates were developed through the USACE Cost Engineering Dredge Estimating Program (CEDEP), by CEMVN.

#### 9. CEDEP

Mobilization and Demobilization costs as well as unit costs for hydraulic dredging have been estimated with the Corps CEDEP program without including overhead and profit. These direct costs were entered into MCACES where overhead and profit have been applied.

# 10. Project Markups

- A. <u>Escalation</u>: Escalation has been calculated in two steps. Price levels have first been escalated from effective price levels of the base cost estimate of January 2012 to an effective price level for October 2017 to match the authorized budget year (FY2018). Price levels are then escalated again from the budget year to an effective price level for year and quarter of mid-point of construction for each contract. The escalation cost factors for CWBS Feature Codes 02-Relocations and 09-Channels were taken from EM 1110-2-1304 Civil Works Construction Cost Index System (tables revised 30 September, 2015).
- B. <u>Contingency</u>: Contingencies represent allowances to cover unknowns, uncertainties and/or unanticipated conditions that are not possible to adequately evaluate from the data on hand at the time the cost estimate is prepared but must be represented by a sufficient cost to cover the identified risks. An overall contingency of 21% has been used for construction to cover design changes and uncertainties in quantities and unit prices. The 21% contingency was determined through a Cost and Schedule Risk Analysis (CSRA Appendix N). The CSRA provided a contingency cost of 22% for Operations and Maintenance.

## 11. Functional Costs

Functional costs associated with this work were estimated as follows:

A. <u>01 Account – Lands and Damages</u>: Costs for this account were developed by the Louisiana Department of Transportation and Development. These costs include \$12,843,000 for real estate which includes easements required for mitigation and a 25% contingency cost. Additional costs of \$824,000 for BLH mitigation bank and \$93,000 for cypress mitigation bank were applied to the initial deepening contract and are not included in the Lands and Damages account. A cost of \$9,000 for oyster lease mitigation is included. The Lands and Damages costs are assumed to occur one time in the first contract year of the project with no additional costs incurred over the 50-year design life.

- B. <u>30 Account Planning, Engineering, and Design</u>: Costs for this account were estimated at 15% of the construction cost. This account covers the preparation of Plans Specifications and Estimate for construction.
- C. <u>31 Account Construction Management</u>: Costs for this account were estimated at 10% of the construction cost. This account covers construction management during the construction contract.

#### 12. Construction Cost Estimate

The construction cost estimate was developed using MCACES 2nd Generation (MII) estimating software in accordance with guidance contained in ER 1110-2-1302, Civil Works Cost Engineering. The MCACES construction cost estimate does not include project markups or functional costs. See Appendix F for the MCACES construction cost estimate output report.

## 13. Operation and Maintenance Cost Estimate

The operation and maintenance cost estimate was prepared for anticipated maintenance dredging and stone placement requirements. See Appendix G for the MCACES operation and maintenance cost estimate output report.

# Maintenance Dredging:

- River Mile 36.3 to 34.0 Maintenance dredging would start five years after the construction of this reach has been completed. The hydraulic dredging would occur every five years. The dredged material would be disposed of in confined upland Sites 1 and 3.
- River Mile 34.0 to 32.0 Maintenance dredging would occur every ten years after the initial construction is completed. The hydraulically dredged material would be placed within Wetland Site 7E. Approximately 13,800-LF of dikes would also need to be refurbished every ten years as well. A 100-FT wide pipeline access corridor would be required for the disposal of dredged material.
- River Mile 32.0 to 29.5 Maintenance dredging would occur every ten years after the initial construction is completed. The hydraulically dredged material would be placed within semi-confined Wetland Site 7E. Approximately 13,800-LF of dikes would also need to be re-furbished every ten years as well. A 100-FT wide pipeline access corridor would be required for the disposal of dredged material.
- River Mile 29.5 to 28.0 Maintenance dredging would occur every ten years after the initial construction phase is completed. The hydraulically dredged material would be disposed of semi-confined within Wetland Sites 12 and 12B. A 100-FT wide pipeline access corridor would be required for the disposal of dredged material. Approximately 1,800-LF (Site 12) and 1,600-LF (Site 12B) of dikes would need to be re-furbished every ten years as well.
- River Mile 28.0 to 26.0 Maintenance dredging would occur every ten years after the
  initial construction phase is completed. The hydraulically dredged material would be
  disposed of semi-confined within Wetland Site A-07-A. A 100-FT wide pipeline access
  corridor would be required. Approximately 9,300-LF of dikes would also need to be refurbished every ten years as well.

- River Mile 26.0 to 24.0 Maintenance dredging would occur every ten years after the
  initial construction phase is completed. The hydraulically dredged material would be
  disposed of semi-confined within Wetland Site 14A. A 100-FT wide pipeline access
  corridor would be required. Approximately 13,00-LF of dikes would also need to be refurbished every ten years as well.
- River Mile 24.0 to 22.0 Maintenance dredging would start five years after the construction of this reach has been completed. The hydraulic dredging would occur every five years after the initial maintenance year. The dredged material would be disposed of in semi-confined Wetland Sites 15 and 15A. Ten years after initial construction, 2,450-LF (Site 15) and 4,800-LF (Site 15A) of earthen dikes would be re-furbished, and this would continue every ten years after. A 100-FT wide pipeline access corridor would be required for the disposal of the material each year the reach is dredged.
- River Mile 22.0 to 20.0 Maintenance dredging would start five years after the construction of this reach has been completed. The hydraulic dredging would occur every five years after the first year. The dredged material would be disposed of unconfined within Wetland Site 16 and confined within Wetland Site 15A. Ten years after initial construction, 4,800-LF of earthen dikes would be re-furbished within Site 15A, and this would continue every ten years after. A 100-FT wide pipeline access corridor would be required for the disposal of the material each year the reach is dredged.
- River Mile 20.0 to 18.0 Maintenance dredging would occur every ten years after the
  initial construction phase is completed. The hydraulically dredged material would be
  disposed of confined within Wetland Sites 19C and 19D. A 100-FT wide pipeline access
  corridor would be required. Approximately 1,300-LF of dikes would need to be refurbished every ten years for each disposal site.
- River Mile 18.0 to 16.0 Maintenance dredging would occur every ten years after the initial construction phase for this reach is completed. The hydraulically dredged material would be disposed of confined within Wetland Sites 20C and 21. A 100-FT wide pipeline access corridor would be required. Ten years after initial construction, 2,000-LF (Site 20C) and 3,850-LF (Site 21) of earthen dikes would be re-furbished, and this would continue every ten years after.
- River Mile 16.0 to 13.0 Maintenance dredging would occur every ten years after the initial construction phase is completed. The hydraulically dredged material would be disposed of unconfined within Wetland Site 21. A 100-FT wide pipeline access corridor would be required. Approximately 3,850-LF of dikes would also need to be re-furbished every ten years as well.
- River Mile 13.0 to 11.0 Maintenance dredging would occur every ten years after the initial construction phase for this reach is completed. The hydraulically dredged material would be disposed of within Wetland Sites 24 and 21. A 100-FT wide pipeline access corridor would be required in order to dispose of the dredged material. Ten years after initial construction, 4,100-LF (Site 24) and 3,850-LF (Site 21) of earthen dikes would be re-furbished, and this would continue every ten years after.
- River Mile 11.0 to 8.0 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed

of via Single Point Discharge (SPD) at site SPD 8.8, a minimum of 1,000 feet west of the channel.

- River Mile 8.0 to 6.0 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed of via Single Point Discharge at site SPD 7, a minimum of 1,000 feet west of the channel.
- River Mile 6.0 to 4.0 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed of via Single Point Discharge at site SPD 5, a minimum of 1,000 feet west of the channel.
- River Mile 4.0 to 2.0 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed of via Single Point Discharge at site SPD 3, a minimum of 1,000 feet west of the channel.
- River Mile 2.0 to 0.0 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed of via Single Point Discharge at site SPD 1, a minimum of 1,000 feet west of the channel.
- River Mile 0.0 to -3.7 Maintenance dredging would occur every two years after the initial construction is completed. The hydraulically dredged material would be disposed of via Single Point Discharge at sites SPD -1.7 and -2.5, a minimum of 1,000 feet west of the channel.

## Maintenance Stone Placement:

- River Mile 27.6 to 27.4 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 1,900-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 26.4 to 25.9 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 5,320-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 25.9 to 24.1 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 21,300-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 23.7 to 22.4 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 11,820-TON of stone would be placed on the east bank of the canal each year maintenance is required.
- River Mile 22.2 to 22.1 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 1,960-TON of stone would be placed on the east bank of the canal each year maintenance is required.
- River Mile 19.2 to 17.5 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 19,900-TON of stone would be placed on the east bank of the canal each year maintenance is required.

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- River Mile 19.1 to 17.8 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 3,640-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 17.7 to 16.7 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 13,490-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 16.9 to 13.3 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 42,600-TON of stone would be placed on the east bank of the canal each year maintenance is required.
- River Mile 15.6 to 14.0 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 18,900-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 13.2 to 11.9 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 15,180-TON of stone would be placed on the west bank of the canal each year maintenance is required.
- River Mile 12.7 to 12.3 Maintenance of the stone dikes would be required every ten years after initial construction has ended. 5,420-TON of stone would be placed on the east bank of the canal each year maintenance is required.

The operation and maintenance cost estimate was developed using MII estimating software in accordance with guidance contained in ER 1110-2-1302, Civil Works Cost Engineering. The MCACES operation and maintenance cost estimate does not include project markups or functional costs. See Appendix F for the MCACES output report.

## 14. Total Project Cost Summary

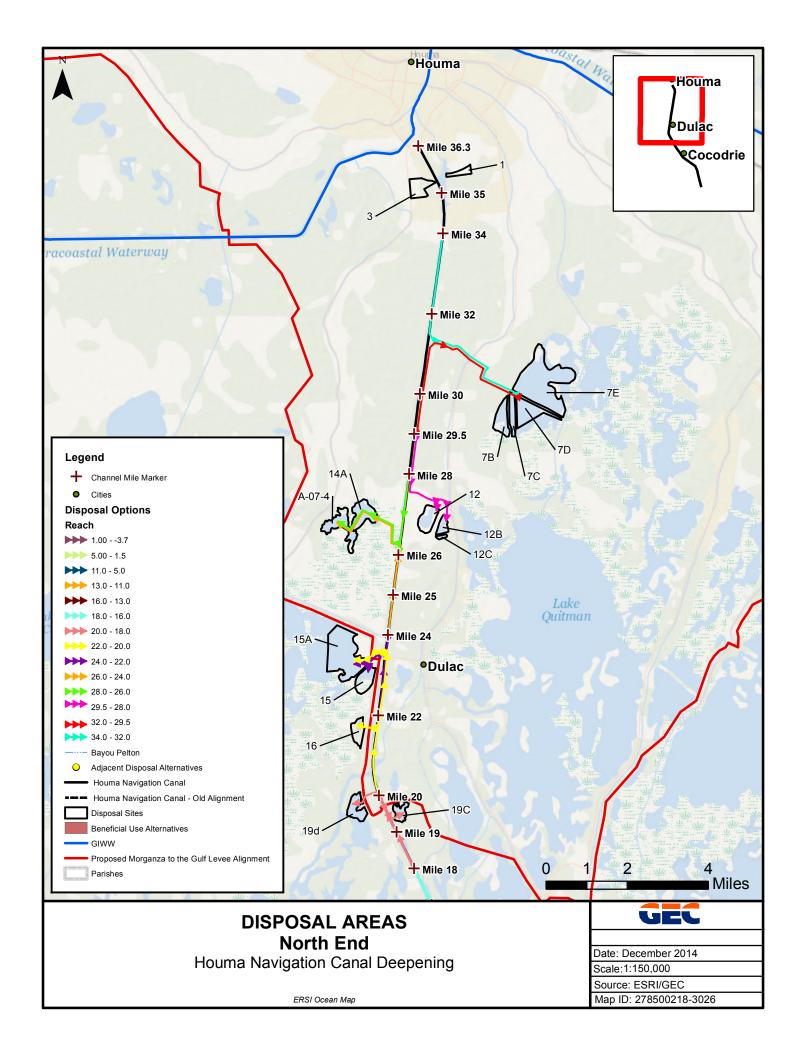
Two separate Total Project Cost Summaries (TPCS) have been developed, one for the construction cost estimate and one for the operation and maintenance cost estimate. These TPCSs were prepared using a Cost Dx provided excel spreadsheet which incorporates the construction cost estimates, project mark-ups, and the functional costs.

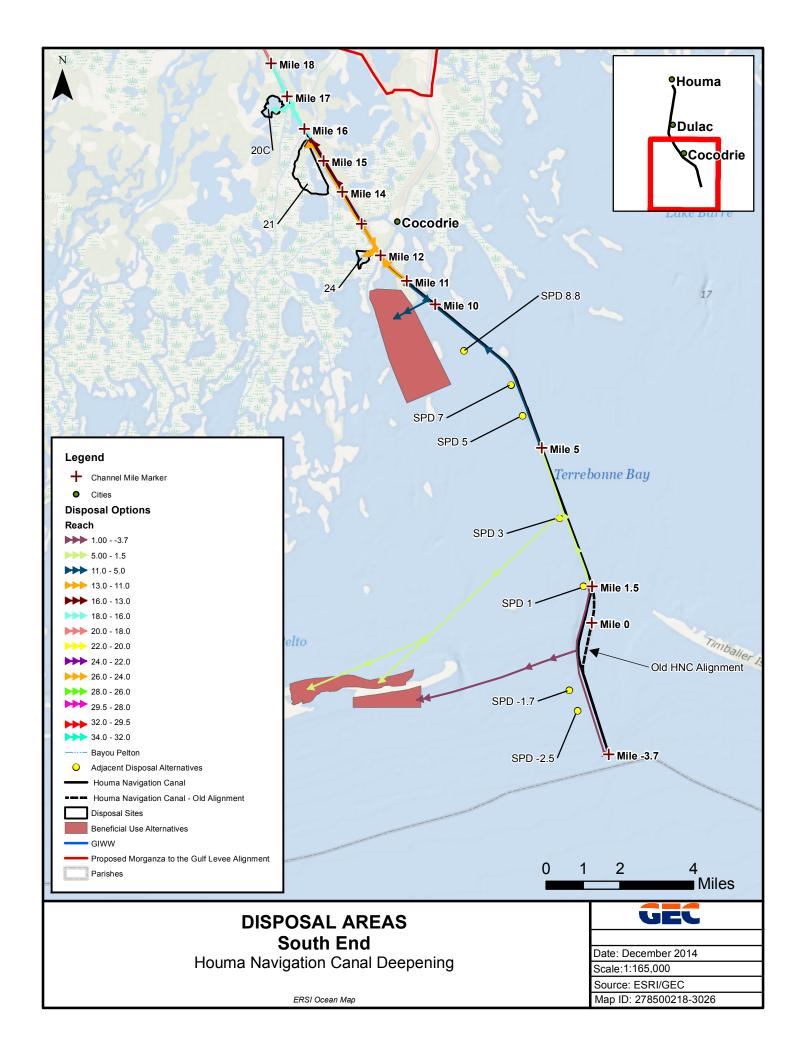
#### 15. References

- U.S. Army Corps of Engineers, 1993, Engineering and Design Cost Engineering Policy and General Requirements, Engineering Regulation 1110-1-1300, Department of the Army, Washington D.C., 26 March 1993.
- U.S. Army Corps of Engineers, 1999, Engineering and Design For Civil Works Projects, Engineering Regulation 1110-2-1150, Department of the Army, Washington D.C., 31 August 1999.
- U.S. Army Corps of Engineers, 2008a, *Civil Works Cost Engineering, Engineering Regulation* 1110-2-1302, Department of the Army, Washington D.C., 15 September 2008.
- U.S. Army Corps of Engineers, 2008b, Construction Cost Estimating Guide For Civil Works, Engineering Technical Letter 1110-2-573, Department of the Army, Washington D.C., 30 September 2008.
- U.S. Army Corps of Engineers, 2009, Civil Works Construction Cost Index System, Engineering Manual 1110-2-1304, Department of the Army, Washington D.C., 31 March 2009.

# APPENDIX A

Site Plan





# APPENDIX B

# **Overall Quantities**

														Channel R	each											
		26.2.24.0	34.0 -	32.0 - 2	29.5 -	28.0 -	27.6 -	26.4 -	26.0 - 25.9 -	24.0 -	23.7 -	22.2 -	22.0 - 20.0			18.0 - 2	17.7 - 16	9 - 16.0 -	- 15.6 -	13.1 -	13.0 -	12.7 -	11.0 - 8.0 -	6.0 - 4.0 -	2.0 - 0.0 -	
		36.3 -34.0	32.0	29.5	28.0	26.0	27.4		24.0 24.1	22.0	22.4	22.1	20.0 18.0	17.5	17.8	16.0	13	3 13.0	14.0	11.9	11.0	12.3	8.0 6.0	6.0 - 4.0 - 2.0	0.0 (3.7)	
Cost Item	UOM													Construc	tion											Total
Mobilization/Demobilization																										
Prelay Submerged Pipeline																										
Prelay Submerged Pipeline	LF						3,000	)									2,000						1,500	1,500	1,50	0 9,500
Submergeed Pipeline Standby Costs	DAY						2										1						1	1	1	- 6
Warning Floats	EA						1										1						1	1	1	
Prelay Shore Pipeline																										
Prelay Shore Pipeline	LF						1,500	)									2,500									4,000
Shore Pipeline Standby Costs	DAY						3										5									8
Deck Barge	EA						6										5									11
Pickup Submerged Pipeline																										
Pickup Submerged Pipeline	LF						9,000	)									9,000						9,000	9,000	9,00	
Submerged Pipeline Stanby Cost	DAY						6										6						6	6	6	30
Warning Floats	EA						1										1						1	1	1	
Pickup Shore Pipeline																										
Pickup Shore Pipeline	LF			•			1,000	)									3,000									4,000
Shore Pipeline Standby Costs	DAY						2										6									
Deck Barge	DAY						4										6									10
Tug Rental	HR		· · · · · · · · · · · · · · · · · · ·				979			·	·	·			·	·	1,306	·	·	·			979	979	979	
Tug Rental	HR						326										653						326	326	326	1,957
Dredge Pipeline Crew	DAY						8		·			<u> </u>					8		<u> </u>				8	8	8	39
Crew Boat	HR						94										94						94	94	94	
Survey Boat	HR						94										94						94	94	94	468
Quarter Boat	DAY						8										8						8	8	8	39
Trailering/Delivery of Land Based Equipment	EA						1										1						1	1	1	ŗ
Rock/Fabrick/Flotation Crew	DAY						10										20									30
Marsh Cranes	EA						2										2									
Welded Pipeline (7E)																										
Welding Crew																										
2 Crew Welding Team	HR						72																			72
Trailering per Load	EA						4																			L
Delivering/Prelaying/Removing Shore Pipeline																										
Prelay/Pickup Shore Pipe	LF		•		•		2,500				•	•														2,500
Trailering per Load	EA						13																			13
Truck Loading/Unloading	EA						50																			50
Shore Pipeline Stanby Cost	DAY						2																			7
Welding Shore Pipeline																										
2 Crew Welding Team	LF						2,500																			2,500
Shore Pipeline Stanby Cost	DAY						3																			3
Cutting Shore Pipeline																										
1 Welder Crew	LF			-			2,500	)			-															2,500
Shore Pipeline Stanby Cost	DAY						1							1	1	1 1					1					1
Shore Pipeline Crew	1													1	1	1 1					1					
Shore Crew	DAY						8			•				1	1	1 1					1					3
Trailering per Load	EA						4																			
Jack and Bore Under HWY 57																										
Horizontal Boring	LF		1					300	<del></del>					1	1	1 1					1					300
Earthwork	CY							884						1	1	1 1					1					884
Land Surveying	HR							20													1					20
Pipeline Dredging															1	1 1						1				
Marine Survey	HR	110	40		110								1	1		. L	110	l l	1	1		1	110	110	110	700
Dredging Monthly Cost	МО	2.8	1.1		2.8		1										2.6					1	1.5	1.5	2.6	
Excavation and Disposal - 27 in. Discharge	CY	325,000	390,0		-		1 L	1	.,040,000	1	1	1					1,150,00	)				1	1,894,500	1,665,00		
Disposal Areas	Ť	-,	1		I												, , ,,,,,,					1	, , , , , , , , ,	, 2 2,30	,==3)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dike Construction	CY		91,35	56	10,592		1	47,625	<del>                                     </del>	16,219	9			1	<u> </u>	1 1		25,48	87		27,14	2				318,421
Land Surveying	HR		83		10			134		15,215	_			+	<u> </u>				23		2.					289
Marsh Crane Crew	HR		337		39			545		60				+	<u> </u>			11			12					1,220
Quarter Bardge	DAY		28		3			45			5			†	1	† †			10		10					102
Bank Stabilization					3		1	.5			-			1	1	1 1		-			1	1				102
		L	11				1		LL				I		1							1	1			

														С	hannel F	Reach													
		36.3 -34.0	34.0 -	32.0	- 29.5 -	28.0 -	27.6 -	26.4 -	26.0 - 25.9 -	24.0 -	23.7 -	22.2 -	22.0 -	20.0 -	19.2 -	19.1 -	18.0 -	17.7 -	16.9 -	16.0 - 15.6 -	13.1 -	13.0 -	12.7 -	11.0 -	8.0 - 6.0	0 - 4.0 -	2.0 - 0	).0 -	
		36.3 -34.0	32.0	29.5	28.0	26.0	27.4	25.9	24.0 24.1	22.0	22.4	22.1	20.0	18.0	17.5	17.8	16.0	16.7	13.3	13.0 14.0	11.9	11.0	12.3	8.0	6.0 4.	.0 2.0	0.0 (	3.7)	
Cost Item	UON	И												(	Construc	tion													Total
Foreshore Protection																													
Stone Placement/Material/Delivery	TON						1,900	26,600	21,300		59,100	9,800			99,500	18,200	0	67,400	213,000	94,50	75,90	00	27,100						714,300
Geotextile																													
Fabric Placement/Material/Delivery	SY							12,800			28,500	4,700			47,900	83,308	8	32,500	102,600	45,50	36,60	00	13,000						407,408
Flotation Channel																													
Excavation	BCY						21,042	47,428	161,990	)	109,218	12,191			135,604	29,893	3	91,516	320,640	144,45	5 109,21	18	29,893					•	1,213,088
	Total																												

																	hannel Reach												$\overline{}$
		36.3 - 20.0; 36.3 -							26.4 - 20	6.0 - 2					22.2 -	20.0 - 11.0; 2	0.0 - 19.2 -	19.1 - 1	8.0 - 16.0	) - 17.7 -	16.9 -		13.0 -	12.7 -	11.0 -	80-60	60-40 40-	2.0   2.0 - 0.0   0.0 - (3.7)	
Cook No.		11.0 - 0.0 20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24	4.0 2	1.1	22.0	20.0	22.4	22.1	11.0 - 0.0	8.0 17.5 O&M	17.8 1	6.0 13.0	16.7	13.3	14.0 11.9	11.0	12.3	8.0	0.0 - 0.0	0.0 - 4.0   4.0 -	(3.7)	Total
Cost Item	UOM																Contract 1												Total
Mobilization/Demobilization																													
Prelay Submerged Pipeline																													
Prelay Submerged Pipeline	LF	7,800																											7,800
Submergeed Pipeline Standby Costs Warning Floats	DAY EA	5.2	+		+																						<del>                                     </del>		5 1
Prelay Shore Pipeline	LA	1			1																								
Prelay Shore Pipeline	LF	1,500																											1,500
Shore Pipeline Standby Costs	DAY	3.0			1																								3
Deck Barge Pickup Submerged Pipeline	EA	3			-					-										_									3
Pickup Submerged Pipeline	LF	9,000																											9,000
Submerged Pipeline Stanby Cost	DAY	6.0																											6
Warning Floats	EA	1																											1
Pickup Shore Pipeline		2.000			-																				-				2,000
Pickup Shore Pipeline Shore Pipeline Standby Costs	LF DAY	2,000 4.0			1																								2,000
Deck Barge	DAY	8.0			<u> </u>																				†				8
Tug Rental	HR	1,306																											1,306
Tug Rental	HR	653		1	1	<del>                                     </del>												$\perp$							1				653
Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned)	DAY HR	7.8 93.6		1	+	<del>                                     </del>												+						1	1			+	8 94
Crew Boat (Hourly Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	374.4		1	+	$\vdash$			+									+ +	-				-	+	+			+ +	374
Survey Boat	HR	93.6																						L					94
Quarter Boat	DAY	7.8																											8
Trailering/Delivery of Land Based Equipment	EA	1			-																				-				1
Rock/Fabrick/Flotation Crew  Marsh Cranes (Fully Operated Rental)	DAY HR	120																										+	120
Marsh Cranes (Delivery Fee)	EA	2																											2
Pipeline Dredging																													
Marine Survey	HR		6.9									6.0	6.0												9.0	6.0			51.9
Dredging Monthly Cost  Excavation and Disposal - 27 in. Discharge	MO CY		0.33	1	-					-		0.29 109,600	0.29							_					0.46	0.31	0.31 0.3 267,400 267,		2.6 1,762,900
Disposal Areas	Ci		103,000	1								109,000	103,000												374,000	237,900	207,400 207,	207,400	1,702,900
Dike Construction	CY											16,219																	16,219
Land Surveying	HR											14.7																	15
Marsh Crane Crew	HR DAY																												
Quarter Bardge	Total																												+
			ı	ı	1	1				1						<u> </u>	Contract 2			<u> </u>		Į.	ı			1	1		_
Mobilization/Demobilization																													
Prelay Submerged Pipeline	1.5				-																				-			1.50	0 1.500
Prelay Submerged Pipeline Submergeed Pipeline Standby Costs	LF DAY		+		+																						<del>                                     </del>	1,500	
Warning Floats	EA				1																							1.0	1
Pickup Submerged Pipeline																													
Pickup Submerged Pipeline	LF																											5,000	
Submerged Pipeline Stanby Cost Warning Floats	DAY EA			1	1	<del>                                     </del>			+							1									1			3.3	3
Tug Rental	HR				+	<del>                                     </del>			+									+ +		+				+	-			979.2	
Tug Rental	HR				1																				1			326.4	
Dredge Pipeline Crew	DAY																											7.8	8
Crew Boat (Hourly Contractor Owned)	HR			-	1													+							1			371	4 274
Crew Boat (24-HR Fully Operated Rental) Survey Boat	HR HR		-	-	-	<del>                                     </del>										+		+		_			-	+	+			93.6	
Quarter Boat	DAY			1	†											<del>                                     </del>		+		+				1				7.8	
Trailering/Delivery of Land Based Equipment	EA																											1	1
Rock/Fabrick/Flotation Crew	DAY								-									$\bot$											$\bot$
Marsh Cranes (Fully Operated Rental)  Marsh Cranes (Delivery Fee)	HR EA			1	+	<del>                                     </del>										<del>                                     </del>		+							1			+	+
Pipeline Dredging	EA	<del>                                     </del>		1	+	$\vdash$			+									+ +	-				-	+	+			+ +	+
Marine Survey	HR																											110.0	0 110
Dredging Monthly Cost	МО																											1.58	
Excavation and Disposal - 27 in. Discharge	CY			-					-												<b> </b>				1			580,00	00 580,000
	Total				1	<u> </u>									[		Contract 3				]				1				+
Mobilization/Demobilization		<del>                                     </del>			1	1 1										<u> </u>	Contract 3												+
Prelay Submerged Pipeline																													
Prelay Submerged Pipeline	LF					$\Box$			-									$+\Box$							1		1,500		1,500
Submergeed Pipeline Standby Costs	DAY																										1.0		1

	_	1	_															Charanal Basak														
		36.3 - 20.0	.0: 36.3	3 - 36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 -	26.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	Channel Reach 20.0 - 19.2		3.0 - 16.	0 -	17.7 - 16.	) - 15	5.6 - 1	3.1 -	13.0 -	12.7 -	11.0 -			.0 -	
		11.0 - 0.0			32.0	29.5	28.0	26.0		25.9			22.0		22.4	22.1	11.0 - 0.0	18.0 17.5				16.7 13.				11.0		8.0	8.0 - 6.0	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (5	3.7)	i
Cost Item	UOM			•	•	•	•	•	•	•	•	•	•			•		0&M		•	•	•	•									Total
Warning Floats	EA																													1		1
Pickup Submerged Pipeline																																ļ
Pickup Submerged Pipeline	LF																													9,000		9,000
Submerged Pipeline Stanby Cost	DAY								1	1																				6.0		6
Warning Floats Tug Rental	EA HR		_			-			+	-	-	-	-	-		-														979.2		1 979
Tug Rental	HR					-			+	-			+											-						326.4		326
Dredge Pipeline Crew	DAY					1					1	1																		7.8		8
Crew Boat (Hourly Contractor Owned)	HR																															1
Crew Boat (24-HR Fully Operated Rental)	HR																													374.4		374
Survey Boat	HR																													93.6		94
	DAY																													7.8		8
Trailering/Delivery of Land Based Equipment	EA					-				-			-																1 1	1		1
Pipeline Dredging	LID					+					-	-																9.0	6.0	6.0 6.0 6.0		33
Marine Survey Dredging Monthly Cost	HR MO																											0.46	0.31	0.31 0.31 0.31		2
Excavation and Disposal - 27 in. Discharge	CY					+			+	1														+						267,400 267,400 267,400		1,434,100
Total																												37 1,000	237,300	207/100 207/100 207/100		2) 10 1)200
				·			1						1					Contract 4		<u> </u>		<u> </u>								<u> </u>		1
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
Prelay Submerged Pipeline	LF																														1,500	1,500
Submergeed Pipeline Standby Costs	DAY																														1.0	1
Warning Floats	EA																														1	1
Pickup Submerged Pipeline	LF		_			-			+	-	-	-	-	-		-															5,000	5,000
Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	DAY					+						+																			3.3	3,000
Warning Floats	EA					1						1																			1	1
Tug Rental	HR																														979.2	979
Tug Rental	HR																														326.4	326
Dredge Pipeline Crew	DAY																														7.8	8
Crew Boat (Hourly Contractor Owned)	HR																															<b>.</b>
Crew Boat (24-HR Fully Operated Rental)	HR																														374.4	374
Survey Boat	HR																														93.6	94
Quarter Boat Trailering/Delivery of Land Based Equipment	DAY EA		_			-			+	-	-	-	-	-		-															7.8	8
Pipeline Dredging	EA					+						+																			1	1
Marine Survey	HR																														110.0	110
Dredging Monthly Cost	МО																														1.58	2
Excavation and Disposal - 27 in. Discharge	CY																													5	80,000	580,000
Total																																
										_		_						Contract 5														
Mobilization/Demobilization																																-
Prelay Submerged Pipeline						+					1																			1.500		1.500
Prelay Submerged Pipeline	LF DAY								1	1																				1,500		1,500
Submergeed Pipeline Standby Costs Warning Floats	EA					+			+	1	1													-						1.0		1
Pickup Submerged Pipeline	LA	+	+	_	+	+	-	-	+	<del>                                     </del>	1	+	+	+ +		<del>                                     </del>			+					$\rightarrow$			1			<u> </u>	1	
Pickup Submerged Pipeline	LF																												!!	9,000		9,000
Submerged Pipeline Stanby Cost	DAY																													6.0		6
Warning Floats	EA																													1		1
Tug Rental	HR																													979.2		979
Tug Rental	HR																													326.4		326
	DAY					+					1																		1 1	7.8		8
Crew Boat (Hourly Contractor Owned)	HR																													274.4		274
Crew Boat (24-HR Fully Operated Rental)	HR HR		_			-			+	-	-	-	-	-		-														374.4 93.6		374 94
Survey Boat Quarter Boat	DAY					+						+																		7.8		8
Trailering/Delivery of Land Based Equipment	EA																													1		1
Pipeline Dredging																																1
Marine Survey	HR																											9.0	6.0	6.0 6.0 6.0		33
,	МО																											0.46	0.31	0.31 0.31 0.31		2
Excavation and Disposal - 27 in. Discharge	CY													$\bot$													lacksquare	374,000	257,900	267,400 267,400 267,400		1,434,100
Total											]																					-
		1							_	_	1	1						Contract 6			-		-									_
Mobilization/Demobilization	_	1	+	_	+	+				-	1	+	-	+ -		<b>├</b>			+								1					
Prelay Submerged Pipeline	LF		2.0	000	-	+			+	1	1	+		+					+++								<del>                                     </del>				3,000	6,000
Prelay Submerged Pipeline Submergeed Pipeline Standby Costs	DAY			2.0	+	+			+	1	+	+	1	+ +		1			+								<del>                                     </del>				2.0	4
Warning Floats	EA			1	1	+			1	<del>                                     </del>	1	+	1	1		1											<del>                                     </del>				1	2
	1-11			<del>-                                     </del>		1			_1	1	1					1											1		1	<u> </u>	4	

																Channel Reach	1										$\Box$
									26.4 - 26	5.0 -	25.9 -					20.0 - 11.0; 20.0 - 19.2	- 19.1 -	18.0 - 1		7 - 16.9 -		13.0 -		11.0 -	80-60	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (3.7)	
			34.0	32.0	29.5	28.0	26.0	27.4	25.9 24	1.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0   18.0   17.5 O&M	17.8	16.0	13.0 16.	7 13.3	14.0 11.9	11.0	12.3	8.0	0.0 0.0	(3.7)	T-4-1
Cost Item Prelay Shore Pipeline	UOM		T	1	1		1	1				1	1			U&IVI		T T					1	1			Total
Prelay Shore Pipeline	LF	1,500																				1				1,500	3,000
Shore Pipeline Standby Costs	DAY	3.0																								3.0	6
Deck Barge	EA	3																								3	6
Pickup Submerged Pipeline																											40.000
Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	LF DAY	9,000	-	-			-															-	-		-	9,000	18,000 12
Warning Floats	EA	1																								1	2
Pickup Shore Pipeline																											1
Pickup Shore Pipeline	LF	1,000																								1,000	2,000
Shore Pipeline Standby Costs	DAY	2.0																								2.0	4
Deck Barge	DAY HR	2.0 979.2																								2.0 979.2	4 1,958
Tug Rental Tug Rental	HR	326.4																		+	+	1				326.4	
Dredge Pipeline Crew (Monthly)	DAY	7.8																								7.8	16
Shore Crew for Pipeline Construction/Deconstruction	DAY	7.8																								187.2	195
Crew Boat (Hourly Contractor Owned)	HR	93.6																									94
Crew Boat (24-HR Fully Operated Rental)	HR	02.5	<del>                                     </del>	1	<u> </u>	-	1						<u> </u>	<u> </u>				1			+		-	-	1		407
Survey Boat Quarter Boat	HR DAY	93.6 7.8	<del>                                     </del>	1	-	<del>                                     </del>	1											+		-	+	-	-	-	+	93.6	187 16
Trailering/Delivery of Land Based Equipment	EA	1	+	<del>                                     </del>	1	<b> </b>	<del>                                     </del>											1 1			+ +	+		1	+	1	2
Rock/Fabrick/Flotation Crew	DAY	10.0	1	1	1		1						1	1				1 1			1				1		10
Marsh Cranes (Fully Operated Rental)	HR	120									_																120
Marsh Cranes (Delivery Fee)	EA	2																									2
Welded Pipeline (7E)			-	-			-													_		-					
Welding Crew 2 Crew Welding Team	HR	72	-	-			-															-	-		-		72
Trailering per Load	EA	4																									4
Delivering/Prelaying/Removing Shore Pipeline																											+
Prelay/Pickup Shore Pipe	LF	2,500																									2,500
Trailering per Load	EA	13																									13
Truck Loading/Unloading	EA	50	-																			-					50
Shore Pipeline Stanby Cost Welding Shore Pipeline	DAY	2.0																		+	+	+				<del>                                     </del>	2
2 Crew Welding Team	LF	2,500																									2,500
Shore Pipeline Stanby Cost	DAY	2.8																									3
Cutting Shore Pipeline																											
1 Welder Crew	LF	2,500																									2,500
Shore Pipeline Stanby Cost Shore Pipeline Crew	DAY	1.4	-	-			-															-	-		-		1
Shore Crew	DAY	7.8	+																								8
Trailering per Load	EA	4																									4
Jack and Bore Under HWY 57																											
Horizontal Boring	LF	300																				1					300
Earthwork	CY HR	40	1	1	<b> </b>	<u> </u>	1						<b> </b>	<b> </b>				1					-	-	-		40
Land Surveying Pipeline Dredging	нк	20	+	1	1	-	1						1	1				1			+ +	+	1	-	+		20
Marine Survey	HR		6.9	6.9	6.9	6.9	6.9			6.9		6.0	1	1		6.0					+ +	+		1	1	110.0	163
Dredging Monthly Cost	МО		0.33	0.44	0.45	0.36	0.41			0.41		0.29				0.31										1.58	5
Excavation and Disposal - 27 in. Discharge	CY		109,600	219,600	165,800	219,600	219,600		21	19,600		109,600				109,600						I				580,000	0 1,953,000
Disposal Areas			1		256	40.500	64 - 5 -			5.052		40.015	1	1								1					265 705
Dike Construction Land Surveying	CY HR		1		,356 3.1	9.6	61,566 56.0			78.2		16,219 14.7	-	-				+			+	+	-	-	+		265,793 242
Marsh Crane Crew	HR	+ + + -	+		3.1 37.1	39.1	227.2			317.6		59.9	<u> </u>	<u> </u>				+ +			+ +	+		+	+		981
Quarter Bardge	DAY		<u> </u>		8.1	3.3	18.9			26.5		5.0						1 1			1			1	1		82
Bank Stabilization											_																
Foreshore Protection																		$\bot$									
Stone Placement/Material/Delivery	TON		1	1	<b> </b>	<u> </u>	1	1,900	5,320		21,300		<b> </b>	11,820	1,960			1					-	-	-		42,300
Geotextile Fabric Placement/Material/Delivery	SY	<del>                                     </del>	+	1	<del> </del>		1						<b> </b>	<b> </b>				+ +			+ + -	+		-	+		+
Flotation Channel	31	<del>                                     </del>	+	+	<del>                                     </del>		+						<u> </u>	<u> </u>				+ +			+ +	+	+	1	+		+
Excavation	BCY		L					21,042	47,428		161,990			109,218	12,191							1	l		L		351,869
То	tal																										
																Contract 7											$\perp = $
Mobilization/Demobilization	_		1	1	<b> </b>	<u> </u>	1						<b> </b>	<b> </b>				1					-	-	-		
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF	<del>                                     </del>	+	1	1	-	1						1	1		3,000					+ +	+	1	-	1	1,500	4,500
Submergeed Pipeline Standby Costs	DAY		1	1			1									2.0		1			+ +	1	1	1		1.0	3
Warning Floats	EA		<u> </u>													1										1	2
Prelay Shore Pipeline																											

																	Channel Rea	ch									
			36.3 -	34.0 -	32.0 -	29.5 -			26.4 - 26.0							20.0 - 11.0;	20.0 - 19	.2 - 19.1	- 18.0 - 1	6.0 - 17.7 - 16.9				11.0 -	80-60	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   0.0 - (3.7)	
		11.0 - 0.0 20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24.0	24	4.1 2	2.0	20.0	22.4	22.1	11.0 - 0.0	18.0 17 O&M	.5 17.8	16.0	3.0 16.7 13.3	14.0 11.9	11.0	12.3	8.0	8.0 - 0.0	(3.7)	
Cost Item Prelay Shore Pipeline	UOM LF			1	1	I	1	1						1	1	3,000	U&IVI	1									<b>Total</b> 3,000
Shore Pipeline Standby Costs	DAY															6.0											6
Deck Barge	EA															6											6
Pickup Submerged Pipeline																											
Pickup Submerged Pipeline	LF DAY															6,000 4.0										9,000	15,000 10
Submerged Pipeline Stanby Cost Warning Floats	EA															1										1	2
Pickup Shore Pipeline	271															-											
Pickup Shore Pipeline	LF															2,000											2,000
Shore Pipeline Standby Costs	DAY															4.0											4
Deck Barge Tug Rental	DAY HR							1								4.0 979.2		-								979.2	1,958
Tug Rental	HR															326.4										326.4	653
Dredge Pipeline Crew	DAY															7.8										7.8	16
Crew Boat (Hourly Contractor Owned)	HR															93.6											94
Crew Boat (24-HR Fully Operated Rental)	HR															374.4										374.4	749
Survey Boat Quarter Boat	HR DAY															93.6 7.8										93.6 7.8	187 16
Trailering/Delivery of Land Based Equipment	EA		1	1	+		1	1					<del>                                     </del>		1	1.0			+ +	1 1	+ +					1	2
Rock/Fabrick/Flotation Crew	DAY															10											10
Marsh Cranes (Fully Operated Rental)	HR							igspace								120.0											120
Marsh Cranes (Delivery Fee)	EA		1	1			1	1								2			+ +								2
Pipeline Dredging  Marine Survey	HR		+	+			1	+ +		-+			<u> </u>				6.9	+	6.9	6.9		6.9		9.0	6.0	6.0 6.0 6.0	61
Dredging Monthly Cost	MO		1		1	1	1								1		0.34			0.55		0.34		0.46	0.31	0.31 0.31 0.31	3
Excavation and Disposal - 27 in. Discharge	CY																219,600		219,600	331,400		254,500		374,000	257,900	267,400 267,400 267,400	2,459,200
Disposal Areas																											
Dike Construction  Land Surveying	CY HR																8,606 7.8		13,240 12.0	25,487		27,142 24.7					74,475 68
Marsh Crane Crew	HR																78.2			231.7		24.7					677
Quarter Bardge	DAY																6.5		10.0	19.3		20.6					56
Bank Stabilization																											
Foreshore Protection																		2000 200	40	42 400 42 6	200 40 000 45 40	0	5 420				110 120
Stone Placement/Material/Delivery  Geotextile	TON																1	9,900 3,64	40	13,480 42,6	500 18,900 15,18	0	5,420				119,120
Fabric Placement/Material/Delivery	SY																										
Flotation Channel																											
Excavation	BCY																13	5,604 29,8	93	91,516 320,	640 253,506 89,17	8	29,893				950,230
	Total																Countries at C										
Mobilization/Demobilization					1		1	1							1		Contract 8										
Prelay Submerged Pipeline																											
Prelay Submerged Pipeline	LF																									1,5	500 1,500
Submergeed Pipeline Standby Costs	DAY																									1	
Warning Floats	EA		1		1	1	1	1							1	1			+								1 1
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF		1		1		1	1							1	1		-	+ +	+ +	+ +					5.0	000 5,000
Submerged Pipeline Stanby Cost	DAY		1		1	1	1	† †							1			+	+ +	1 1	+ +					3	
Warning Floats	EA																										
Tug Rental	HR			1				1 1											$\perp$								9.2 979
Tug Rental  Dredge Pipeline Crew	HR DAY		+	-	-	1	-			_			-		-				+			1				32	6.4 326 .8 8
Crew Boat (Hourly Contractor Owned)	HR		+		1		1								1			+	+ +	<del>                                      </del>	+ +						0
Crew Boat (24-HR Fully Operated Rental)	HR																									37	4.4 374
Survey Boat	HR																										3.6 94
Quarter Boat	DAY		1		1	1	<del> </del>								1	<u> </u>			+		$\perp$					7	
Trailering/Delivery of Land Based Equipment Pipeline Dredging	EA		1	1			-	+ +		-			-				+ +	-	+ +	+ +	+ +						1 1
Marine Survey	HR		1					† †											+ +		+ +					11	0.0 110
Dredging Monthly Cost	МО																									1.	58 2
Excavation and Disposal - 27 in. Discharge	CY																									580	,000 580,000
	Total				1		1						<u> </u>		1		6										
Mobilization/Demobilization							1	T T			1		1				Contract 9	<u> </u>									
Prelay Submerged Pipeline			+		1		1								1			+	+ +	+++	+ +						
Prelay Submerged Pipeline	LF		<u> </u>	<u> </u>																		<u> </u>				1,500	1,500
Submergeed Pipeline Standby Costs	DAY																									1.0	1
Warning Floats	EA		1	1			<u> </u>	1													$\perp$					1	1
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF		+	-	-	1	-			_			-		-				+			1			<u> </u>	9,000	9,000
rickup Subinergeu Pipeline	LF	I I	1		1			11					1	<u> </u>	1	l .							<u> </u>			3,000	9,000

	1	ı	1														Channel	Reach															
		36.3 - 20.0	); 36.3 -	36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 26.0	25.9	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	20.0 -		19.1 -	18.0 -	16.0 -	17.7 - 1	6.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -	00.60	60.40	40.20	20.00	0 -
		11.0 - 0.0	20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0			19.1 - 17.8	16.0	13.0	16.7 1	3.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0	2.0 - 0.0 0. (3	
Cost Item	UOM			1	1	1	1						1	1	1	1	0&1	М	1	1			1			1	1	1				1	Total
Submerged Pipeline Stanby Cost	DAY														-															6.0			6
Warning Floats Tug Rental	EA HR			+											1				1									1		979.2			979
Tug Rental	HR														-												+			326.4			326
Dredge Pipeline Crew	DAY																													7.8			8
Crew Boat (Hourly Contractor Owned)	HR																																
Crew Boat (24-HR Fully Operated Rental)	HR																												•	374.4			374
Survey Boat	HR																													93.6			94
Quarter Boat	DAY																													7.8			8
Trailering/Delivery of Land Based Equipment	EA																										-		1	1			1
Pipeline Dredging	HR			1															-						1			9.0	6.0	6.0	6.0	6.0	33
Marine Survey  Dredging Monthly Cost	MO			-																								0.46	0.31	0.31	0.31	0.31	2
Excavation and Disposal - 27 in. Discharge	CY																												257,900				1,434,10
	otal																											,					
											,						Contra	ct 10	1													*	
Mobilization/Demobilization																																	
Prelay Submerged Pipeline																																	
Prelay Submerged Pipeline	LF																	1															1,500 1,500
Submergeed Pipeline Standby Costs	DAY	ļ	_	1	1	1	<b>_</b>					_	<b> </b>					<del> </del>	1			$\vdash$					1	ļ	-				1.0 1
Warning Floats	EA			1	1	1	1	-	1				1					1	1			$\vdash$						1	+				1 1
Pickup Submerged Pipeline	LF			1	1	1		-	-				<del>                                     </del>				-	1	1	-		+						1	+				5,000 5,000
Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	DAY			1	+	+	1	<del>                                     </del>		+			+		1			+	+			+ +					+-	+	+				3.3 3
Warning Floats	EA			1	1	1		<u> </u>		<del>-  </del>			<u> </u>		1			1	1			+ +					+	1	<del>                                     </del>				1 1
Tug Rental	HR																																979.2 979
Tug Rental	HR																																326.4 326
Dredge Pipeline Crew	DAY																																7.8 8
Crew Boat (Hourly Contractor Owned)	HR																																
Crew Boat (24-HR Fully Operated Rental)	HR		_	1																								1					374.4 374
Survey Boat	HR DAY																										-						93.6 94
Quarter Boat Trailering/Delivery of Land Based Equipment	EA			+											1				1									1					7.8 8 1 1
Pipeline Dredging	EA																																
Marine Survey	HR																																110.0 110
Dredging Monthly Cost	МО																																1.58 2
Excavation and Disposal - 27 in. Discharge	CY																															5	80,000 580,000
To	otal																																
Markillandian /Danashillandian					1	1	1							1			Contra	ct 11	1						1	1	1	1					
Mobilization/Demobilization Prelay Submerged Pipeline																																	
Prelay Submerged Pipeline	LF	7,800																										1					7,800
Submergeed Pipeline Standby Costs	DAY	5.2																															5
Warning Floats	EA	1																															1
Prelay Shore Pipeline																																	
Prelay Shore Pipeline	LF	1,500							$oxed{oxed}$				<u> </u>					1				<b>   </b>											1,500
Shore Pipeline Standby Costs	DAY	3.0	_	1	1	1	<b>_</b>					_	<b> </b>					<del> </del>	1			$\vdash$					1	ļ	-				3
Deck Barge Pickup Submerged Pipeline	EA	3	-	1	-	-	-	-	$\vdash$		-		-	-	-			+	1	+		$\vdash$			-		+	-	<del>                                     </del>				3
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF	9,000		1	+	+	1	<del>                                     </del>		+			+		1			+	+			+ +					+-	+	+				9,000
Submerged Pipeline Stanby Cost	DAY	6.0		1			1	1					1		<u> </u>			1	1								+	1	1				6
Warning Floats	EA	1		1	1	1		1							1			1	1								1	1	1				1
Pickup Shore Pipeline																																	
Pickup Shore Pipeline	LF	1,000																			-							ļ					1,000
Shore Pipeline Standby Costs	DAY	2.0		1	ļ	ļ							<u> </u>					1	1			$\perp$			<u> </u>			1	1				2
Deck Barge	DAY	2.0	_	1	1	1	<b>_</b>					_	<b> </b>					<del> </del>	1			$\vdash$					1	ļ	-				2
Tug Rental	HR	1,306		1	1	1	1	1	$\vdash$				1	-	1			1	1	1		+ +					+	1	+				1,306
Tug Rental  Dredge Pipeline Crew	HR DAY	653 7.8		1	1	1		1	$\vdash$	-			+		1			1	+			+ +					+	1	+				653 8
Crew Boat (Hourly Contractor Owned)	HR	93.6		1			<del>                                     </del>	<u> </u>			-		+		<del>                                     </del>			1	1	+		+ +					+	1	+				94
Crew Boat (Hourly Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	374.4		1			1	1					1		<u> </u>			1	1								+	1	1				374
Survey Boat	HR	93.6		1	1	1									1		1	1	1								1	1	1				94
Quarter Boat	DAY	7.8																															8
Trailering/Delivery of Land Based Equipment	EA	1																			•												1
Rock/Fabrick/Flotation Crew	DAY																	1															
Marsh Cranes (Fully Operated Rental)	HR	120	-	1	1	1	1	1					<del>                                     </del>		1			<del>                                     </del>	1			$\vdash$					1	1	1				120
Marsh Cranes (Delivery Fee)	EA	2		1	1	1	1	-					1					1	1	-		$\vdash$					+	1	+				2
Pipeline Dredging  Marine Survey	HR	1	-	6.9	-	-	-	-	$\vdash$		-	6.0	6.0	-	-			+	1	+		$\vdash$			-		+	9.0	6.0	6.0	6.0	6.0	52
Dredging Monthly Cost	MO	1		0.33	<del>                                     </del>	<del>                                     </del>		1	<del>                                     </del>			0.29	0.29		<del>                                     </del>		<del>                                     </del>	+	+			+ +					+	0.46		0.31		0.31	3
Diedging Monthly COSt	IVIU	1		0.33	1	1	1	1				0.23	0.23	l .	ı	ĺ	l	1	1	1		<u> </u>			1	Ī	1	0.40	0.51	0.51	0.51	0.01	ى

																	hannel Reach															
		36.3 - 20.0; 36.3 -	36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 20	6.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0; 2		19.1 -	18.0 -	16.0 -	17.7 - 16	.9 - 15.6	13.1 -	13.0 -	12.7 -	11.0 -	0.0	6060	40 40 3	0 20 00 0	0.0 -	
		11.0 - 0.0 20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24	4.0	24.1			22.4	22.1		17.5		16.0	13.0	16.7 13	.3 14.0	11.9	11.0	12.3	8.0	8.0 - 0	6.0 6.0	4.0 - 2	.0 2.0 - 0.0 (3	3.7)	
Cost Item	иом		_	1	,	_		_		1				,			O&M									1	_	1				Total
Excavation and Disposal - 27 in. Discharge	CY		109,600	)								109,600	109,600												-	374,0	00 257,9	900 267	,400 267,4	00 267,400	- 1	1,762,900
Disposal Areas	CY			-		-	-					16,219				-			-		-	_			-		-					16,219
Dike Construction Land Surveying	HR			+		+	+					14.7				+			1							-	-	-			-	15,219
Marsh Crane Crew	HR											14.7				+									1							13
Quarter Bardge	DAY															1																
	Total																															
																	Contract 12															
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
Prelay Submerged Pipeline	LF			-		-										<del>                                     </del>	<u> </u>	-													1,500	1,500
Submergeed Pipeline Standby Costs	DAY EA					1										-									-						1.0	1
Warning Floats Pickup Submerged Pipeline	EA															+	+														1	1
Pickup Submerged Pipeline	LF																														5,000	5,000
Submerged Pipeline Stanby Cost	DAY															1														1	3.3	3
Warning Floats	EA																														1	1
Tug Rental	HR																														979.2	979
Tug Rental	HR										_																				326.4	326
Dredge Pipeline Crew	DAY		1	1		1		1						ļ					1	1			_								7.8	8
Crew Boat (Hourly Contractor Owned)	HR		<del> </del>	1	1	+	-	<del> </del>						<u> </u>	<del>                                     </del>				1	-			_		4	-					27. /	
Crew Boat (24-HR Fully Operated Rental)	HR		-	1		+		1						1	<del>                                     </del>				1	1	+ +				-		-				374.4	374
Survey Boat Quarter Boat	HR DAY		<del>                                     </del>	1	+	+	-	1					-	1	╁			-	1	-	+				+	+	+-			+	93.6 7.8	94
Trailering/Delivery of Land Based Equipment	EA					1										+	+								-					+ +	1	1
Rock/Fabrick/Flotation Crew	DAY			+																										+	-	
Marsh Cranes (Fully Operated Rental)	HR															1																
Marsh Cranes (Delivery Fee)	EA																															
Pipeline Dredging																																
Marine Survey	HR																														110.0	110
Dredging Monthly Cost	MO																														1.58	2
Excavation and Disposal - 27 in. Discharge	CY					-													1						_					5	580,000	580,000
	Total							1									Contract 12								- 1							
Mohilization/Demohilization	Total					1	1										Contract 13									1						
Mobilization/Demobilization Prelay Submerged Pipeline	Total																Contract 13															
Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline	LF																Contract 13											1,5	500			1,500
Prelay Submerged Pipeline																	Contract 13											1,5				1,500
Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Standby Costs Warning Floats	LF																Contract 13											1				
Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline	LF DAY EA																Contract 13											1	.0			1 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline	LF DAY EA																Contract 13											9,0	.0			9,000
Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	LF DAY EA LF DAY																Contract 13											9,0	.0 1 000 000 00			9,000 6
Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats	LF DAY EA LF DAY EA																Contract 13											9,0	000			9,000 6 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental	LF DAY EA LF DAY EA HR																Contract 13											9,0	.0 1 000 .0 1			9,000 6 1 979
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats	LF DAY EA LF DAY EA HR																Contract 13											9,0	.00 1 1 0000 .00 1 1 9.2 6.4			9,000 6 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental	LF DAY EA LF DAY EA HR																Contract 13											9,0	.00 1 1 0000 .00 1 1 9.2 6.4			9,000 6 1 979 326
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental)	LF DAY EA LF DAY EA HR HR DAY																Contract 13											9,0 6 97 32 7	.00 1 2000 .00 1 9.2 6.4 .8			9,000 6 1 979 326 8
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat	LF DAY EA LF DAY EA HR HR HR																Contract 13											9,0 6 97 32 7	.00 1 2000 .00 1 9.2 6.4 .8			9,000 6 1 979 326 8 374
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat	LF DAY EA LF DAY EA HR HR DAY HR HR DAY																Contract 13											9,0 6 97 32 7 37 93	.00 1 1 0000 .0 1 1 9.2 6.4 .8 8 4.4			9,000 6 1 979 326 8 374 94
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment	LF DAY EA LF DAY EA HR HR HR																Contract 13											9,0 6 97 32 7	.00 1 1 0000 .0 1 1 9.2 6.4 .8 8 4.4			9,000 6 1 979 326 8 374
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging	LF DAY EA LF DAY EA HR HR DAY HR HR DAY EA																Contract 13											9,0 6 97 32 7 37 93	.00 11 .0000 .00 11 .9.2 .6.4 .8 .8 .4.4			9,000 6 1 979 326 8 374 94 8
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey	LF DAY EA LF DAY EA HR HR DAY HR HR HR HR HR HR HR HR																Contract 13									9.0		1 9,0 6 97 32 7 37 93 7	.00 1 1 2000 .00 1 9.2 6.4 .8 4.4 3.6 .8			9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost	LF DAY EA LF DAY EA HR HR DAY HR HR HR HR DAY HR HR HR MO																Contract 13									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31		9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey	LF DAY EA LF DAY EA HR HR DAY HR HR HR HR HR HR HR HR																Contract 13									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost	LF DAY EA LF DAY EA HR HR DAY HR HR HR DAY HR HR HR DAY CA																Contract 13									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31		9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge	LF DAY EA LF DAY EA HR HR DAY HR HR HR DAY HR HR HR DAY CA																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31		9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR HR CDAY HR HR HR CDAY CY Total																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31		9,000 6 1 979 326 8 374 94 8 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR CDAY HR HR TOAY CY Total																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500	9,000 6 1 979 326 8 374 94 8 1 1,434,100
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Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Submergeed Pipeline Submergeed Pipeline Standby Costs Warning Floats	LF DAY EA LF DAY EA HR HR DAY HR HR CDAY HR HR TOAY CY Total																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500	9,000 6 1 979 326 8 374 94 8 1 1,434,100
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Submergeed Pipeline Submergeed Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR COAY HR HR HR DAY EA HR HR DAY EA HR HR DAY EA HR MO CY Total																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1	9,000 6 1 979 326 8 374 94 8 1 1 33 2 1,434,100
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline Submergeed Pipeline Submergeed Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR HR CAY HR HR DAY HR HR DAY HR HR DAY EA LF DAY EA																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1 5,000	9,000 6 1 979 326 8 374 94 8 1 1 33 2 1,434,100
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR HR DAY EA LF DAY EA LF DAY EA LF DAY EA LF DAY																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1 5,000 3.3	9,000 6 1 979 326 8 374 94 8 1 1,434,100 1,500 1 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline	LF DAY EA LF DAY EA HR HR HR DAY EA CY Total LF DAY EA																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1 5,000 3.3 1	1 1 1 9,000 6 1 979 326 8 374 94 8 1 1,434,100 1,500 1 1 5,000 3 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline	LF DAY EA LF DAY EA HR HR DAY HR HR HR DAY EA LF DAY EA LF DAY EA LF DAY EA LF DAY																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1 5,000 3.3	9,000 6 1 979 326 8 374 94 8 1 1,434,100 1,500 1 1
Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Tug Rental Tug Rental Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Pipeline Dredging Marine Survey Dredging Monthly Cost Excavation and Disposal - 27 in. Discharge  Mobilization/Demobilization Prelay Submerged Pipeline Prelay Submerged Pipeline Submerged Pipeline Standby Costs Warning Floats Pickup Submerged Pipeline Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats	LF DAY EA HR HR DAY HR HR DAY EA LF DAY EA HR HR DAY EA LF DAY EA HR HR MO CY Total LF DAY EA LF DAY EA																									0.46	5 0.3	1 9,6 6 97 32 7 37 93 7	.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.31	1,500 1.0 1 5,000 3.3 1 979.2	1 1 1 9,000 6 1 979 326 8 374 94 8 1 1,434,100 1,500 1 1 5,000 3 1 979

																C	nannel Reach													
		36.3 - 20.0; 36.3 -	36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 2	6.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -			19.1 -	18.0 -	16.0 -	17.7 - 16	5.9 - 15	.6 - 13.1	- 13.0	- 12.7	7 - 11.	.0 -		0.0 -	
					29.5		26.0	27.4	25.9 2	4.0	24.1	22.0			22.1		8.0 17.5	17.8	16.0	13.0	16.7 13	3.3 14					)	8.0 - 6.0	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   0.0 - (3.7)	
Cost Item	UOM																O&M													Total
Crew Boat (24-HR Fully Operated Rental)	HR																												374.4	
Survey Boat	HR					-						-		-	-			_		_					_				93.6	
Quarter Boat	DAY																			-									7.8	
Trailering/Delivery of Land Based Equipment Pipeline Dredging	EA										-				+			+		+		-			-				1	1
Marine Survey	HR												+		+			+											110.0	0 110
Dredging Monthly Cost	MO												1			1													1.58	
Excavation and Disposal - 27 in. Discharge	CY																												580,00	
	otal																													
			•	•	•	•	•		•		•	•	•	•	•		Contract 15	•	•	•		•	•		•		•			
Mobilization/Demobilization																														
Prelay Submerged Pipeline																														
Prelay Submerged Pipeline	LF																												1,500	1,500
Submergeed Pipeline Standby Costs	DAY																												1.0	1
Warning Floats	EA																										-		1	1
Pickup Submerged Pipeline	1.5												1																0.000	0.000
Pickup Submerged Pipeline	LF DAY		1	1	+	1	-	1				+	+	1	-	+ +		-	-	+	+			-					9,000	9,000
Submerged Pipeline Stanby Cost Warning Floats	EA		1	1	1	+	+	1	-			1	+	+	1	+ +		+	+	+	+ +			-	+	+			1	1
Tug Rental	HR		1	1	<del>                                     </del>	+	+	1				<u> </u>	+	+	1	+	<del>-  </del>	+		+	+ +	<del>  </del> -		-	_	+			979.2	979
Tug Rental	HR		1	1	1	1	1					1	+	1		+		+	1	+	+ +	+		1					326.4	326
Dredge Pipeline Crew	DAY	1		1								1	1		1	†					+ +	<u> </u>			+				7.8	8
Crew Boat (Hourly Contractor Owned)	HR																													
Crew Boat (24-HR Fully Operated Rental)	HR																												374.4	374
Survey Boat	HR																												93.6	94
Quarter Boat	DAY																												7.8	8
Trailering/Delivery of Land Based Equipment	EA																												1	1
Pipeline Dredging																														
Marine Survey	HR																										9.0	6.0		33
Dredging Monthly Cost	MO					_								_	-			_									0.46	0.31		2
Excavation and Disposal - 27 in. Discharge	CY																			-						37	4,000	257,900	267,400 267,400 267,400	1,434,10
	otal																Contract 16													
Mobilization/Demobilization				1				1					1		1	<del>1 1</del>	CONTRACT 10	1						1			1			
Prelay Submerged Pipeline													1			1														
Prelay Submerged Pipeline	LF	3,000																											3,000	0 6,000
Submergeed Pipeline Standby Costs	DAY	2.0																											2.0	
Warning Floats	EA	1																											1	2
Prelay Shore Pipeline																														
Prelay Shore Pipeline	LF	4 500																											1,500	
Shore Pipeline Standby Costs		1,500																											3.0	_
	DAY	3.0																												
Deck Barge	DAY EA																												3	
Pickup Submerged Pipeline	EA	3.0																												6
Pickup Submerged Pipeline Pickup Submerged Pipeline	EA LF	3.0 3 9,000																											9,000	6 0 18,000
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	EA LF DAY	9,000 6.0																											9,000	6 0 18,000 12
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats	EA LF	3.0 3 9,000																											9,000	6 0 18,000 12
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline	LF DAY EA	9,000 6.0																											9,000 6.0 1	6 0 18,000 12 2
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline	EA  LF  DAY  EA	9,000 6.0 1																											9,000 6.0 1	6 0 18,000 12 2 0 2,000
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline	LF DAY EA	9,000 6.0																											9,000 6.0 1	6 0 18,000 12 2 0 2,000 4
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge	EA  LF  DAY  EA  LF  DAY	3.0 3 9,000 6.0 1 1,000 2.0																											9,000 6.0 1 1,000 2.0	6 0 18,000 12 2 0 2,000 4 4
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs	EA  LF  DAY  EA  LF  DAY  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0																											9,000 6.0 1 1,000 2.0 2.0	6 0 18,000 12 2 0 2,000 4 4 2 1,958
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental	EA LF DAY EA LF DAY DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2																											9,000 6.0 1 1,000 2.0 2.0 979.2	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned)	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental)	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  DAY  HR  HR  HR  HR	3.0 3 9,000 6.0 1 1,000 2.0 979.2 326.4 7.8 7.8 93.6																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 187.2	6 0 18,000 12 2 0 2,000 4 4,958 4 653 16 2 195 94
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR  HR  HR	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.88 187.2	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat	EA  LF  DAY  EA  LF  DAY  HR  HR  HR  DAY  HR  HR  HR  HR	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 6 187
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR  DAY  DAY  HR  HR  DAY  EA	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.88 187.2	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 6 187 16 2
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew	EA  LF DAY EA  LF DAY HR HR DAY HR HR DAY DAY HR HR DAY DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental)	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8 10.0 120																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10 120
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee)	EA  LF DAY EA  LF DAY HR HR DAY HR HR DAY DAY HR HR DAY DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Welded Pipeline (7E)	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8 10.0 120																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10 120
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Weldded Pipeline (7E) Welding Crew	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  DAY  HR  HR  DAY  HR  HR  DAY  EA  DAY  HR  HR  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 7.8 93.6 7.8 10.0 120 2																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10 120 2
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Welded Pipeline (7E) Welding Crew 2 Crew Welding Team	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 93.6 7.8 10.0 120																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 5 187 16 2 10 120
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Weldded Pipeline (7E) Welding Crew	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  HR  HR  HR  HR  HR  HR  HR  H	3.0 3 9,000 6.0 1 1,000 2.0 979.2 326.4 7.8 7.8 93.6 7.8 1 10.0 120 2																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 653 16 2 195 94 6 187 16 2 10 120 2
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Welded Pipeline (7E) Welding Crew 2 Crew Welding Team Trailering per Load	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  HR  HR  HR  HR  HR  HR  HR  H	3.0 3 9,000 6.0 1 1,000 2.0 979.2 326.4 7.8 7.8 93.6 7.8 1 10.0 120 2																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 653 16 2 195 94 6 187 16 2 10 120 2
Pickup Submerged Pipeline Pickup Submerged Pipeline Submerged Pipeline Stanby Cost Warning Floats Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Pickup Shore Pipeline Shore Pipeline Standby Costs Deck Barge Tug Rental Tug Rental Dredge Pipeline Crew (Monthly) Shore Crew for Pipeline Construction/Deconstruction Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental) Survey Boat Quarter Boat Trailering/Delivery of Land Based Equipment Rock/Fabrick/Flotation Crew Marsh Cranes (Fully Operated Rental) Marsh Cranes (Delivery Fee) Welded Pipeline (7E) Welding Crew 2 Crew Welding Team Trailering/Prelaying/Removing Shore Pipeline	EA  LF  DAY  EA  LF  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  HR  HR  DAY  HR  HR  DAY  HR  HR  DAY  HR  HR  DAY  HR  EA	3.0 3 9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8 10.0 120 2																											9,000 6.0 1 1,000 2.0 2.0 979.2 326.4 7.8 93.6 7.8	6 0 18,000 12 2 0 2,000 4 4 2 1,958 4 653 16 2 195 94 6 187 16 2 10 120 2

															Ch I	Darak														
		36.3 - 20.0;	36.3 - 36.3 -	34.0 - 32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 26.0	- 25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	Channel 20.0 -		19.1 -	18.0 - 16.0	17.7 -	16.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -				0.0	
			20.0 34.0	32.0 29.5	28.0	26.0		25.9 24.0				22.4	22.1	11.0 - 0.0	18.0	17.5	19.1 - 17.8	16.0 13.0		13.3	14.0		11.0		8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0 2	.0 - 0.0 0.0 (3.7	)
Cost Item	иом					L	L		· ·	L			1		180				1 -							1			14-	Total
Shore Pipeline Stanby Cost	DAY		2.0																											2
Welding Shore Pipeline																														
2 Crew Welding Team	LF		2,500																											2,500
Shore Pipeline Stanby Cost	DAY		2.8																											3
Cutting Shore Pipeline																														
1 Welder Crew	LF		2,500																											2,500
Shore Pipeline Stanby Cost	DAY		1.4																											1
Shore Pipeline Crew																														
Shore Crew	DAY		7.8																				1							8
Trailering per Load	EA		4																				1							4
Jack and Bore Under HWY 57	1.5	-	300	-		-							1				1					-	1	-						300
Horizontal Boring Earthwork	CY		40	-														+												40
Land Surveying	HR		20					<del>                                     </del>																						20
Pipeline Dredging	IIIX		20																		-									20
Marine Survey	HR		6.9	6.9 6.9	6.9	6.9		6	.9	6.0	6.0				6.0														11	0.0 169
Dredging Monthly Cost	MO		0.33			0.41			40	0.29	0.31				0.31															58 5
Excavation and Disposal - 27 in. Discharge	CY			0 219,600 165,8			0	219			109,600				109,600	)														,000 2,062,600
Disposal Areas			1 1 1 1 1		1,20	1 .,				1 .,.,,	,		1 1		,		1 1						1							, , , , , , , , , , ,
Dike Construction	CY			91,356	11,916	61,566	;	86,	060	16,219						1					1		1		1					267,117
Land Surveying	HR			83.1	10.8	56.0			3.2	14.7													İ							243
Marsh Crane Crew	HR			337.1	44.0	227.2		31	7.6	59.9																				986
Quarter Bardge	DAY			28.1	3.7	18.9		26	i.5	5.0												L		L						82
Bank Stabilization																														
Foreshore Protection																														
Stone Placement/Material/Delivery	TON						1,900	5,320	21,300	0		11,820	1,960																	42,300
Geotextile																														
Fabric Placement/Material/Delivery	SY																													
Flotation Channel																														
Excavation	BCY						21,042	47,428	161,99	90		109,218	12,191																	351,869
	Total																													
						1				1	, ,				Contra	ct 17					1	1		1		1 1			ı	
Mobilization/Demobilization																							1							
Prelay Submerged Pipeline	1.5													2.000													1,500			4.500
Prelay Submerged Pipeline	DAY	-				-		-						3,000 2.0								-		-			1.0			4,500 3
Submergeed Pipeline Standby Costs Warning Floats	EA							<del>                                     </del>						1													1.0			2
Prelay Shore Pipeline	EA													1									1				1			2
Prelay Shore Pipeline  Prelay Shore Pipeline	LF													3,000																3,000
Shore Pipeline Standby Costs	DAY													6.0																6
Deck Barge	EA													6																6
Pickup Submerged Pipeline																														
Pickup Submerged Pipeline	LF													6,000												1	9,000			15,000
Submerged Pipeline Stanby Cost	DAY													4.0													6.0			10
Warning Floats	EA													1													1			2
Pickup Shore Pipeline																														
Pickup Shore Pipeline	LF													2,000																2,000
Shore Pipeline Standby Costs	DAY													4.0																4
Deck Barge	DAY													4.0																4
Tug Rental	HR													979.2													979.2			1,958
Tug Rental	HR													326.4													326.4			653
Dredge Pipeline Crew	DAY													7.8													7.8			16
Crew Boat (Hourly Contractor Owned)	HR													93.6																94
Crew Boat (24-HR Fully Operated Rental)	HR													374.4													374.4			749
Survey Boat	HR													93.6								-		-			93.6			187
Quarter Boat	DAY			+ +		-	-							7.8							1		<del>                                     </del>		<b> </b>		7.8			16
Trailering/Delivery of Land Based Equipment	EA					+		<del>                                     </del>			1		1	1.0			1		-		1	-	1	-	<del>                                     </del>	1	1			2
Rock/Fabrick/Flotation Crew	DAY	+		+	_	-	-	+-+	-	-	-		-	10 120.0			-				1	-	<b> </b>	-	1	-				10 120
Marsh Cranes (Fully Operated Rental)  Marsh Cranes (Delivery Fee)	HR EA	+		+		-	-	+-+	-				1		<del>                                     </del>	-	1		-		+	1	1	1	<b> </b>	-				2
Pipeline Dredging	EA		+	+ +				+ +			+ -		+	2	}	1	+		+		+	1	+	1	1					
Marine Survey	HR		+	+ +		-	-	<del>                                     </del>			1		1		6.9	1	1	6.9 6.	9		1		6.9		9.0	6.0	6.0	6.0	6.0	61
Dredging Monthly Cost	MO		+	+ + -		+	+	+ +		+			+ -		0.34		+ -	0.34 0.5			1	+	0.34	+	0.46		0.31		0.31	3
Excavation and Disposal - 27 in. Discharge	CY	+ -	<u> </u>	+ +		1	1	+ +	+				+ -		219,600	)	+ -	219,600 331,			1	1	254,500	)			267 400	267,400		2,459,200
Disposal Areas	C1		<u> </u>	1 1		1							1 1				1 1	,555 551,							2,000	,500			2.,.00	2, .55,200
Dike Construction	CY			+ +		1							1 1		8,606	1	1 1	13,240 25,4	87		1		27,142							74,475
Land Surveying	HR		1	1 1		1									7.8			12.0 23				1	24.7	1						68
Marsh Crane Crew	HR					1	1								78.2			120.4 23			1	1	246.7	1						677
Quarter Bardge	DAY			1		1	1						1		6.5		1	10.0 19			1		20.6		1					56
Bank Stabilization				1									1 1				1 1													
R		i e								-																			1	

		1															Ch I	D l.														
		36.3 - 20	0.0; 36.3	- 36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 26.	0 - 25.9	- 24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	Channel 20.0 -		19.1 -	18.0 - 16.0	17.7 -	16.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -				10.	0 -
		11.0 - 0.			32.0	29.5	28.0			25.9 24.					22.1	11.0 - 0.0	18.0	17.5	19.1 - 17.8	16.0 13.0	16.7	13.3	14.0	11.9	11.0		8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0 2	2.0 - 0.0	.7)
Cost Item	UON	1		•	•		•	•		•	•	•	•	•			0&1		•		•	•	•	•	•	•	•			•		Total
Foreshore Protection																																
Stone Placement/Material/Delivery	TON																	19,900	3,640		13,480	42,600	18,900	15,180	)	5,420						119,120
Geotextile	CV				_														-			-	-			-						
Fabric Placement/Material/Delivery Flotation Channel	SY			_				-										-				-			+							
Excavation	BCY			+				1										135 604	29,893		91 516	320 640	253,506	89 178	R	29,893	3					950,230
	otal																	133,004	23,033		31,310	320,040	233,300	, 65,170	,	23,033	1					330,230
					Į.		1	1			ı	I	1	I	l .		Contra	ct 18	1	l	ı	II.			1	ı	ı		I	1	Į.	
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
Prelay Submerged Pipeline	LF																															1,500 1,500
Submergeed Pipeline Standby Costs	DAY							1							1			1				1		1	+							1.0 1
Warning Floats	EA			-				1										1						1	1							1 1
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF																															5,000 5,000
Submerged Pipeline Stanby Cost	DAY																		1													3.3 3
Warning Floats	EA																															1 1
Tug Rental	HR																							L		L						979.2 979
Tug Rental	HR															-																326.4 326
Dredge Pipeline Crew	DAY	1					1	1	ļ				1	1	1			1				1	1	1	1		1					7.8 8
Crew Boat (Hourly Contractor Owned)	HR	+					+	1					+		1			1				1	1	-	+	+	-			-		274.4
Crew Boat (24-HR Fully Operated Rental)	HR HR	-		_			+	<del>                                     </del>	-			_	+		-			<del>                                     </del>	-			<del>                                     </del>	1	-	+	+-	-	-				374.4 374 93.6 94
Survey Boat  Quarter Boat	DAY	+	+	+			+	+					+		+			+	-			+	1	1	+	+	+	+ -		+		7.8 8
Trailering/Delivery of Land Based Equipment	EA																															1 1
Pipeline Dredging																																
Marine Survey	HR																															110.0 110
Dredging Monthly Cost	МО																															1.58 2
Excavation and Disposal - 27 in. Discharge	CY																														5	80,000 580,000
To	otal																	<u> </u>														
Mobilization/Demobilization							1	1					1	1			Contra	ct 19		1					1	1	T					
Prelay Submerged Pipeline				-																		-			+							<del></del>
Prelay Submerged Pipeline	LF																												1,500	l l		1,500
Submergeed Pipeline Standby Costs	DAY																												1.0			1
Warning Floats	EA																												1			1
Pickup Submerged Pipeline																																
Pickup Submerged Pipeline	LF																							1					9,000			9,000
Submerged Pipeline Stanby Cost Warning Floats	DAY EA	_		-	-		-	-					-					-	-			-	-	-	-	+			6.0			6
Tug Rental	HR																							1					979.2			979
Tug Rental	HR																												326.4			326
Dredge Pipeline Crew	DAY																												7.8			8
Crew Boat (Hourly Contractor Owned)	HR																															
Crew Boat (24-HR Fully Operated Rental)	HR																												374.4			374
Survey Boat	HR			_				1										1							-				93.6			94
Quarter Boat Trailering/Delivery of Land Based Equipment	DAY EA	1					1		<b> </b>			_	1	1					1		-		<del>                                     </del>	1	1	+	1		7.8 1			8
Pipeline Dredging	EA	+	+	+	+		+	+			_	+	+	+	+			+	1		+	+	1	+	+	+	+	1		1		
Marine Survey	HR	1		1			1	1					1	1				1	<u> </u>		1	1	1	1	1	+	9.0	6.0	6.0	6.0	6.0	33
Dredging Monthly Cost	МО																									L	0.46	0.31	0.31	0.31	0.31	2
Excavation and Disposal - 27 in. Discharge	CY																										374,000	257,900	267,400	267,400 2	267,400	1,434,100
To	otal							]										]				1					1					
A 171 17 18 18 17 17				1	1		1	1	1	-	<u> </u>		1		1 -		Contra	ct 20	1	ı		1	1	1	1	_	1	1 -		Т	1	
Mobilization/Demobilization Prelay Submerged Pipeline		+		+			+	+				_	+		1			+				+	1		+	1	1	+		+		
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF	+	+	+			+	+					+		+			+	-			+	1	1	+	+	+	+ -		+		1,500 1,500
Submergeed Pipeline Standby Costs	DAY	1	1	1			1	1					1					1				1			1	+	1			+		1.0 1
Warning Floats	EA						1	1					1					1	1			1			1	1						1 1
Pickup Submerged Pipeline																																
Pickup Submerged Pipeline	LF																															5,000 5,000
Submerged Pipeline Stanby Cost	DAY																															3.3 3
Warning Floats	EA						1	1	ļ				1		1			1				1	1	1	1	1	-					1 1
Tug Rental	HR	+		-	-		+	1					+		1			1				1	1	-	+	+	-			-		979.2 979
Tug Rental Dredge Pipeline Crew	HR DAY	+		_	-		+	1					+		1			1				1	1	-	+	+	-	-		+		326.4 326 7.8 8
Crew Boat (Hourly Contractor Owned)	HR	+		+			+	<del>                                     </del>					+		+			<del>                                     </del>	<u> </u>			+	1		+	+	-	+		+		7.0 0
Crew Boat (1961) Contractor Gwiled)	HR	+	-	+			+	1					1					1	<del>                                     </del>			1	1		+	+	1			+		374.4 374
Survey Boat	HR	1					1	1					1					1	1			1	1		1	1				1		93.6 94
Quarter Boat	DAY																															7.8 8

																Channel Reach										
									26.4 - 2	6.0 -	25.9 -					20.0 - 11.0; 20.0 - 19.2 -		18.0 - 16.0	0 - 17.7 - 16		1 - 13.0 -		11.0 -	8.0 - 6.0	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (3.7)	
Cost House	UOM	11.0 - 0.0 20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 2	4.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0 18.0 17.5 O&M	17.8	16.0 13.0	16.7 13	3 14.0 11.	9 11.0	12.3	8.0	0.0 0.0	(3.7)	Total
Cost Item  Trailering/Delivery of Land Based Equipment	EA															I I I										10tai 1
Pipeline Dredging	271																									-
Marine Survey	HR																								110.0	110
Dredging Monthly Cost	MO																								1.58	
Excavation and Disposal - 27 in. Discharge	CY																								580,00	0 580,000
	Total															Contract 21										
Mobilization/Demobilization																Contract 21										
Prelay Submerged Pipeline																										
Prelay Submerged Pipeline	LF	7,800																								7,800
Submergeed Pipeline Standby Costs Warning Floats	DAY EA	5.2	-												-						_		-			5 1
Prelay Shore Pipeline	EA	1													+											1
Prelay Shore Pipeline	LF	1,500																								1,500
Shore Pipeline Standby Costs	DAY	3.0																								3
Deck Barge	EA	3																								3
Pickup Submerged Pipeline Pickup Submerged Pipeline	LE	9,000	-						-			-		-	+						_			-		9,000
Submerged Pipeline Stanby Cost	DAY	6.0	+	+ +			-					+	1		1	<del>                                     </del>	_					+		+		6
Warning Floats	EA	1												L										<u> </u>		1
Pickup Shore Pipeline																										
Pickup Shore Pipeline	LF	1,000	+	+								1	1				$\perp$						$\perp$	1		1,000
Shore Pipeline Standby Costs Deck Barge	DAY DAY	2.0	+	+ +								+			1		+			+ +		+	-	1		2 2
Tug Rental	HR	1,306	+	+ +											1									+		1,306
Tug Rental	HR	653																								653
Dredge Pipeline Crew	DAY	7.8																								8
Crew Boat (Hourly Contractor Owned)	HR	93.6																								94
Crew Boat (24-HR Fully Operated Rental) Survey Boat	HR HR	374.4 93.6	-						-			-		-	+						_			-		374 94
Quarter Boat	DAY	7.8																								8
Trailering/Delivery of Land Based Equipment	EA	1																								1
Rock/Fabrick/Flotation Crew	DAY																									
Marsh Cranes (Fully Operated Rental)	HR	120																			_					120
Marsh Cranes (Delivery Fee) Pipeline Dredging	EA	2													1					++++					+ + + + + + + + + + + + + + + + + + + +	2
Marine Survey	HR		6.9									6.0	6.0										9.0	6.0	6.0 6.0 6.0	52
Dredging Monthly Cost	MO		0.33									0.29	0.29										0.46	0.31	0.31 0.31 0.31	3
Excavation and Disposal - 27 in. Discharge	CY		109,600	)								109,600	109,600	)									374,00	257,900	267,400 267,400 267,400	1,762,900
Disposal Areas  Dike Construction	CY											16,219			1										<del>                                     </del>	16,219
Land Surveying	HR											14.7														15
Marsh Crane Crew	HR											1														10
Quarter Bardge	DAY																									
	Total																									
Mahilization / Domahilization			1	1	1			1 1				1	1	T		Contract 22	1	1		<del>- 1 - 1</del>			1			
Mobilization/Demobilization Prelay Submerged Pipeline			+	+ +								+	1		+	<del>                                     </del>	+			<del>-                                     </del>		+	+	+	+ + + + + + + + + + + + + + + + + + + +	
Prelay Submerged Pipeline	LF		L																			1			1,500	1,500
Submergeed Pipeline Standby Costs	DAY																								1.0	1
Warning Floats	EA		+	1			-					-	1				_							-	1	1
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF		+	+ +			-				-	-	1	-			+					-	+	+	5,000	5,000
Submerged Pipeline Stanby Cost	DAY		+	1 1			<del>                                     </del>					<del>                                     </del>	1		1		+						+	1	3.3	3,000
Warning Floats	EA																								1	1
Tug Rental	HR																						T		979.2	
Tug Rental	HR			+			<u> </u>					1	1												326.4	
Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned)	DAY HR		+	+ +													+			+			+	1	7.8	8
Crew Boat (1941) Crew Boat (24-HR Fully Operated Rental)	HR		+	1								†			1									1	374.4	374
Survey Boat	HR																								93.6	94
Quarter Boat	DAY			$\bot$																					7.8	8
Trailering/Delivery of Land Based Equipment	EA DAY		+	+ +								1	1		1		+					-	+	1	1	1
Rock/Fabrick/Flotation Crew  Marsh Cranes (Fully Operated Rental)	HR		+	+ +			1						+				1						+	1		
Marsh Cranes (Delivery Fee)	EA		1	1									1	1			1						+	1		
Pipeline Dredging																										
Marine Survey	HR												1												110.0	
Dredging Monthly Cost	MO		+	1			-					-	1											-	1.58	
Excavation and Disposal - 27 in. Discharge	CY										1		1												580,00	0 580,000

	1															Channel Beer	L												
		36.3 - 20.0; 36.3 -	36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 26.	) - 2	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	Channel Read 20.0 - 11.0; 20.0 - 19.3		18.0 -	16.0 -	17.7 - 16.9	- 15.6 - 13.	.1 - 13.	0 - 12.	7 - 11.0	) -		0.	0 -	
			34.0	32.0	29.5	28.0	26.0	27.4	25.9 24.	2				22.4	22.1	11.0 - 0.0 18.0 17.5	17.8	16.0	13.0	16.7 13.3	14.0 11.				8.0	0 - 6.0	5.0 - 4.0   4.0 - 2.0   2.0 - 0.0   0. (3	3.7)	
Cost Item	UOM		•	•	•	•					•		•		•	M&O		•					•	•					Total
	Total																												
																Contract 23													
Mobilization/Demobilization																													
Prelay Submerged Pipeline																											4.500		4.500
Prelay Submerged Pipeline	LF DAY		-		+										1						+			-			1,500 1.0		1,500 1
Submergeed Pipeline Standby Costs Warning Floats	EA																										1.0		1
Pickup Submerged Pipeline	LA																										1		
Pickup Submerged Pipeline	LF																										9,000		9,000
Submerged Pipeline Stanby Cost	DAY																										6.0		6
Warning Floats	EA																										1		1
Tug Rental	HR																										979.2		979
Tug Rental	HR				-														_								326.4		326
Dredge Pipeline Crew  Crew Boat (Hourly Contractor Owned)	DAY HR		-		-		-								-				_					-			7.8		8
Crew Boat (Aburry Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR																										374.4		374
Survey Boat	HR																										93.6		94
Quarter Boat	DAY		1		1	1							1														7.8		8
Trailering/Delivery of Land Based Equipment	EA																										1		1
Pipeline Dredging																													
Marine Survey	HR			1																						6.0	6.0 6.0 6.0		33
Dredging Monthly Cost	MO		-	-		-		-							<u> </u>			_									0.31 0.31 0.31		2
Excavation and Disposal - 27 in. Discharge	CY	<del>                                     </del>	+	+	+	-		+ -							-	<del>                                     </del>							+	374	,000 25	7,900	267,400 267,400 267,400	1	1,434,100
	Total		_[			_		1					1	<u> </u>	<u> </u>	Contract 24													
Mobilization/Demobilization			1	1	1		1	1 1			1		1		1	Contract 24	1			1 1									
Prelay Submerged Pipeline					1																								
Prelay Submerged Pipeline	LF																											1,500	1,500
Submergeed Pipeline Standby Costs	DAY																											1.0	1
Warning Floats	EA																											1	1
Pickup Submerged Pipeline																													
Pickup Submerged Pipeline	LF				-										-										_				5,000
Submerged Pipeline Stanby Cost	DAY									-															_			3.3	3
Warning Floats Tug Rental	EA HR				1																+ +							1 979.2	979
Tug Rental	HR																						_	+				326.4	326
Dredge Pipeline Crew	DAY																											7.8	8
Crew Boat (Hourly Contractor Owned)	HR																												
Crew Boat (24-HR Fully Operated Rental)	HR																											374.4	374
Survey Boat	HR																											93.6	94
Quarter Boat	DAY																											7.8	8
Trailering/Delivery of Land Based Equipment	EA																											1	1
Pipeline Dredging	HR		-		-		-								-				_					-				110.0	110
Marine Survey Dredging Monthly Cost	MO				+		+																-					1.58	2
Excavation and Disposal - 27 in. Discharge	CY																											80,000	
	Total																												,
																Contract 25													
Mobilization/Demobilization																													
Prelay Submerged Pipeline								$\bot$						ļ							$\bot$								
Prelay Submerged Pipeline	LF																										1,500		1,500
Submergeed Pipeline Standby Costs	DAY			-	+	+	-	1			-		1	1	-				-		+			+			1.0		1
Warning Floats Pickup Submerged Pipeline	EA		-	-	+	-	-	+					+	1	-			+	-			_	-+	+	<del>- 1</del>	1	1		1
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF	+ + -	+		+	+	1	+ -		-+			+	1	1	<del>                                     </del>		+			+	-	+	+			9,000		9,000
Submerged Pipeline Stanby Cost	DAY				+	1		1 1						1	1								<del>-  </del> -	-			6.0		6
Warning Floats	EA		1		1	1							1														1		1
Tug Rental	HR																										979.2		979
Tug Rental	HR																										326.4		326
Dredge Pipeline Crew	DAY							$oxed{oxed}$																$\perp$			7.8		8
Crew Boat (Hourly Contractor Owned)	HR		-		+		-	1					1	1	1									$\perp$			274.4		
Crew Boat (24-HR Fully Operated Rental)	HR			-	+	+	-	1			-		1	1	-				-		+			+			374.4		374
Survey Boat Quarter Boat	HR DAY			-	+	+	-	1			-		1	1	-				-		+			+			93.6 7.8		94
Trailering/Delivery of Land Based Equipment	EA EA		-		+	+	-	1		-+	-		1	1	1	<del>                                     </del>		-	-		+ +		-	+			7.8		8
Pipeline Dredging	EA	<del>                                     </del>	-	-	+	+	1	+		-+	1		1	1	+	<del>                                     </del>	-	+	-		+	-		+	<del>-  </del>		<u> </u>		
Marine Survey	HR		-		1	1	1	1 1		-+			1	1	1	<del>                                     </del>					+ +	_	1	9	.0	6.0	6.0 6.0 6.0		33
Dredging Monthly Cost	МО		1		1	1							1											0.	46 (	0.31	0.31 0.31 0.31		2
Excavation and Disposal - 27 in. Discharge	CY																								,000 25	7,900	267,400 267,400 267,400	1	1,434,100
	Total																												

				T	1_	1_	1	T	1		1_	1_	1	1_	-		Channel		1	T	1		-	_ 1	1	_	1				
		36.3 - 20.0; 11.0 - 0.0			34.0 - 32.0	32.0 - 29.5				26.4 - 26.0 - 25.9 24.0	25.9 - 24.1	24.0 - 22.0	22.0 - 20.0	23.7 - 22.4		20.0 - 11.0; 11.0 - 0.0		19.2 - 17.5	19.1 - 17.8	18.0 - 16.0		.7.7 - 16.9 .6.7 13.3			13.0 - 12 11.0 12	.7 - 11.0 .3 8.0	8.0 -	6.0 6.0 - 4.0	4.0 - 2.0	2.0 - 0.0 0.0 - (3.7)	
Cost Item	UOM		20.0	34.0	32.0	29.5	28.0	20.0	27.4	25.9  24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0	18.0 180		17.8	10.0	13.0	.0.7  13.3	14.0	111.9	11.0  12	.3  8.0			1 1	(3.7)	Total
																	Contra	ct 26													
Mobilization/Demobilization																															
Prelay Submerged Pipeline	LF		2.000																				_							2.0	000 6 000
Prelay Submerged Pipeline Submergeed Pipeline Standby Costs	DAY		3,000 2.0																											3,0	
Warning Floats	EA		1																											1	
Prelay Shore Pipeline																															
Prelay Shore Pipeline	LF		3,000																											1,5	4,500
Shore Pipeline Standby Costs	DAY		6.0																											3.	
Deck Barge	EA		12																											3	3 15
Pickup Submerged Pipeline	I F		15.000																											0.0	24.000
Pickup Submerged Pipeline Submerged Pipeline Stanby Cost	DAY		15,000 10.0	'																										6.	.00 24,000 .0 16
Warning Floats	EA		10.0			-					-		+																+ +	1	
Pickup Shore Pipeline			-																											-	<u> </u>
Pickup Shore Pipeline	LF		3,500																											1,0	000 4,500
Shore Pipeline Standby Costs	DAY		7.0																											2.	.0 9
Deck Barge	DAY		14.0																											2.	
Tug Rental	HR		1,632.0		-	1					1	1	1	1		1		1	-	1									1	979	
Tug Rental	HR		979.2		-	1					+	1	1	1		1	ļ	1	-	1			-						+ +	326	
Dredge Pipeline Crew (Monthly)  Shore Crew for Pipeline Construction/Deconstructio	DAY n DAY		7.8 7.8		1						+	+	1	-		+	1	1	1	1							-		+ +	7. 187	
Crew Boat (Hourly Contractor Owned)	n DAY HR		93.6	1	1	1	+	<u> </u>			+		+	+	+	+	1						-					-	+ +	187	94
Crew Boat (14-HR Fully Operated Rental)	HR		33.0		1		1				+	1			1			1	1												37
Survey Boat	HR		93.6				1				1					İ		1												93	3.6 187
Quarter Boat	DAY		7.8																											7.	.8 16
Trailering/Delivery of Land Based Equipment	EA		1																											1	
Rock/Fabrick/Flotation Crew	DAY		10.0																												10
Marsh Cranes (Fully Operated Rental)	HR		120																												120
Marsh Cranes (Delivery Fee) Welded Pipeline (7E)	EA		2																												2
Welding Crew															+				1												
2 Crew Welding Team	HR		72																												72
Trailering per Load	EA		4																												4
Delivering/Prelaying/Removing Shore Pipeline																															
Prelay/Pickup Shore Pipe	LF		2,500																												2,500
Trailering per Load	EA		13		-						-																				13
Truck Loading/Unloading	EA DAY		50																												50
Shore Pipeline Stanby Cost Welding Shore Pipeline	DAY		2.0																												2
2 Crew Welding Team	LF		2,500																												2,500
Shore Pipeline Stanby Cost	DAY		2.8																												3
Cutting Shore Pipeline																															
1 Welder Crew	LF		2,500																												2,500
Shore Pipeline Stanby Cost	DAY		1.4																												1
Shore Pipeline Crew																															
Shore Crew	DAY EA		7.8 4		-	1					+	1	1	1		1	ļ	1	-	1			-						+ +		8
Trailering per Load  Jack and Bore Under HWY 57	EA		4	1	1	+	1				+	+			+	+	1	1	1	1							-		+ +		4
Horizontal Boring	LF		300	1	1	+	1					+			1	†		1	1	1									+ +		300
Earthwork	CY		40		1		1				+	1			1			1	1												40
Land Surveying	HR		20																												20
Pipeline Dredging																															
Marine Survey	HR					6.9		6.9		6.9		6.0					6.0													110	
Dredging Monthly Cost	MO		<u> </u>			0.45		0.41		0.40		0.29		1		1	0.43	1	1	<u> </u>											58 5
Excavation and Disposal - 27 in. Discharge	CY		<b> </b>	109,600	219,60	U 165,800	219,600	219,600		219,600	U	109,60	U	1		1	109,600	1	-	1			-						+ +	580,	,000 1,953,00
Disposal Areas Dike Construction	CY		-		0.	1,356	11 016	61,566		86,060	1	16 210	31,776			1	1	<del>                                     </del>	-	<del>                                     </del>	-		-	_	-	_			+-+		298,89
Land Surveying	HR			1		83.1	10.8	56.0		78.2		14.7			+	+	<b> </b>	1	1		+		$\dashv$	_	<del>                                     </del>	_	_	-	+ +		298,89
Marsh Crane Crew	HR					337.1	44.0	227.2		317.6		59.9	117.3		1			1	1				$\neg$						+ +		1,103
Quarter Bardge	DAY					28.1	3.7	18.9		26.5		5.0	9.8					L	L								1				92
Bank Stabilization																															
Foreshore Protection							1																								
Stone Placement/Material/Delivery	TON		ļ		1	1			1,900	5,320	21,30	)	1	11,820	1,960		ļ	1	1	ļ											42,300
Geotextile	61		1		1	1					1	1	1	1	1	1	1	1	1	1			_				_		+		
Fabric Placement/Material/Delivery Flotation Channel	SY		<del>                                     </del>		1							-	1	-	1	1		1	1	1							_		+ +		
Excavation	BCY				1		+		21,042	47.428	161,99	0	+	109 21	8 12,191	1		+	1	+			+	+	<del>                                     </del>		+		+ +		351,86
LACUVULIOII	Total		1	1	+	+	1		21,042	.,,,,,	101,33		-	103,21	_ 12,131		1	1	1	1							_		+ +		331,00
		1	1		1		1	Ĭ.	i .					1		1	1	ct 27	1	1											

		I															Channel	Reach														
		36.3 - 20	0.0; 36.3		34.0 -		29.5 -			26.4 - 26			22.0 -			20.0 - 11.0;	20.0 -	19.2 -	19.1 -	18.0 - 1		- 16.9 -	15.6 -	13.1 -		12.7 -	11.0 -	00.60	60.40	4.0 - 2.0 2.0 -	0.0 -	
		11.0 - 0.0	0 20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24	1.0 24.	.1 22.0	20.0	22.4	22.1	11.0 - 0.0		17.5	17.8	16.0 1	3.0 16.7	13.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0 2.0 -		
Cost Item	UOM	1			_	_		1					_	_			0&1	М	_			_	_			_			1		Т	Total
Mobilization/Demobilization																			-									-				
Prelay Submerged Pipeline	LF				-											9,000			-	-									1,500		10	0,500
Prelay Submerged Pipeline Submergeed Pipeline Standby Costs	DAY															6.0										1			1.0			7
Warning Floats	EA				+										1	1							1						1.0			2
Prelay Shore Pipeline	LA													1					+							1			1			
Prelay Shore Pipeline	LF															3,000															3.	3,000
Shore Pipeline Standby Costs	DAY															6.0										1						6
Deck Barge	EA															12																12
Pickup Submerged Pipeline																																
Pickup Submerged Pipeline	LF															6,000												•	9,000		15	5,000
Submerged Pipeline Stanby Cost	DAY															4.0													6.0			10
Warning Floats	EA															1													1			2
Pickup Shore Pipeline																																
Pickup Shore Pipeline	LF															2,000																,000
Shore Pipeline Standby Costs	DAY															4.0																4
Deck Barge	DAY	-		_	-		1							-	1	4.0	-		1	+			-	-	1	-	1		070.0			4
Tug Rental	HR	1			+	-	1	1	1					1	1	979.2	1	+	+	+		+	1	1	1	-	-		979.2			,958
Tug Rental	HR	<del> </del>			+	-	1	1	<del>                                     </del>	-			+	1	1	326.4	1	1		+ +		-	-	1	1	1			326.4			653
Dredge Pipeline Crew  Crew Boat (Hourly Contractor Owned)	DAY HR	-	_	_	-	-	-							-	+	7.8 93.6	-		-	+-+		-	-	-	-	1	+	1	7.8	<u> </u>		16 94
Crew Boat (Hourly Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	1			+	-	+	}	1					1	1 -	374.4	<del>                                     </del>	+	+	+	<del>-  </del> -	+	+	+	+	1		1	374.4			94 749
Survey Boat (24-HR Fully Operated Rental)	HR	-	-+		+		+							1	+ +	93.6	1		+	+		+	+	+	+	1	-		93.6			749 187
Quarter Boat	DAY				+										1	7.8							1						7.8			16
Trailering/Delivery of Land Based Equipment	EA	1			+		+							1	1 1	1.0	-		+	+		+	+	+	+	1	1		1			2
Rock/Fabrick/Flotation Crew	DAY													1		10			+							1			T -			10
Marsh Cranes (Fully Operated Rental)	HR															120.0																120
Marsh Cranes (Delivery Fee)	EA															2																2
Pipeline Dredging																										1						
Marine Survey	HR																6.9			6.9	6.9				6.9		9.0	6.0	6.0	6.0 6	.0	61
Dredging Monthly Cost	МО																0.38			0.34	0.55				0.34		0.46	0.31		0.31 0.	31	3
Excavation and Disposal - 27 in. Discharge	CY																219,600	)		219,600	31,400				254,500	)	374,000	257,900	267,400	267,400 267	,400 2,45	59,200
Disposal Areas																																
Dike Construction	CY																8,606			13,240					27,142							4,475
Land Surveying	HR																7.8				23.2				24.7							68
Marsh Crane Crew	HR																78.2				231.7				246.7							677
Quarter Bardge	DAY				-									-			6.5		-	10.0	19.3		-		20.6	-				<del>                                     </del>		56
Bank Stabilization					-									-					-				-			-				<del>                                     </del>		
Foreshore Protection	TON				+									+	+			10.000	3,640	+ +	12.4	80 42,600	10.000	15 100	,	5,420	,		-	-	111	9,120
Stone Placement/Material/Delivery  Geotextile	TON																	19,900	3,040		13,4	42,000	10,900	15,160	,	3,420	,			<del>                                     </del>	111	9,120
Fabric Placement/Material/Delivery	SY																											-				
Flotation Channel	31																		+							1						
Excavation	BCY																	135.604	1 29,893	3	91.5	16 320,64	0 253.50	6 89.178	3	29,89	3				95	0,230
	Total																							00,210		,						-,
				ı	l .	·	1	ı	1	1		l.	l .	1	1		Contra	ct 28	1			1			1	1	ı		1		•	
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
Prelay Submerged Pipeline	LF																															,500
Submergeed Pipeline Standby Costs	DAY																															1
Warning Floats	EA	1						ļ						1	1			1								ļ		<u> </u>	<b>_</b>		1	1
Pickup Submerged Pipeline		<del> </del>	_	_										<del>                                     </del>	1			1	1	-						ļ						
Pickup Submerged Pipeline	LF	1		_	-	+	-	1	<b> </b>					1	1		-	1		+		_	-	-	-	<u> </u>	-	-	1			5,000
Submerged Pipeline Stanby Cost	DAY	-			+	-	1							<del> </del>	+ -		1	-	+	+ +	-	_	+	+	1	1	1	1	1			3
Warning Floats	EA HR	1	_		-	-	+	<del>                                     </del>	-					+	+		-	+	-	+		-	-	-	+	1	+	+	+			1 070
Tug Rental Tug Rental	HR	1	_		-	-	+	<del>                                     </del>	-					+	+		-	+	-	+		-	-	-	+	1	+	+	+			979 326
Dredge Pipeline Crew	DAY	<del>                                     </del>	-		+	+	1	1	1	+			+	+	1			1		+ +	-	+	+	+	1	1		+	1			8
Crew Boat (Hourly Contractor Owned)	HR		1		+		1							1	1 1				1	+ +			1	1	1		1	1			7.0	
Crew Boat (10dify Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	1			+		1	1						1	1 1			1	1	1 1		+	+	1	1			1	1		374.4	374
Survey Boat	HR	1			1		1	1						1	1 1			1	1	1 1			1	1	1				1			94
Quarter Boat	DAY	1	1		1	1	1			<u> </u>			1	1				1		† †			1	1	1	1		1	1			8
Trailering/Delivery of Land Based Equipment	EA													1					1													1
Pipeline Dredging		1			İ									1								İ	İ	İ								
Marine Survey	HR																														110.0	110
Dredging Monthly Cost	МО																															2
Excavation and Disposal - 27 in. Discharge	CY																														580,000 58	0,000
1	Total																															
																	Contra	ct 29														
Mobilization/Demobilization		1												1																		

																	Channel												
		36.3 - 20.0;			34.0 -	32.0 -			27.6 -	26.4 - 26.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	20.0 -	19.2 -	19.1 -	18.0 -		17.7 - 16.9				2.7 - 11.	.0 - 8.0 - 6.0 6.0 - 4	0 4.0 - 2.0 2.0 - 0	0.0 -
Cost Item	UOM	11.0 - 0.0	20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9 24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0	18.0  0&1		17.8	16.0	13.0	16.7 13.3	14.	0 11.9	11.0 12	2.3 8.0	)		(3.7) To
Prelay Submerged Pipeline	UOIVI						1										Uai	T	1										<del>                                     </del>
Prelay Submerged Pipeline  Prelay Submerged Pipeline	LF						+				+		+						1								1,500	<u> </u>	1,
Submergeed Pipeline Standby Costs	DAY																										1.0		-,
Warning Floats	EA																										1		
Pickup Submerged Pipeline																													
Pickup Submerged Pipeline	LF																										9,000	)	9,
Submerged Pipeline Stanby Cost	DAY																										6.0		
Warning Floats	EA																										1		
Tug Rental	HR																										979.2		g
Tug Rental	HR																										326.4		3
Dredge Pipeline Crew	DAY																										7.8		
Crew Boat (Hourly Contractor Owned)	HR																												
Crew Boat (24-HR Fully Operated Rental)	HR																										374.4		3
Survey Boat	HR																										93.6		
Quarter Boat	DAY																										7.8		
Trailering/Delivery of Land Based Equipment	EA																										1	1	
Pipeline Dredging							1						+				<u> </u>	<u> </u>	1		<del>                                     </del>						00 00		+
Marine Survey	HR	1	1	+	1	+	+	1	1		+	-	+	1	-		1	1	+	1	+				+		9.0 6.0 6.0		
Dredging Monthly Cost	MO		1	+	1	+	+	1			+		+	1	1		1	1	+	1	+				+			0.31 0.3	
Excavation and Disposal - 27 in. Discharge	CY		+	+	+	+	+	1			+		+	1	-	<del>                                     </del>	<del>                                     </del>	+	+	1	+				+ +	37	4,000 257,900 267,40	267,400 267,4	00 1,43
	Total	<u> </u>	1				1									<u> </u>	Combin	nt 20	1	1	1							1	
Mahilipation / Domahilipation	<del></del>	<u> </u>	+		1	1	1		1		1		1		1	1	Contra	CC 3U	1		1				1 1	1	<u> </u>		<del></del>
Mobilization/Demobilization Prelay Submerged Pipeline		<del>                                     </del>	-	+	-	+	+	<del>                                     </del>	╂──┤		-	-	+	+			<b> </b>	-	1	+	<del>                                     </del>				+			+	
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF		+	+	+	+	+	1	}		+		+	+	-	-	1	+	+	1	+				+ +	+	+ +	+ +	1,500 1,
Submergeed Pipeline Standby Costs	DAY																												1.0
Warning Floats	EA			-			+												-				_						1.0
Pickup Submerged Pipeline	EA																				1								1
Pickup Submerged Pipeline	LF		+		+										-			1	1										5,000 5,
Submerged Pipeline Stanby Cost	DAY																												3.3
Warning Floats	EA																												1
Tug Rental	HR																												979.2
Tug Rental	HR																												326.4
Dredge Pipeline Crew	DAY																												7.8
Crew Boat (Hourly Contractor Owned)	HR																												
Crew Boat (24-HR Fully Operated Rental)	HR																												374.4
Survey Boat	HR																												93.6
Quarter Boat	DAY																												7.8
Trailering/Delivery of Land Based Equipment	EA																												1
Pipeline Dredging																													
Marine Survey	HR																												110.0 1
Dredging Monthly Cost	МО																												1.58
Excavation and Disposal - 27 in. Discharge	CY																												580,000 580
	Total																												
					_		_					-			1	1	Contra	ct 31	_										
Mobilization/Demobilization																													
Prelay Submerged Pipeline			1	1			1		ļļ				1				ļ		1		1		_						
Prelay Submerged Pipeline	LF	3,000	1	+	-	+	1	-					+	1			<b> </b>	1	1	1	-				+			1 1	3,
Submergeed Pipeline Standby Costs	DAY	2.0	1	+	-	+	1	-					+	1			<b> </b>	1	1	1	-				+			1 1	
Warning Floats	EA	1	+	+	+	+	+	1	1		+	-	+	1	-	<del>                                     </del>	<del>                                     </del>	+	+	+	+		-		+ +	-	<del>-   -   -  </del>	+	
Prelay Shore Pipeline Prelay Shore Pipeline	I.F.	2,500	1	+	-		+	-	}		-		+	+	-	-	<b> </b>	1	1	1	+				+			+	2,
Shore Pipeline Standby Costs	DAY	5.0	+	+	+	+	+	1	}		+		+	+	-	-	1	+	+	1	+				+ +	+	+ +	+ +	Σ,
Deck Barge	EA	10	1	+	1	+	+	<del>                                     </del>	1		+		+	1	-	<del>                                     </del>	1	1	+	1	+		+		+ +	+	+ +	+ +	
Pickup Submerged Pipeline	EA	10	1	+	1	+	+	<del>                                     </del>	1		+		+	1	-	<del>                                     </del>	1	1	+	1	+		+		+ +	+	+ +	+ +	
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF	15,000	+	+	+		+	1	1		+		+	+	1	<del>                                     </del>	<del>                                     </del>	<del>†                                      </del>	+	+	+		_		+ +	<del>-  </del>		+ +	15
Submerged Pipeline Stanby Cost	DAY	10.0	+		+										-			1	1							-			15
Warning Floats	EA	1	1	+	+	+	1		1		+		+	1				1	1	1	1		+		+ +	-		+ +	
Pickup Shore Pipeline	LA	†	1	+	+	+	1		1		+		+	1				1	1	1	1		+		+ +	-		+ +	+ +
Pickup Shore Pipeline	LF	1,500	1	1		+	1				+		+	1				1	1				-				<del>                                      </del>	1 1	1,
Shore Pipeline Standby Costs	DAY	3.0	1				1		1						1			1	1		1		$\neg$						
Deck Barge	DAY	6.0	1	1	1		1						1	1				<u> </u>	1	1	<b>†</b>					<u> </u>		1	
Tug Rental	HR	1,306	1	1	1	1	1		1 1		1		1	1			1	1	1	1	1					<u> </u>			1,
Tug Rental	HR	653	1	1	1	1	1		1 1		1		1	1			1	1	1	1	1					<u> </u>			- 6
Dredge Pipeline Crew	DAY	7.8	1				1								1			1	1		1		$\neg$						
Crew Boat (Hourly Contractor Owned)	HR	93.6	1			1	1											1	1		1								
Crew Boat (24-HR Fully Operated Rental)	HR	374.4	1		1	1	1												1									1 1	3
Survey Boat	HR	93.6	1		1	1	1												1									1 1	
Survey Boat	HR	187.2																											1
Quarter Boat	DAY									İ																			
		•			_ •							_ •						-											

																		Channel Reach														
		36.3 - 20.			34.0 -	32.0 -	29.5 -			26.4 -	26.0 -	25.9 -	24.0 -				20.0 - 11.0;	20.0 - 19.2 -	19.1 - 18.			7 - 16.9 -		13.1 -		12.7 -	11.0 -	80-60	6.0 - 4.0 4.0 - 2.	0.0	) -	
6.11		11.0 - 0.0	20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9	24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0	18.0 17.5 O&M	17.8 16.	13.0	16.	7 13.3	14.0	11.9	11.0	12.3	8.0	0.0 - 0.0	0.0 - 4.0   4.0 - 2.	(3.	7)	Takal
Cost Item  Trailering/Delivery of Land Based Equipment	UOM EA	1					1	1		1		1		1 1				U&IVI							1				1	<del></del>		Total 1
Rock/Fabrick/Flotation Crew	DAY	1																														1
Marsh Cranes (Fully Operated Rental)	HR	120																														120
Marsh Cranes (Delivery Fee)	EA	2																														2
Pipeline Dredging																																
Marine Survey Dredging Monthly Cost	HR MO			6.9 0.33					-				6.0 0.29	6.0 0.36		1							+				9.0 0.46	6.0 0.31	6.0 6.0 0.31 0.31	6.0 0.31		52 3
Excavation and Disposal - 27 in. Discharge	CY			109,600										109,600									+			-			267,400 267,40		1	1,762,900
Disposal Areas																											,					<del>,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
Dike Construction	CY													31,776																		47,995
Land Surveying	HR								-				14.7	28.9																		44
Marsh Crane Crew  Quarter Bardge	HR DAY								-			-	-								_		-			+						
Total									1			1												-								
				1		1		1						1		1		Contract 32		I		1	1				1		l l			
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
Prelay Submerged Pipeline	LF DAY																						-									1,500
Submergeed Pipeline Standby Costs Warning Floats	EA																														1.0	1
Pickup Submerged Pipeline									1																						-	
Pickup Submerged Pipeline	LF																													5	,000	5,000
Submerged Pipeline Stanby Cost	DAY																														3.3	3
Warning Floats	EA								-							-							_								1 70.2	1
Tug Rental Tug Rental	HR HR																														79.2 26.4	979 326
Dredge Pipeline Crew	DAY																														7.8	8
Crew Boat (Hourly Contractor Owned)	HR																															
Crew Boat (24-HR Fully Operated Rental)	HR																														74.4	374
Survey Boat	HR								-							-							_								93.6	94
Quarter Boat Trailering/Delivery of Land Based Equipment	DAY EA																						+				-				7.8	8
	DAY								1			1												-							1	
Marsh Cranes (Fully Operated Rental)	HR																															
Marsh Cranes (Delivery Fee)	EA																															
Pipeline Dredging									-							-							_							+	10.0	110
Marine Survey Dredging Monthly Cost	HR MO								-			-	-								_		-			+					10.0 1.58	110 2
Excavation and Disposal - 27 in. Discharge	CY																															580,000
Total	_																															
										1								Contract 33							•							
Mobilization/Demobilization																																
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF								-			-	-								_		-			+			1,500			1,500
Submergeed Pipeline Standby Costs	DAY																												1.0			1,300
Warning Floats	EA																												1			1
Pickup Submerged Pipeline																																
Pickup Submerged Pipeline	LF				ļ	ļ	-				-	1	1													-	-		9,000			9,000
Submerged Pipeline Stanby Cost Warning Floats	DAY EA		_		<u> </u>		-				-	+	1	1							_		-			+			6.0			6 1
Tug Rental	HR	+	+			1	1					+	1	1						-			+			+			979.2		-	979
Tug Rental	HR	1				1						1	1													1	1		326.4			326
Dredge Pipeline Crew	DAY																												7.8			8
Crew Boat (Hourly Contractor Owned)	HR																															
Crew Boat (24-HR Fully Operated Rental) Survey Boat	HR HR																						-						374.4 93.6			374 94
	DAY																												7.8			8
Trailering/Delivery of Land Based Equipment	EA																												1			1
Pipeline Dredging																																
Marine Survey	HR																										9.0		6.0 6.0			33
Dredging Monthly Cost  Excavation and Disposal - 27 in. Discharge	MO CY		_			-	-					-	1	1									-	-		-	0.46		0.31 0.31 267,400 267,40			2 1,434,100
Excavation and Disposal - 27 in. Discharge  Total		+	+			1	1	+	1		<del>                                     </del>	+	+						+++		+		+	+	+	+	3/4,000	237,900	207,400 207,40	207,400	- 1	.,454,100
Total	1		$\dashv$	<u> </u>	1	1	1	1	1	1	ı	1	I			1	1	Contract 34	<u> </u>	<u> </u>				- 1	I	I.		1				
Mobilization/Demobilization																																
Prelay Submerged Pipeline						1																										
Prelay Submerged Pipeline	LF	<del> </del>		_	<u> </u>	1	-	-	1		-	1	1						+									1				1,500
Submergeed Pipeline Standby Costs Warning Floats	DAY EA	+	+	-		1		-	1		-	+	-	1					+++		_	_	-	+	-	+	+	+			1.0	1
Pickup Submerged Pipeline	LA	<del>                                     </del>	+			1	1	1	1			+	+	1					++	_	+		+	+		+	+	1		+ +	1	
	1				1					1						1	1										1					

	1	1	1															Channel Reach												
		36.3 - 20.0			34.0 -	32.0 -	29.5 -	28.0 -			26.0 -	25.9 -	24.0 -				20.0 - 11.0;	20.0 - 19.2 -	19.1 - 18.0 -	16.0 -	17.7 - 1				13.0 -		11.0 -	80-60	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (3.7)	
		11.0 - 0.0	20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9	24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0		17.8 16.0	13.0	16.7	3.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6.0	6.0 - 4.0 4.0 - 2.0 2.0 - 0.0 (3.7)	
Cost Item	UOM LF			_		1	1	1	1	ı		1	ı	<del>                                      </del>		1 1		O&M	T 1		T T	ı						1 1		Total
r tomap a same goar i pamie	DAY																												5,000	
	EA																												1	1
	HR																												979.2	979
· ·	HR																												326.4	
Ů 1	DAY		-	-								-																	7.8	8
` '	HR HR	1	+	+								1				+													374.4	374
, , , ,	HR		+																										93.6	
	DAY																												7.8	8
Trailering/Delivery of Land Based Equipment	EA																												1	1
Pipeline Dredging																														
	HR								-																				110.0	
	MO CY	1	+	+								1				+													1.58	
Excavation and Disposal - 27 in. Discharge  Total			+																										380,000	580,000
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Mobilization/Demobilization																														
Prelay Submerged Pipeline																														
· · · · · · · · · · · · · · · · · · ·	LF	1		ļ			1							1															1,500	1,500
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· ·	HR																												979.2	979
9	HR																												326.4 7.8	326
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Survey Boat	HR																												93.6	94
	DAY																												7.8	8
	EA																												1	1
Pipeline Dredging	HR	1	+	+								1				+											9.0	6.0	6.0 6.0 6.0	33
,	МО						1																				0.46	0.31	0.31 0.31 0.31	2
	CY																												267,400 267,400 267,400	1,434,100
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Mobilization/Demobilization							-																							
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF		3,000																										3,000	6,000
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ŭ i i	EA		1																										1	2
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· · · · · · · · · · · · · · · · · · ·	LF		3,000																										1,500	
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Deck Barge Pickup Submerged Pipeline	EA	+	12	+			+	+						+		+ -					+								3	15
	LF	1	15,000				†							†															9,000	24,000
Submerged Pipeline Stanby Cost	DAY		10.0																										6.0	16
Warning Floats	EA		1																										1	2
Pickup Shore Pipeline	l F		3,500	1	<u> </u>	<u> </u>	-	-	1		<u> </u>			+		1				_	+ +				<u> </u>			<b> </b>	4 000	4,500
Pickup Shore Pipeline Shore Pipeline Standby Costs	DAY		7.0																										1,000	
· '	DAY		14.0																										2.0	
	HR		1,632.0											1 1							1 1								979.2	
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0 1 11	DAY		7.8						1												$\bot$								7.8	
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` ' '	HR		93.6	+			1	+	1					+					+ +		+ +								93.6	187
,	DAY		7.8	1			<u> </u>		1					†					+ +										7.8	
Trailering/Delivery of Land Based Equipment	EA		1	<u> </u>																									1	2
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Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   Figure   F																															
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Total		DCV			-				21 042	17 120		161 000			100 219	12 101								-							251.960
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	EXCAVACION								21,042	47,420		101,990			109,216	12,191				-						-					331,009
Debit Standy Common   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt   Debt		10101			1		<u> </u>	<u> </u>		<u> </u>								Contract 37			<u> </u>			<u> </u>			<u> </u>				+
Performance   F   F   F   F   F   F   F   F   F	Mobilization/Demobilization																														
Submerged Pipeline Standy Crosts	Prelay Submerged Pipeline																														
Warring Flooring   A	Prelay Submerged Pipeline																9,000														10,500
Prelay Shore Pipeline    Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline   Pelay Shore Pipeline																	6.0														
Fellow Shore Picellane		EA															1												1		2
Shore Pipeline Standby Costs																	2.000	+ +													2,000
Deck Barge				-	-	-			-	-						-		+		_		+		-							
Pickup Submerged Pipeline	,		<del>                                     </del>	+	+	+	1	+	+				<u> </u>		<u> </u>	+		+ +		_	+	+ +		_	+	+	+		+++	<del>                                      </del>	
Pickup Submerged Pipeline   F	Pickup Submerged Pipeline	271	1 1	1	1	1	1	1								1	- <del></del>							_							+
Submerged Pipeline Stanly Cost					L				L								6,000		1		1				1	1	1		9,000		15,000
Pickup Shore Pipeline	Submerged Pipeline Stanby Cost																4.0												6.0		
Pickup Shore Pipeline   F		EA					1	1									1					$\bot$							1		2
Shore Pipeline Standby Costs   DAY				1	$\perp$	1	1	<del>                                     </del>	1					1		1	2 2			_					-	4					20
Deck Barge         DAY         Included the property of Land Based Equipment         Deck Barge         HR         Included the property of Land Based Equipment         EA         Included the property of Land Based Equipment         Included the pr			<del>                                     </del>	1	+	1	+	+	1				1	1	1	+	,	+ +	-+	-	+	+ +	+	+	+			-	+ +	<del>-   -  </del>	
Tug Rental HR										-								+ +						-							
Tig Rental HR				1	+	1	+	1	+			<b>-</b>	1	1	1	1		+ +	-+	-	+	+ +	+	+		-	+		979 2		
Dredge Pipeline Crew         DAY	Tug Rental		1		†				<u> </u>										+				+	+			+				
Crew Boat (Hourly Contractor Owned)     HR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <t< td=""><td>Dredge Pipeline Crew</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>İ</td><td></td><td></td><td></td><td></td><td>j</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Dredge Pipeline Crew				1			1											İ					j							
Survey Boat	Crew Boat (Hourly Contractor Owned)	HR																													
Quarter Boat DAY	Crew Boat (24-HR Fully Operated Rental)																											-			
Trailering/Delivery of Land Based Equipment EA	Survey Boat			1		1		1																							
Rock/Fabrick/Flotation Crew         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY         DAY<	Quarter Boat			1	-	1	-	-								1		+		_					-						
Marsh Cranes (Fully Operated Rental)         HR         Image: Cranes (Fully Operated Rental)         HR         Image: Cranes (Fully Operated Rental)         120.0         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental)         Image: Cranes (Fully Operated Rental			<del>                                     </del>	1	+	1	1	1		-			1	1	1	1		+ +	-+	_	+	+ +		+					1	<del>-  </del>	
Marsh Cranes (Delivery Fee)				1	+	1	-	1	+	-		-	1	1	1	-		+ +	-+		+	+ +	-	+	-	+	+		+ +		
ipeline Dredging         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey         Including Survey<	. , ,		<del>                                     </del>	+	+	+	-	1	+	<del>                                     </del>		<del>                                     </del>	-	-	-	1		+ +		-	+	+ +		_	+	+	+		+ +		
Marine Survey HR 6.9 6.9 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0		LA	1		†	1			<u> </u>										+				+	+			+				+
	Marine Survey	HR			1	1		1	1									6.9		6.9	6.9			1	6.9		9.0	6.0	6.0	6.0 6.0	61
	Dredging Monthly Cost	МО																													

		1	1																												1	
		36.3 - 20.0;	: 36.3 -	- 36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 -	26.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	Channel Reach 20.0 - 19.2 -		18.0 - 16	5.0 -	17.7 - 1	6.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -			.0 -	
		11.0 - 0.0			32.0	29.5	28.0	26.0		25.9			22.0				11.0 - 0.0		17.8									8.0	8.0 - 6.0	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   0	3.7)	
Cost Item	UOM				•	•	•	•	•		•	•				•		O&M	•				•		•	•		•	•			Total
Excavation and Disposal - 27 in. Discharge	CY																	219,600		219,600 3	31,400					254,500		374,000	257,900	267,400 267,400 267,400		2,459,200
Disposal Areas																																
	CY HR		_															8,606		13,240 2	23.2					27,142						74,475
, ,	HR							1										7.8 78.2			23.2					24.7 246.7						68 677
	DAY							+										6.5			19.3					20.6						56
Bank Stabilization	D/(1																	0.5		10.0	15.5					20.0						30
Foreshore Protection																																
, , ,	TON																	19,90	00 3,640			13,480	42,600	18,900	15,180		5,420					119,120
Geotextile																																
	SY																															
Flotation Channel Excavation	BCY							1										135.6	04 29,893			91,516	20 640	253 506	89 178		29,893					950,230
Total	БСТ																	133,0	23,033			31,310	,20,040	233,300	03,170		25,055					330,230
							1	ı	1				1					Contract 38	ı							ı						
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	LF					1	1	1				1								$\perp$									1		1,500	1,500
o i ,	DAY	-	-			1	1	+	1			1							$\perp$	+ +			-						+		1.0	1
Warning Floats Pickup Submerged Pipeline	EA	<del>                                     </del>				1	1	+		<b> </b>		1								+ +									1		1	1
	LF					1	1	+				1								+ +									1		5,000	5,000
	DAY																														3.3	3
ü	EA																														1	1
ÿ	HR																														979.2	979
Ü	HR							-																							326.4	326
Ü	DAY HR							+																							7.8	8
` '	HR							+																							374.4	374
, , , ,	HR																														93.6	94
	DAY																														7.8	8
Trailering/Delivery of Land Based Equipment	EA																														1	1
Pipeline Dredging																																
,	HR		_																												110.0	110
,	MO CY							1																							1.58 80,000	2 580,000
Total	CI																													i i i	00,000	300,000
							1	ı	1				1					Contract 39	ı							ı						
Mobilization/Demobilization																																
Prelay Submerged Pipeline																																
· · · · · · · · · · · · · · · · · · ·	LF					-	-	-				-																		1,500		1,500
· , ,	DAY EA							+																						1.0		1
Pickup Submerged Pipeline	LA																															1
	LF																													9,000		9,000
	DAY																													6.0		6
Ü	EA																													1		1
	HR		-		-	<u> </u>			1			<u> </u>								+-+								-		979.2		979
Ü	HR DAY	1				1	+	+	1	<b> </b>		1		1						+ +										326.4 7.8		326 8
Ü	HR				<del>                                     </del>	+	-	+	1			+		+						+		+								7.0		o
	HR																												-	374.4		374
	HR																													93.6		94
	DAY																													7.8		8
	EA																													1		1
Pipeline Dredging	LIE	-	-			1	1	+	1			1							$\perp$	+ +			-					0.0	6.0	6.0 6.0 6.0		22
	HR MO		-		-	1	1	+	1			1								+ +		+						9.0 0.46				33 2
	CY					1	1	+				1								+ +		+								267,400 267,400 267,400		1,434,100
Total																												,				_,,
																		Contract 40														
Mobilization/Demobilization																																
Prelay Submerged Pipeline						1		1	1			1							$\perp$	$\perp$									1			
rest y cases goal is possible	LF	-	-			1	1	+	1			1							$\perp$	+ +			-						+		1,500	1,500
	DAY EA					+	1	+	1			+		-					+	+ +									+	<del>                                     </del>	1.0	1
Pickup Submerged Pipeline	EН				<del>                                     </del>	+		+	1			+		+					+	+ +								<del>                                     </del>	+	<del>                                     </del>	1	1
	LF	<u> </u>				†		+	1			†							+	<del>                                     </del>									1	<del>                                     </del>	5,000	5,000
	DAY		1			1	1	1	1			1																	1		3.3	3
Warning Floats	EA																														1	1

		1																Channel Reach												
		36.3 - 20.0			34.0 -	32.0 -	29.5 -			26.4 -		25.9 -	24.0 -		23.7 -	22.2 -	20.0 - 11.0;	20.0 - 19.2	19.1 - 18.0			16.9 -		13.1 -	13.0 -		11.0 -	80-60	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (3.7)	
		11.0 - 0.0	20.0	34.0	32.0	29.5	28.0	26.0	27.4	25.9	24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0		17.8 16.0	13.0	16.7	13.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6.0	6.0 - 4.0   4.0 - 2.0   2.0 - 0.0   (3.7)	
	UOM			_		1	1	1		ı		T	1	1 1		1		O&M	<u> </u>	-		T	1	1	_	1		T	I I I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total
Ü	HR HR																		+ +										979. 326.	
Ü	DAY																												7.8	
	HR																													
, , , , , ,	HR																												374.	
,	HR																												93.6	
· ·	DAY EA																		+										7.8	8
Pipeline Dredging	LA																													
	HR																												110.	0 110
,	МО																												1.58	
	CY		_				-														_								580,0	00 580,000
Total			_															Contract 41												
Mobilization/Demobilization								1				1						CONTRACT 41					1	1						
Prelay Submerged Pipeline																														
Prelay Submerged Pipeline	LF	3,000																												3,000
ŭ i	DAY	2.0						1	1			1	1	1								1	1	1	<u> </u>	1		1		2
ŭ	EA	1			-	1		+			-		1	-		1					+	+	1	1	-	+	-			1
Prelay Shore Pipeline Prelay Shore Pipeline	LF	2,500				+		1				+	+	1							+	+			1	+		+		2,500
, ,	DAY	5.0				1		1					<b>†</b>								+	†	1	†	1	†		1		5
·	EA	10																												10
Pickup Submerged Pipeline								1						$\perp$									1							
	LF	15,000																												15,000
0 1 1	DAY EA	10.0																												10
Pickup Shore Pipeline	L/ (																													
	LF	5,000																												5,000
,	DAY	10.0																												10
•	DAY	20.0	_				-														_									20
- v	HR HR	1,306 653	-																+ +											1,306 653
	DAY	7.8																	+ +											8
- '	HR	93.6																												94
, , , , , , , , , , , , , , , , , , , ,	HR	374.4																												374
	HR	93.6	_				-														_									94
	DAY EA	7.8	-																+ +											8
ÿ, , , , , , , , , , , , , , , , , , ,	DAY																													
	HR	120																												120
` ', '	EA	2																												2
Pipeline Dredging	HR			6.0									6.0	6.0													0.0	6.0		
1 11 11	МО			6.9 0.33									6.0 0.29	6.0 0.36					+ +								9.0 0.46	6.0 0.31	6.0 6.0 6.0 0.31 0.31 0.31	52 3
	CY			109,600									109,600																267,400 267,400 267,400	1,762,90
Disposal Areas																														
	CY												31,776																	31,776
, ,	HR				-	1		1	1		-	1	28.9	1							-	1	1	1		1		<del> </del>		29
	HR DAY	-		+	-	+		1	-		-	-	288.9 24.1	+		+				_	+-	+	1		-	+	-	-		289 24
Quarter Bardge Total	_					1		1					24.1	1 1						-	+	+	1	1		+		1		24
1000					1	1		1	1			1	1	1 1		1		Contract 42	1 1			1	1		1	1		1		
Mobilization/Demobilization																														
Prelay Submerged Pipeline						1		1						$\bot$									1					1		
	LF	1			<u> </u>	1		1					<del>                                     </del>	1		<del>                                     </del>						+	-	1	-	+			1,50	
	DAY EA	+			-	1		1			-		+	1							+	+	1	1	-	+			1.0	1
Pickup Submerged Pipeline	2,1	†						1					+	1							1	+	1		1	+				
Pickup Submerged Pipeline	LF																												5,00	0 5,000
· · ·	DAY																												3.3	
Ü	EA	<u> </u>			-	1		<b> </b>			-		1									1	ļ		-	1		-	1	1
U	HR HR	-		+	-	+		1	-		-	-	+	+		+				_	+-	+	1		-	+	-	-	979. 326.	
	DAY				<del>                                     </del>	+		1	-		<del>                                     </del>		+	+							+	+	1	+	1	+		+	7.8	
	HR							1				1	<b>†</b>	1 1								+	1		1	+		1	7.8	
Crew Boat (24-HR Fully Operated Rental)	HR																												374.	
Survey Boat	HR																												93.6	
	DAY				-	1		1	1		-	1	1	1							-	1	1	1		1		<del> </del>	7.8	
Trailering/Delivery of Land Based Equipment	EA								1	<u> </u>			1																1	1

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		36.3 - 20		36.3 -	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 - 26.	.0 - 25	5.9 - 24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;			19.1 -	18.0 -	16.0 - 13.0	17.7 -	16.9 -	15.6 -	13.1 -	13.0 - 11.0	12.7 - 12.3	11.0 -	80.60	60.40	4.0 - 2.0	20.00	0.0 -
		11.0 - 0.0			32.0	29.5	28.0	26.0	27.4	25.9 24.	.0 24	1.1 22.0	20.0	22.4	22.1	11.0 - 0.0			17.8	16.0	13.0	16.7	13.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0	2.0 - 0.0	
Cost Item	UON																0&0	М															Total
Rock/Fabrick/Flotation Crew	DAY																																
Marsh Cranes (Fully Operated Rental)	HR																															$\longrightarrow$	
Marsh Cranes (Delivery Fee)	EA																															$\longrightarrow$	
Pipeline Dredging  Marine Survey	HR																															$\longrightarrow$	110.0 110
Dredging Monthly Cost	MO																1	-	+														1.58 2
Excavation and Disposal - 27 in. Discharge	CY																																580,000 580,000
Executation and Disposal Ex ini Discharge	Total																																300,000
				· ·			1	1	1			-		1	1		Contrac	ct 43	<u> </u>	1	<u> </u>					1	1	1			<u> </u>		
Mobilization/Demobilization																																	
Prelay Submerged Pipeline																																	
Prelay Submerged Pipeline	LF																													1,500			1,500
Submergeed Pipeline Standby Costs	DAY																													1.0			1
Warning Floats	EA																													1			1
Pickup Submerged Pipeline														_	-			-		-													
Pickup Submerged Pipeline	LF																													9,000		$\longrightarrow$	9,000
Submerged Pipeline Stanby Cost	DAY EA																													1			1
Warning Floats Tug Rental	HR		-		-	1	+	1					+	+	1	+	1	1	+	1	-			1	1	1	+	1		979.2		$\longrightarrow$	979
Tug Rental	HR				-	1	+	1					+	+	1	+	1	1	+	1	1			<del> </del>	1	1	+	1		326.4		$\longrightarrow$	326
Dredge Pipeline Crew	DAY				1	1	1	1				<del>-  </del>	1		+	1	1	1	†	1	1	1		1		1	+	1		7.8			8
Crew Boat (Hourly Contractor Owned)	HR																																
Crew Boat (24-HR Fully Operated Rental)	HR														1	1				1						1				374.4			374
Survey Boat	HR																													93.6			94
Quarter Boat	DAY																													7.8			8
Trailering/Delivery of Land Based Equipment	EA																													1			1
Pipeline Dredging																																	
Marine Survey	HR													_	-		1	1	-	-	_	1						9.0	6.0	6.0	6.0	6.0	33
Dredging Monthly Cost	MO																								-			0.46	0.31		0.31	0.31	2
Excavation and Disposal - 27 in. Discharge	CY Total					_								_	-		-	-	-	-	-			-	-			3/4,000	257,900	267,400	267,400	267,400	1,434,100
	rotar																Contrac	ct 44															
Mobilization/Demobilization																	Contrac	1		1												$\overline{}$	<del></del>
Prelay Submerged Pipeline																																	
Prelay Submerged Pipeline	LF																																1,500 1,500
Submergeed Pipeline Standby Costs	DAY																																1.0 1
Warning Floats	EA																																1 1
Pickup Submerged Pipeline																																	
Pickup Submerged Pipeline	LF																																5,000 5,000
Submerged Pipeline Stanby Cost	DAY													_	-		1	1	-	-	_	1											3.3 3
Warning Floats	EA														-				-														1 1 979.2 979
Tug Rental Tug Rental	HR HR																																326.4 326
Dredge Pipeline Crew	DAY																							-					-				7.8 8
Crew Boat (Hourly Contractor Owned)	HR																																7.0
Crew Boat (24-HR Fully Operated Rental)	HR																																374.4 374
Survey Boat	HR						L						1		1			L	1								1		L				93.6 94
Quarter Boat	DAY																																7.8 8
Trailering/Delivery of Land Based Equipment	EA							<u> </u>												1						<u> </u>		1	<u> </u>				1 1
Pipeline Dredging					-	1	1	1						1	1	1	1		1	1	-			1		1		1	1				
Marine Survey	HR		_				-							-	1	-	-	-		-		-		1	-	-	1		-				110.0 110
Dredging Monthly Cost	MO CY																															$\longrightarrow$	1.58 2 580,000 580,000
Excavation and Disposal - 27 in. Discharge	Total																																580,000 580,000
	Total																Contrac	ct 45		l .													
Mobilization/Demobilization	+																Contrac	T -3														$\overline{}$	
Prelay Submerged Pipeline															1	1				1				1	1		1		<b>†</b>				
Prelay Submerged Pipeline	LF														1	1				1						1				1,500			1,500
Submergeed Pipeline Standby Costs	DAY																										<u> </u>			1.0			1
Warning Floats	EA																													1			1
Pickup Submerged Pipeline																										1							
Pickup Submerged Pipeline	LF				_	1	1	ļ					$\perp$			1		1		1	-					1	1	1		9,000			9,000
Submerged Pipeline Stanby Cost	DAY				-	-	1		1						-		1	1		ļ				1		1	1			6.0			6
Warning Floats	EA		_		-	-	-	1						-		-		1	-	1	-	1		-	-	1	1	1		1 070.2			1
Tug Rental	HR				-	-	1	1					-	-	1	+	1	1	+	<del> </del>		1		1	1	+	+	1		979.2			979
Tug Rental  Dredge Pipeline Crew	HR DAY				-		+	-					+-	+		<del>                                     </del>		1	+	1	-	1		1	-	+	+	+		326.4 7.8			326 8
Crew Boat (Hourly Contractor Owned)	HR		-		-	1	+	1					+	+	1	+	1	1	+	1	-			1	1	1	+	1		7.8		$\longrightarrow$	- 8
Crew Boat (Hourly Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR				-	+	+	1				<del>  </del>	+	+		+	<u> </u>	+	+	+	-	+ -		+		+	+	1	1	374.4	I		374
Survey Boat	HR					1	1	1	1					+	1		1	1	+	1				1		1		1		93.6		$\rightarrow$	94
Jan rey boat	1111						1	i .	1							1	1	1		1	1	i		1	1	1	1			23.0			34

		1															Channel	Reach												
	36	6.3 - 20.0;	36.3 -	36.3 -	34.0 -	32.0 - 29	).5 -	28.0 -	27.6 -	26.4 - 26.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;	20.0 -	19.2 -	19.1 -	18.0 -	16.0 -	17.7 - 16.	9 -	15.6 - 13.1 -	13.0 - 12.7	- 11.0 -			0.	.0 -
		1.0 - 0.0	20.0	34.0	32.0	29.5 28	3.0	26.0	27.4	25.9 24.0	24.1	22.0	20.0	22.4	22.1	11.0 - 0.0	18.0	17.5	17.8	16.0		16.7 13.		14.0 11.9		8.0	8.0 - 6.0 6.0 - 4.0	1 4.0 - 2.0 2.0	(3	
	JOM			1	1		1		1	-	1	1	1	1	1		180	М	1		1		-		1 1	1			-	Total
·	DAY A												+												<del>                                     </del>		7.8			8
Pipeline Dredging	A													1	-				1											1
	IR .																									9.0	6.0 6.0	6.0	6.0	33
	ΛO																									0.46			0.31	2
Excavation and Disposal - 27 in. Discharge	CY																									374,00	00 257,900 267,40	267,400 26	7,400	1,434,100
Total																	Combine	-1.46												
Mobilization/Demobilization																	Contra	1 46												
Prelay Submerged Pipeline																														
	.F		3,000																											3,000 6,000
ů i ,	DAY		2.0																											2.0 4
Ü	A		1																											1 2
Prelay Shore Pipeline	_		2 000																									+ +		1.500 1.500
,	.F DAY		3,000 6.0												-															1,500 4,500 3.0 9
·	A A		12	1	1	+ +						-	+	+	+	-	<b> </b>	+	1	<u> </u>	<b>†</b>	<del>                                     </del>				-	+ + +	+ +		3 15
Pickup Submerged Pipeline													1		1															
Pickup Submerged Pipeline L	.F		15,000					_																						9,000 24,000
	DAY		10.0															ļ												6.0 16
Ü	A		1								1		1	1		1		1		1										1 2
Pickup Shore Pipeline	_		3 500			1					1	-	+	1	+	1	ļ	1		1							+	1		1,000 4,500
P P	.F DAY		3,500 7.0		1	+ +					+	+	+	+	+	1	1	+	1	-	1	<del>                                     </del>				-	+ +	+ +		1,000 4,500 2.0 9
, ,	DAY		14.0	1	1	+ +						-	+	+	+	-	<b> </b>	+	1	<u> </u>	<b>†</b>	<del>                                     </del>				-	+ + +	+ +		2.0 9
Ů	IR .		1,632.0																											979.2 2,611
	IR .		979.2																											326.4 1,306
	DAY		7.8																											7.8 16
, , , , , , , , , , , , , , , , , , , ,	DAY		7.8																											187.2 195
	IR IR		93.6												-															94
` ' ' '	IR IR		93.6										-	-	+			-								_	+	+		93.6 187
	DAY		7.8											+	+			+												7.8 16
4.1	A .		1																											1 2
	DAY		10.0																											10
, , ,	IR .		120																											120
, , ,	A		2																											2
Welded Pipeline (7E)															-															
Welding Crew 2 Crew Welding Team	IR .		72												1										<del>                                     </del>					72
	A.		4												+															4
Delivering/Prelaying/Removing Shore Pipeline																														
	.F		2,500																											2,500
Trailering per Load E	A		13																											13
G, G	A		50																											50
	DAY		2.0												-															2
Welding Shore Pipeline 2 Crew Welding Team L	.F		2,500		1	+ +					+	+	+	+	+	1	1	+	1	-	1	<del>                                     </del>				-	+ +	+ +		2,500
	DAY		2.8		1								+		+			†	1		1	<del>                                     </del>					+ + -	+ +		3
Cutting Shore Pipeline													1				1	1			1						1 1			
1 Welder Crew	.F		2,500																											2,500
	DAY		1.4																											1
Shore Pipeline Crew					1						1		1	1	1		ļ	1	1		1									_
	DAY A		7.8		1						+	-	+	1		1	-	1		1					<del>                                     </del>		+	+ +		8 4
Trailering per Load E Jack and Bore Under HWY 57	A		4		1	+ +					+	+	+	+	+	1	1	+	1	-	1	<del>                                     </del>				-	+ +	+ +		4
	.F		300										+					1												300
	CY		40										1		1															40
Land Surveying H	łR		20																											20
Pipeline Dredging																														
,	IR	ļ		6.9			6.9	6.9		6.9	1	6.0	6.0	1		1		1		1										110.0 163
0 0 7	MO					0.45 0 165,800 21		0.41		0.40	_	0.29		,	+	1	ļ	1		1							+	+ +		1.58 5
Excavation and Disposal - 27 in. Discharge C Disposal Areas	CY			109,600	219,60	0 165,800 21	19,600	219,600	-	219,600	J	109,60	109,600	<del>'</del>	+	-	1	1		1		<del>                                     </del>	-+				+ +	+ +	5	80,000 1,953,000
	CY				g	1,356 1	1.916	61,566		86,060	,	3	L,776	+	+	-	1	+		-	1						+ + + - +	+ +		282,674
	HR						10.8	56.0		78.2			28.9		+				1								1 1			257
7 0	IR .					337.1	44.0	227.2		317.6			17.3						L							İ				1,043
	PAY					28.1	3.7	18.9		26.5			9.8																	87
Bank Stabilization					1 _														1										$\Box$	
Foreshore Protection					1														1											

	<u> </u>	1 1													Channel	Poach														1
		36.3 - 20.0;	36.3 - 36.3 -	34.0 - 3	2.0 - 29.5	5 - 28	3.0 - 2	27.6 - 2	26.4 - 26.0 -	25.9 - 24.0 -	22.0 -	23.7 -	22.2 -	20.0 - 11.0;			19.1 -	18.0 - 16.0	17.7 -	16.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -				0.0	0 -
		11.0 - 0.0	20.0 34.0		9.5 28.0					24.1 22.0			22.1	11.0 - 0.0	18.0		19.1 - 17.8	16.0 13.0		13.3	14.0				8.0	8.0 - 6.0	6.0 - 4.0	4.0 - 2.0	2.0 - 0.0	
Cost Item	UOM									<u> </u>	_	1			0&1	VI	1			_			,			,				Total
Stone Placement/Material/Delivery  Geotextile	TON						1	1,900	5,320	21,300		11,820	1,960																	42,300
Fabric Placement/Material/Delivery	SY			+													-													
Flotation Channel	3.									<del> </del>																				
Excavation	BCY						2	21,042	47,428	161,990		109,218	12,191																	351,869
	Total																													
				1			1				1	1	1		Contrac	ct 47	1			1			1			1				
Mobilization/Demobilization										<b> </b>							-													
Prelay Submerged Pipeline Prelay Submerged Pipeline	LF			-				-						0.000													1,500			10,500
Submergeed Pipeline Standby Costs	DAY	+ +								1				9,000 6.0													1.0			7
Warning Floats	EA									<del> </del>				1													1			2
Prelay Shore Pipeline																														
Prelay Shore Pipeline	LF													3,000																3,000
Shore Pipeline Standby Costs	DAY													6.0																6
Deck Barge	EA											1		12																12
Pickup Submerged Pipeline Pickup Submerged Pipeline	LF	1		+-+				-		+	_	1		6,000		1	-	$\vdash$		1	-	+	1	-	-	<u> </u>	9,000	L		15,000
Submerged Pipeline Stanby Cost	DAY	+ +		+ +							+	1		4.0			-	<del>                                     </del>		+	+	+	1		1		6.0		+	10
Warning Floats	EA									† †	1		1	1								1	<u> </u>				1			2
Pickup Shore Pipeline																				1		1								
Pickup Shore Pipeline	LF													2,000																2,000
Shore Pipeline Standby Costs	DAY													4.0																4
Deck Barge	DAY									<del>                                     </del>				4.0		ļ				-		1	ļ			<u> </u>	0=0 =			4 2 205
Tug Rental	HR HR			-				-						1,306.0 653.0													979.2 326.4			2,285 979
Tug Rental  Dredge Pipeline Crew	DAY													7.8													7.8			16
Crew Boat (Hourly Contractor Owned)	HR													93.6													7.0			94
Crew Boat (24-HR Fully Operated Rental)	HR													374.4												ı	374.4			749
Survey Boat	HR													93.6													93.6			187
Quarter Boat	DAY													7.8													7.8			16
Trailering/Delivery of Land Based Equipment	EA	1												1.0												1	1			2
Rock/Fabrick/Flotation Crew	DAY HR									-				10 120.0			-													10 120
Marsh Cranes (Fully Operated Rental)  Marsh Cranes (Delivery Fee)	EA													2																2
Pipeline Dredging										<del> </del>																				-
Marine Survey	HR														6.9			6.9	.9				6.9		9.0	6.0	6.0	6.0	6.0	61
Dredging Monthly Cost	МО														0.38			0.43 0					0.34		0.46		0.31		0.31	3
Excavation and Disposal - 27 in. Discharge	CY														219,600			219,600 331	,400				254,500		374,000	257,900	267,400	267,400	267,400	2,459,200
Disposal Areas  Dike Construction	CY									1					0.000			25 407					27.142							C4 225
Land Surveying	HR									+					8,606 7.8			25,487 23.2					27,142 24.7							61,235 56
Marsh Crane Crew	HR														78.2			231.7					246.7							557
Quarter Bardge	DAY														6.5			19.3					20.6							46
Bank Stabilization																														
Foreshore Protection																														
Stone Placement/Material/Delivery	TON			+						<del>                                     </del>						19,900	3,640		13,480	42,600	18,900	15,180	<b> </b>	5,420	-	<u> </u>	ļ			119,120
Geotextile Fabric Placement/Material/Delivery	SY			+						+	_		<del>                                     </del>			1	1			-	1	1	<del>                                     </del>		<del>                                     </del>	1	-			
Flotation Channel	31			+ +						+ +	+		+ +				1	+ +		+	+	+	<del>                                     </del>		1	<u> </u>	<u> </u>			
Excavation	BCY									1	1					135,604	29,893		91,516	320,640	253,506	89,178		29,893						950,230
	Total																						<u>L</u>		<u> </u>	<u></u>				
															Contrac	ct 48														
Mobilization/Demobilization				1						<del>                                     </del>			$oxed{ig }$								1		1			ļ	<u> </u>			
Prelay Submerged Pipeline				+						<del>                                     </del>						<b> </b>				1	-	1	<b> </b>		-	<u> </u>		<u> </u>		1.500 4.500
Prelay Submerged Pipeline Submergeed Pipeline Standby Costs	LF DAY			+						+	_		<del>                                     </del>			1	1			-	1	1	<del>                                     </del>		<del>                                     </del>	1	-			1,500 1,500 1.0 1
Warning Floats	EA			+ +						+ +	-		+ +			1				+	1	+	1			1	-			1.0 1
Pickup Submerged Pipeline	LA									† †	1		1									1	<u> </u>				<u> </u>			-   -
Pickup Submerged Pipeline	LF																				<u>L</u>									5,000 5,000
Submerged Pipeline Stanby Cost	DAY																													3.3 3
Warning Floats	EA			1						<del>                                     </del>			$oxed{ig }$								1		1			ļ	<u> </u>			1 1
Tug Rental	HR			+						+ +			<b> </b>			<b> </b>	<u> </u>			-	1	1	<b> </b>		<u> </u>	<b> </b>	<u> </u>			979.2 979
T D	HR	1								+	_		<del>                                     </del>			1	1			-	1	1	<del>                                     </del>		<del>                                     </del>	1	-			326.4 326 7.8 8
Tug Rental	ראם								1		1					i	i	1 1			i	1	1	i	1	1	1	1	<b> </b>	7.0 ŏ
Dredge Pipeline Crew	DAY		<u> </u>	+ +	+			-		† †																				
Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned)	HR																												3	374.4 374
Dredge Pipeline Crew																														374.4 374 93.6 94
Dredge Pipeline Crew Crew Boat (Hourly Contractor Owned) Crew Boat (24-HR Fully Operated Rental)	HR HR																													

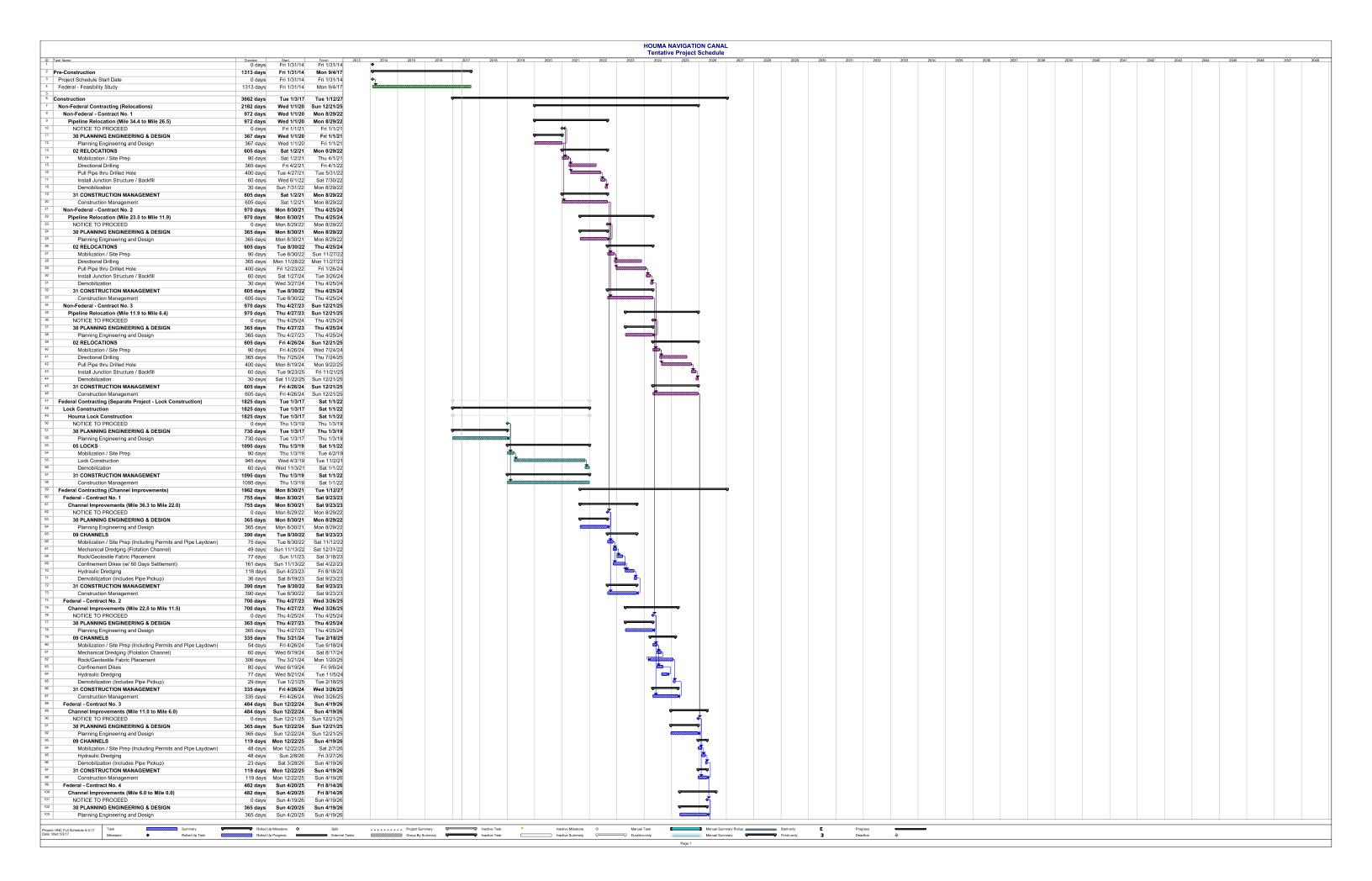
																			hannel Re	ach																
		36.3 - 20.0;	36.3 - 36	6.3 - 3	34.0 -	32.0 -	29.5 -	28.0 -	27.6 -	26.4 -	26.0 -	25.9 -	24.0 -	22.0 -	23.7 -	22.3	.2 - 20.0	0 - 11.0; 2			19.1 -	18.0 -	16.0 -	17.7 -	16.9 -	15.6 -	13.1 -	13.0 -	12.7 -	11.0 -			$\neg$		0.0 -	$\overline{}$
									27.4	25.9	24.0	24.1	22.0	20.0	22.4		.1 11.0				17.8	16.0	13.0		13.3	14.0	11.9	11.0	12.3	8.0	8.0 - 6	6.0 - 4	.0 4.0 - 2	2.0 - 0.0	(3.7)	1
Cost Item	UON						1=0.0	120.0	1=2	1=0.5	1		1		1			<u> </u>	0&M		127.0	120.0	120.0	1-0	20.0	1	122.5	122.0	1	10.0				L	(0.7)	Total
Pipeline Dredging		1					1		1	1					1																		$\overline{}$			
Marine Survey	HR									1																			-	-			+		110.0	110
Dredging Monthly Cost	МО									1																			-	-			+		1.58	2
Excavation and Disposal - 27 in. Discharge	CY										-								-		-		-				-			-	_		+-		580,000	580,000
Excavation and Disposar 27 III. Discharge	Total									1																			-	-			+		300,000	300,000
	Total							1		ı	1								Contract 4	10	1						1				_			_		
Mobilization/Demobilization							1		1	1	1				1		1		Contract .	43						1	1	1					$\neg$		$\overline{}$	
Prelay Submerged Pipeline										1																			-	-			+		$\vdash$	
Prelay Submerged Pipeline  Prelay Submerged Pipeline	LF									1																			-	-		1,500			$\vdash$	1,500
Submergeed Pipeline Standby Costs	DAY										-								-		-		-				-			-		1.0			$\vdash$	1,300
Warning Floats	EA									1																			-	-		1.0			$\vdash$	1
Pickup Submerged Pipeline	LA									1																			-	-			$\overline{}$		$\vdash$	
Pickup Submerged Pipeline	LF										-								-		-		-				-			-		9,000			$\vdash$	9,000
Submerged Pipeline Stanby Cost	DAY	+		+				<del>                                     </del>	+	+	+	+	+	+	+	+	-		+		+		+	+		+	<del>                                     </del>	+	+	+		6.0				6
Warning Floats	EA	+		+				<del>                                     </del>	+	+	+	+	+	+	+	+	-		+		+		+	+		+	<del>                                     </del>	+	+	+		1				1
Tug Rental	HR	+		+				<del>                                     </del>	+	+	+	+	+	+	+	+	-		+		+		+	+		+	<del>                                     </del>	+	+	+		979.2	2			979
Tug Rental	HR	+										-									1						1					326.4			$\vdash$	326
Dredge Pipeline Crew	DAY										-								-		-		-				-			-		7.8			$\vdash$	8
Crew Boat (Hourly Contractor Owned)	HR	+										-									1						1					7.0	$\overline{}$		$\vdash$	
Crew Boat (110thly Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	+										-									1						1					374.4	1		$\vdash$	374
Survey Boat	HR	+										-									1						1					93.6			$\vdash$	94
Quarter Boat	DAY										1																					7.8			$\vdash$	8
Trailering/Delivery of Land Based Equipment	EA																															1			-	1
Pipeline Dredging	EA	+										-									1						1						$\overline{}$		$\vdash$	
Marine Survey	HR										1																			9.0	6.0	6.0	6.0	6.0	$\vdash$	33
Dredging Monthly Cost	MO	+										-									1						1			0.46					$\vdash$	2
Excavation and Disposal - 27 in. Discharge	CY	+										-									1						1							00 267,400	$\vdash$	1,434,10
Excavation and Disposar - 27 III. Discharge	Total									1																			-	374,0	00 237,3	207,40	70 207,4	207,400	$\vdash$	1,434,10
	Total				J		ļ .			I .									Contract !	50																
Mobilization/Demobilization							1		1	1	1				1		1		Contract .	30						1	1	1					$\neg$		$\overline{}$	
Prelay Submerged Pipeline											1																						+-		$\vdash$	
Prelay Submerged Pipeline  Prelay Submerged Pipeline	LF	+										-									1						1						+		1,500	1,500
Submergeed Pipeline Standby Costs	DAY	+										-									1						1						+		1.0	1,300
Warning Floats	EA	+										-									1						1						+		1.0	1
Pickup Submerged Pipeline	LA.									1																			-	-			+		-	
Pickup Submerged Pipeline	I F										-								-		-		-				-			-	_		+-		5,000	5,000
Submerged Pipeline Stanby Cost	DAY	+										-									1						1						+		3.3	3,000
Warning Floats	EA	+						+	+	+	1	+	-	-	+	_			1		1		+			+	1	+		+			+	+	3.3	1
Tug Rental	HR	+										-									1						1						+		979.2	979
Tug Rental	HR										1																						+-		326.4	326
Dredge Pipeline Crew	DAY	+						1	1	1	1		-	-	+	+		+	-		1		+	+		+	1	+	-	-		-	+-		7.8	8
Crew Boat (Hourly Contractor Owned)	HR	+	-					<del>                                     </del>	+	+	<del>                                     </del>	+	+	+	+	+-	-		+		<del>                                     </del>		+	+		+	+	+		+	-		+-	+	7.0	
Crew Boat (Adury Contractor Owned)  Crew Boat (24-HR Fully Operated Rental)	HR	+						1	1	1	1		-	-	+	+		+	-		1		+	+		+	1	+	-	-		-	+-		374.4	374
Survey Boat	HR	+		+				<del>                                     </del>	+	+	+	+	+	+	+	+	-		+		+		+	+		+	<del>                                     </del>	+	+	+	+	-	+	+	93.6	94
Quarter Boat	DAY	+						+	+	+	1	+	-	-	+	_			1		1		+			+	1	+		+			+	+	7.8	8
Trailering/Delivery of Land Based Equipment	EA	+						1	1	1	1		-	-	+	+		+	-		1		+	+		+	1	+	-	-		-	+-		1.0	1
Pipeline Dredging	EA	+						1		1	1		-	-	+			+			1		+	+ -			1	+	-	-			+-	1	1	
Marine Survey	HR	+						+		1	1	+	+	+	+	-		+			1	-	+			1	1	+		+		-	+-	+	110.0	110
Dredging Monthly Cost	MO	+						+		1	1	+	+	+	+	-		+			1	-	+			1	1	+		+		-	+-	+	1.58	2
,		+ +	-					-		1	-	-	-	-	+	_		+	-		-		+	1		-	-	-		-			+	_		
Excavation and Disposal - 27 in. Discharge	CY																																		580,000	580,000

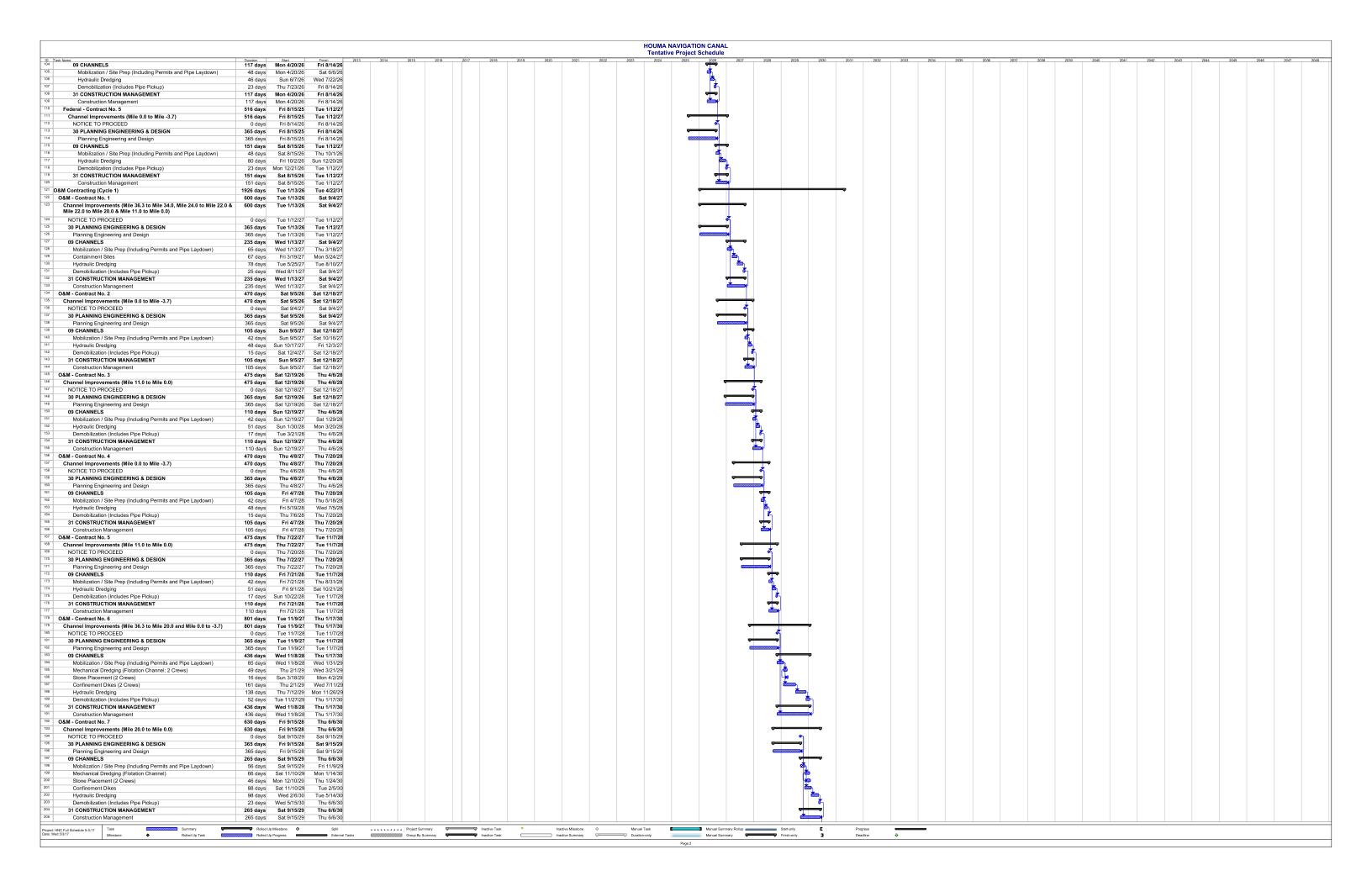
# APPENDIX C

Tentative Project Schedule

Construction Work
O&M Work

	O&M Work									T		T	1	1	П	1	T					П		П	П	
O&M Year	Fiscal Year	O&M Contract	River Mile River 36.3 to 34.0	rer Mile 0 to 32.0	River Mile 32.0 to 29.5	River Mile 29.5 to 28.0	River Mile 28.0 to 26.0	River Mile 26.0 to 24.0	River Mile 24.0 to 22.0	River Mile 23.6 to 22.0 (east bank)	River Mile 22.8 to 20.7 (west bank)	River Mile 22.0 to 20.0	River Mile 20.0 to 18.0	River Mile 19.1 to 17.8 (west bank)	River Mile 19.2 to 17.7 (east bank)	River Mile 18.0 to 16.0	River Mile 17.6 to 16.6 (west bank)	River Mile 16.0 to 13.0	River Mile 16.9 to 13.3 (east bank)	River Mile 13.0 to 11.0	River Mile 13.1 to 11.9 (west bank)	River Mile 12.6 to 12.3 (east bank)	River Mile 11.0 to 5.0	River Mile 5.0 to 1.5	River Mile 1.5 to 0.0	River Mile 0.0 to -3.5
YR00	FY21					Fed	eral Contract No	s. 1																		
YR01	FY22												1	<u> </u>		Fed	leral Contract N	lo. 2				<u>I</u>				
YR02	FY23																						Federal Contract No.			
YR03	FY24																						3	Federal Co	ntract No. 4	
																										Federal
YR04	FY25																						Dredging	Dredging		Contract No. 5
YR05	FY26	OM01	Dredging 105,000-CY						Dredging 105,000-CY			Dredging 105,000-CY											770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR06	FY27	OM02																								Dredging 640,000-CY
YR07	FY28	OM03																					Dredging 770,560-CY, 18,250-CY Dike	Dredging 470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR08	FY29	OM04																					DIKE	DIKE		Dredging 640,000-CY
YR09	FY30	OM05																					Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR10	FY31	OM06	Dredging 210,	redging ,000-CY,	Dredging 158,000-CY,	Dredging 158,000-CY,	Dredging 210,000-CY,	Dredging	Dredging 105,000-CY,	Stone Placement	Stone Placement	Dredging											Dike	Dike	201,000-С1	Dredging
1810	F131	OMU6	105,000-CY 8,9	900-LF Dikes	1,100-LF Dikes, Pipe Corridor	Pipe Corridor	Pipe Corridor	210,000-CY	2,500-LF Dikes, Pipe Corridor	14,400-TON	26,000-TON	105,000-CY	Decideles	Stone	Stone	Dredging	Stone	Decideles	Stone	Dredging	Stone	Stone	Dredging	Dredging 470,640-CY,	Decide le c	640,000-CY
YR11	FY32	OM07											Dredging 210,000-CY	Placement 15,800-TON	Placement 20,400-TON	210,000-CY, Pipe Corridor	Placement 12,000-TON	Dredging 316,000-CY	Placement	240,000-CY, Pipe Corridor	Placement 16,200-TON	Placement 5,900-TON	770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR12	FY33	OM08																								Dredging 640,000-CY
YR13	FY34	OM09																					Dredging 770,560-CY, 18,250-CY Dike	Dredging 470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR14	FY35	OM10																								Dredging 640,000-CY
YR15	FY36	OM11	Dredging 105,000-CY						Dredging 105,000-CY			Dredging 105,000-CY											Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR16	FY37	OM12										,											Dike	Dike		Dredging
																							Dredging 770,560-CY,	Dredging 470,640-CY,	Dredging	640,000-CY
YR17	FY38	OM13																					18,250-CY Dike	41,750-CY Dike	201,600-CY	
YR18	FY39	OM14																					Dredging	Dradaina		Dredging 640,000-CY
YR19	FY40	OM15																					770,560-CY, 18,250-CY Dike	Dredging 470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR20	FY41	OM16	Dredging 210,0 105,000-CY 8,9	redging ,000-CY, 900-LF Dikes	Dredging 158,000-CY, 1,100-LF Dikes	Dredging 158,000-CY	Dredging 210,000-CY	Dredging 210,000-CY	Dredging 105,000-CY, 2,500-LF Dikes	Stone Placement 14,400-TON	Stone Placement 26,000-TON	Dredging 105,000-CY														Dredging 640,000-CY
YR21	FY42	OM17		DIKES	DINES				DIKES				Dredging 210,000-CY	Stone Placement 15,800-TON	Stone Placement 20,400-TON	Dredging 210,000-CY	Stone Placement 12,000-TON	Dredging 316,000-CY	Stone Placement 45,800-TON	Dredging 240,000-CY	Stone Placement 16,200-TON	Stone Placement 5,900-TON	Dredging 770,560-CY, 18,250-CY	41,750-CY	Dredging 201,600-CY	
YR22	FY43	OM18												13,800-1 ON	20,400-1014		12,000°10N		45,800-1 ON		16,200-1 ON	5,900-TON	Dike	Dike		Dredging 640,000-CY
YR23	FY44	OM19																					Dredging 770,560-CY,	Dredging 470,640-CY,	Dredging 201,600-CY	840,000-С1
1823	F144	OW19																					18,250-CY Dike	41,750-CY Dike	201,600-CY	Dandalas
YR24	FY45	OM20																					Dredging	Dredging		Dredging 640,000-CY
YR25	FY46	OM21	Dredging 105,000-CY						Dredging 105,000-CY			Dredging 105,000-CY											770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR26	FY47	OM22																								Dredging 640,000-CY
YR27	FY48	OM23																					Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR28	FY49	OM24																					Dike	Dike		Dredging 640,000-CY
YR29	FY50	OM25																					Dredging 770,560-CY,	Dredging 470,640-CY,	Dredging	040,000-01
			Dredging 210.0	redging ,000-CY,	Dredging 158,000-CY,	Dredging	Dredging	Dredging	Dredging 105,000-CY,	Stone	Stone	Dredging											18,250-CY Dike	41,750-CY Dike	201,600-CY	Dredging
YR30	FY51	OM26	105,000-CY 8,9	900-LF Dikes	1,100-LF Dikes	158,000-CY		210,000-CY	2,500-LF Dikes	Placement 14,400-TON	Placement 26,000-TON	105,000-CY		Stone	Stone		Stone		Stone		Stone	Stone	Dredging	Dredging		640,000-CY
YR31	FY52	OM27											Dredging 210,000-CY	Placement 15,800-TON	Placement 20,400-TON	Dredging 210,000-CY	Placement 12,000-TON	Dredging 316,000-CY	Placement 45,800-TON	Dredging 240,000-CY	Placement 16,200-TON	Placement 5,900-TON	770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR32	FY53	OM28																								Dredging 640,000-CY
YR33	FY54	OM29																					Dredging 770,560-CY, 18,250-CY Dike	Dredging 470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR34	FY55	OM30																					Dillo	Dillo		Dredging 640,000-CY
YR35	FY56	OM31	Dredging 105,000-CY						Dredging 105,000-CY			Dredging 105,000-CY											Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR36	FY57	OM32	,000-01						. 30,000-01			. 30,000°C T											18,250-CY Dike	Dike	_51,000*61	Dredging
																							Dredging 770.560-CY.	Dredging 470,640-CY,	Dredelac	640,000-CY
YR37	FY58	OM33																					770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR38	FY59	OM34																					Dredging	Dredging		Dredging 640,000-CY
YR39	FY60	OM35																					770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR40	FY61	OM36	Dredging 210,0 105,000-CY 8,9	redging ,000-CY, 900-LF Dikes	Dredging 158,000-CY, 1,100-LF Dikes	Dredging 158,000-CY	Dredging 210,000-CY	Dredging 210,000-CY	Dredging 105,000-CY, 2,500-LF Dikes	Stone Placement 14,400-TON	Stone Placement 26,000-TON	Dredging 105,000-CY														Dredging 640,000-CY
YR41	FY62	OM37											Dredging 210,000-CY	Stone Placement 15,800-TON	Stone Placement 20,400-TON	Dredging 210,000-CY	Stone Placement 12,000-TON	Dredging 316,000-CY	Stone Placement 45,800-TON	Dredging 240,000-CY	Stone Placement 16,200-TON	Stone Placement 5,900-TON	Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR42	FY63	OM38												, SN	,		,		, 1011		,	,	Dike	Dike		Dredging 640,000-CY
YR43	FY64	OM39																					Dredging 770,560-CY,	Dredging 470,640-CY,	Dredging	
																							18,250-CY Dike	41,750-CY Dike	201,600-CY	Dredging
YR44	FY65	OM40																					Dredging	Dredging		640,000-CY
YR45	FY66	OM41	Dredging 105,000-CY						Dredging 105,000-CY			Dredging 105,000-CY											770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR46	FY67	OM42																								Dredging 640,000-CY
YR47	FY68	OM43									-												Dredging 770,560-CY, 18,250-CY	Dredging 470,640-CY, 41,750-CY	Dredging 201,600-CY	
YR48	FY69	OM44																					Dike	Dike		Dredging 640,000-CY
YR49	FY70	OM45																					Dredging 770,560-CY,	Dredging 470,640-CY,	Dredging	
			Dredging 210,0	redging ,000-CY,	Dredging 158,000-CY,	Dredging	Dredging	Dredging	Dredging 105,000-CY,	Stone	Stone	Dredging											18,250-CY Dike	41,750-CY Dike	201,600-CY	Dredging
YR50	FY71	OM46	105,000-CY 8,9	900-LF Dikes	1,100-LF Dikes	158,000-CY	210,000-CY	210,000-CY	2,500-LF Dikes	Placement 14,400-TON	Placement 26,000-TON	Dredging 105,000-CY	5	Stone	Stone	S- 11	Stone	Person	Stone	D	Stone	Stone	Dredging 770 560 CV	Dredging 470 640 CV	P	640,000-CY
YR51	FY72	OM47											Dredging 210,000-CY	Placement 15,800-TON	Placement 20,400-TON	Dredging 210,000-CY	Placement 12,000-TON	Dredging 316,000-CY	Placement 45,800-TON	Dredging 240,000-CY	Placement 16,200-TON	Placement 5,900-TON	770,560-CY, 18,250-CY Dike	470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR52	FY73	OM48																								Dredging 640,000-CY
YR53	FY74	OM49		1																			Dredging 770,560-CY, 18,250-CY Dike	Dredging 470,640-CY, 41,750-CY Dike	Dredging 201,600-CY	
YR54	FY75	OM50																					DIKE	DIKE		Dredging 640,000-CY
													<u> </u>	<u> </u>		<u> </u>										.,





		HOUMA NAVIGATION CANAL Tentative Project Schedule
Task Name	Duration         Start         Finish         2013         2014         2015         2016         2017         2018	Tentative Project Schedule 2019 2020 2021 2022 2023 2024 2025 2028 2027 2028 2029 2030 2031 2032 2033 2034 2035 2038 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046
Task Name. O&M - Contract No. 8 Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Thu 6/7/29 Thu 9/19/30 470 days Thu 6/7/29 Thu 9/19/30	
NOTICE TO PROCEED	0 days Fri 6/7/30 Fri 6/7/30	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 6/7/29 Fri 6/7/30	
Planning Engineering and Design	365 days Thu 6/7/29 Fri 6/7/30	
09 CHANNELS  Mobilization / Site Prop / Including Permits and Dine Laudeum	105 days Fri 6/7/30 Thu 9/19/30	
Mobilization / Site Prep (Including Permits and Pipe Laydown) Hydraulic Dredging	42 days Fri 6/7/30 Thu 7/18/30 48 days Fri 7/19/30 Wed 9/4/30	
Demobilization (Includes Pipe Pickup)	15 days Thu 9/5/30 Thu 9/19/30	
31 CONSTRUCTION MANAGEMENT	105 days Fri 6/7/30 Thu 9/19/30	
Construction Management	105 days Fri 6/7/30 Thu 9/19/30	
O&M - Contract No. 9	475 days Thu 9/20/29 Tue 1/7/31	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Thu 9/20/29 Tue 1/7/31	
NOTICE TO PROCEED	0 days Fri 9/20/30 Fri 9/20/30	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 9/20/29 Fri 9/20/30	
Planning Engineering and Design	365 days Thu 9/20/29 Fri 9/20/30	
09 CHANNELS	110 days Fri 9/20/30 Tue 1/7/31	
Mobilization / Site Prep (Including Permits and Pipe Laydown) Hydraulic Dredging	42 days Fri 9/20/30 Thu 10/31/30 51 days Fri 11/1/30 Sat 12/21/30	
Demobilization (Includes Pipe Pickup)	17 days Sun 12/22/30 Tue 1/7/31	
31 CONSTRUCTION MANAGEMENT	110 days Fri 9/20/30 Tue 1/7/31	
Construction Management	110 days Fri 9/20/30 Tue 1/7/31	
O&M - Contract No. 10	470 days Tue 1/8/30 Tue 4/22/31	
Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Tue 1/8/30 Tue 4/22/31	
NOTICE TO PROCEED	0 days Wed 1/8/31 Wed 1/8/31	
30 PLANNING ENGINEERING & DESIGN	365 days Tue 1/8/30 Wed 1/8/31	
Planning Engineering and Design	365 days Tue 1/8/30 Wed 1/8/31	
09 CHANNELS	105 days Wed 1/8/31 Tue 4/22/31	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Wed 1/8/31 Tue 2/18/31	
Hydraulic Dredging	48 days Wed 2/19/31 Mon 4/7/31	
Demobilization (Includes Pipe Pickup) 31 CONSTRUCTION MANAGEMENT	15 days Tue 4/8/31 Tue 4/22/31 105 days Wed 1/8/31 Tue 4/22/31	
Construction Management	105 days Wed 1/8/31 Tue 4/22/31 105 days Wed 1/8/31 Tue 4/22/31	
D&M Contracting (Cycle 2)	2047 days Tue 4/23/30 Thu 11/29/35	
O&M - Contract No. 11	598 days Tue 4/23/30 Thu 11/29/33	
Channel Improvements (Mile 36.3 to Mile 34.0, Mile 24.0 to Mile 22.0 8		
Mile 22.0 to Mile 20.0 & Mile 11.0 to Mile 0.0)		
NOTICE TO PROCEED	0 days Tue 4/22/31 Tue 4/22/31	
30 PLANNING ENGINEERING & DESIGN	365 days Tue 4/23/30 Tue 4/22/31	
Planning Engineering and Design	365 days Tue 4/23/30 Tue 4/22/31	
09 CHANNELS  Mahilipation / Site Page / Including Page its and Pine Laudeum	233 days Wed 4/23/31 Thu 12/11/31	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	65 days Wed 4/23/31 Thu 6/26/31	
Containment Sites Hydraulic Dredging	67 days Fri 6/27/31 Mon 9/1/31 78 days Tue 9/2/31 Tue 11/18/31	
Demobilization (Includes Pipe Pickup)	23 days Wed 11/19/31 Thu 12/11/31	
31 CONSTRUCTION MANAGEMENT	233 days Wed 4/23/31 Thu 12/11/31	
Construction Management	233 days Wed 4/23/31 Thu 12/11/31	
O&M - Contract No. 12	470 days Thu 12/12/30 Thu 3/25/32	
Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Thu 12/12/30 Thu 3/25/32	
NOTICE TO PROCEED	0 days Thu 12/11/31 Thu 12/11/31	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 12/12/30 Thu 12/11/31	
Planning Engineering and Design	365 days Thu 12/12/30 Thu 12/11/31	
09 CHANNELS	105 days Fri 12/12/31 Thu 3/25/32	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Fri 12/12/31 Thu 1/22/32	
Hydraulic Dredging  Demobilization (Includes Pipe Pickup)	48 days Fri 1/23/32 Wed 3/10/32 15 days Thu 3/11/32 Thu 3/25/32	
31 CONSTRUCTION MANAGEMENT	15 days Fri 12/12/31 Thu 3/25/32	
Construction Management	105 days Fri 12/12/31 Thu 3/25/32	
O&M - Contract No. 13	475 days Thu 3/27/31 Tue 7/13/32	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Thu 3/27/31 Tue 7/13/32	
NOTICE TO PROCEED	0 days Thu 3/25/32 Thu 3/25/32	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 3/27/31 Thu 3/25/32	
Planning Engineering and Design	365 days Thu 3/27/31 Thu 3/25/32	
09 CHANNELS	110 days Fri 3/26/32 Tue 7/13/32	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Fri 3/26/32 Thu 5/6/32	
Hydraulic Dredging	51 days Fri 5/7/32 Sat 6/26/32	
Demobilization (Includes Pipe Pickup) 31 CONSTRUCTION MANAGEMENT	17 days Sun 6/27/32 Tue 7/13/32 110 days Fri 3/26/32 Tue 7/13/32	
Construction Management	110 days Fri 3/26/32 Tue 7/13/32	
O&M - Contract No. 14	470 days Tue 7/15/31 Tue 10/26/32	
Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Tue 7/15/31 Tue 10/26/32	
NOTICE TO PROCEED	0 days Tue 7/13/32 Tue 7/13/32	
30 PLANNING ENGINEERING & DESIGN	365 days Tue 7/15/31 Tue 7/13/32	
Planning Engineering and Design	365 days Tue 7/15/31 Tue 7/13/32	
09 CHANNELS	105 days Wed 7/14/32 Tue 10/26/32	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Wed 7/14/32 Tue 8/24/32	
Hydraulic Dredging	48 days Wed 8/25/32 Mon 10/11/32	
Demobilization (Includes Pipe Pickup)	15 days Tue 10/12/32 Tue 10/26/32	
31 CONSTRUCTION MANAGEMENT  Construction Management	105 days Wed 7/14/32 Tue 10/26/32 105 days Wed 7/14/32 Tue 10/26/32	
Construction Management  O&M - Contract No. 15	105 days Wed //14/32 Tue 10/25/32 475 days Tue 10/28/31 Sun 2/13/33	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Tue 10/28/31 Sun 2/13/33 475 days Tue 10/28/31 Sun 2/13/33	
NOTICE TO PROCEED	0 days Tue 10/26/32 Tue 10/26/32	
30 PLANNING ENGINEERING & DESIGN	365 days	
Planning Engineering and Design	365 days	
09 CHANNELS	110 days Wed 10/27/32 Sun 2/13/33	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Wed 10/27/32 Tue 12/7/32	
Hydraulic Dredging	51 days Wed 12/8/32 Thu 1/27/33	
Demobilization (Includes Pipe Pickup)	17 days Fri 1/28/33 Sun 2/13/33	
31 CONSTRUCTION MANAGEMENT	110 days Wed 10/27/32 Sun 2/13/33	
Construction Management	110 days Wed 10/27/32 Sun 2/13/33	
O&M - Contract No. 16	799 days Sun 2/15/32 Sun 4/23/34	
Channel Improvements (Mile 36.3 to Mile 20.0 and Mile 0.0 to -3.7)	799 days Sun 2/15/32 Sun 4/23/34	
NOTICE TO PROCEED	0 days Sun 2/13/33 Sun 2/13/33	
30 PLANNING ENGINEERING & DESIGN	365 days Sun 2/15/32 Sun 2/13/33	
Planning Engineering and Design  09 CHANNELS	365 days Sun 2/15/32 Sun 2/13/33 434 days Mon 2/14/33 Sun 4/23/34	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	434 days Mon 2/14/33 Sun 4/23/34 85 days Mon 2/14/33 Mon 5/9/33	
Mechanical Dredging (Flotation Channel; 2 Crews)	85 days Mon 2/14/33 Mon 5/9/33 49 days Tue 5/10/33 Mon 6/27/33	
Stone Placement (2 Crews)	49 days Fri 6/24/33 Sat 7/9/33	
Confinement Dikes (2 Crews)	16 days Tue 5/10/33 Mon 10/17/33	
Hydraulic Dredging	136 days Tue 10/18/33 Thu 3/2/34	
nydraulic Dredging		
Demobilization (Includes Pipe Pickup)	52 days Fri 3/3/34 Sun 4/23/34	

		HOUMA NAVIGATION CANAL Tentative Project Schedule
Task Name. 31 CONSTRUCTION MANAGEMENT	Duration Start Finish 2013 2014 2015 2016 2017 2018 2 434 days Mon 2/14/33 Sun 4/23/34	2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046
Construction Management	434 days Mon 2/14/33 Sun 4/23/34	
O&M - Contract No. 17	630 days Sun 4/24/33 Sat 1/13/35	
Channel Improvements (Mile 20.0 to Mile 0.0)  NOTICE TO PROCEED	630 days Sun 4/24/33 Sat 1/13/35 0 days Sun 4/23/34 Sun 4/23/34	
30 PLANNING ENGINEERING & DESIGN	365 days Sun 4/24/33 Sun 4/23/34	
Planning Engineering and Design	365 days Sun 4/24/33 Sun 4/23/34	
09 CHANNELS	265 days Mon 4/24/34 Sat 1/13/35	
Mobilization / Site Prep (Including Permits and Pipe Laydown)  Mechanical Dredging (Flotation Channel)	56 days Mon 4/24/34 Sun 6/18/34 66 days Mon 6/19/34 Wed 8/23/34	
Stone Placement (2 Crews)	46 days Wed 7/19/34 Sat 9/2/34	
Confinement Dikes	88 days Mon 6/19/34 Thu 9/14/34	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	98 days Fri 9/15/34 Thu 12/21/34 23 days Fri 12/22/34 Sat 1/13/35	
31 CONSTRUCTION MANAGEMENT	265 days Mon 4/24/34 Sat 1/13/35	
Construction Management	265 days Mon 4/24/34 Sat 1/13/35	
O&M - Contract No. 18	470 days Sat 1/14/34 Sat 4/28/35	
Channel Improvements (Mile 0.0 to Mile -3.7)  NOTICE TO PROCEED	470 days Sat 1/14/34 Sat 4/28/35 0 days Sat 1/13/35 Sat 1/13/35	
30 PLANNING ENGINEERING & DESIGN	365 days Sat 1/13/35 Sat 1/13/35	
Planning Engineering and Design	365 days Sat 1/14/34 Sat 1/13/35	
09 CHANNELS	105 days Sun 1/14/35 Sat 4/28/35	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Sun 1/14/35 Sat 2/24/35	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	48 days Sun 2/25/35 Fri 4/13/35 15 days Sat 4/14/35 Sat 4/28/35	
31 CONSTRUCTION MANAGEMENT	105 days Sun 1/14/35 Sat 4/28/35	
Construction Management	105 days Sun 1/14/35 Sat 4/28/35	
O&M - Contract No. 19	475 days Sat 4/29/34 Thu 8/16/35	
Channel Improvements (Mile 11.0 to Mile 0.0)  NOTICE TO PROCEED	475 days Sat 4/29/34 Thu 8/16/35 0 days Sat 4/28/35 Sat 4/28/35	
30 PLANNING ENGINEERING & DESIGN	0 days Sat 4/28/35 Sat 4/28/35 Sat 4/28/35 Sat 4/28/35	
Planning Engineering and Design	365 days Sat 4/29/34 Sat 4/28/35	
09 CHANNELS	110 days Sun 4/29/35 Thu 8/16/35	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Sun 4/29/35 Sat 6/9/35 51 days Sun 6/10/35 Mon 7/30/35	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	17 days Tue 7/31/35 Thu 8/16/35	
31 CONSTRUCTION MANAGEMENT	110 days Sun 4/29/35 Thu 8/16/35	
Construction Management	110 days Sun 4/29/35 Thu 8/16/35	
O&M - Contract No. 20	470 days Thu 8/17/34 Thu 11/29/35	
Channel Improvements (Mile 0.0 to Mile -3.7)  NOTICE TO PROCEED	470 days Thu 8/17/34 Thu 11/29/35  0 days Thu 8/16/35 Thu 8/16/35	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 8/17/34 Thu 8/16/35	
Planning Engineering and Design	365 days Thu 8/17/34 Thu 8/16/35	
09 CHANNELS	105 days Fri 8/17/35 Thu 11/29/35	
Mobilization / Site Prep (Including Permits and Pipe Laydown) Hydraulic Dredging	42 days Fri 8/17/35 Thu 9/27/35 48 days Fri 9/28/35 Wed 11/14/35	
Demobilization (Includes Pipe Pickup)	15 days Thu 11/15/35 Thu 11/29/35	
31 CONSTRUCTION MANAGEMENT	105 days Fri 8/17/35 Thu 11/29/35	
Construction Management	105 days Fri 8/17/35 Thu 11/29/35	
O&M Contracting (Cycle 3)	2079 days Fri 12/1/34 Thu 8/9/40	
O&M - Contract No. 21 Channel Improvements (Mile 36.3 to Mile 34.0, Mile 24.0 to Mile 22.0 &	597 days Fri 12/1/34 Sat 7/19/36 597 days Fri 12/1/34 Sat 7/19/36	
Mile 22.0 to Mile 20.0 & Mile 11.0 to Mile 0.0)	337 day3 111 12 1134 Sat 11 13/33	
NOTICE TO PROCEED	0 days Fri 11/30/35 Fri 11/30/35	
30 PLANNING ENGINEERING & DESIGN	365 days Fri 12/1/34 Fri 11/30/35	
Planning Engineering and Design  09 CHANNELS	365 days Sat 12/2/34 Sat 12/1/35  233 days Fri 11/30/35 Sat 7/19/36	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	65 days Fri 11/30/35 Sat 2/2/36	
Containment Sites	67 days Sun 2/3/36 Wed 4/9/36	
Hydraulic Dredging	78 days Thu 4/10/36 Thu 6/26/36	
Demobilization (Includes Pipe Pickup) 31 CONSTRUCTION MANAGEMENT	23 days Fri 6/27/36 Sat 7/19/36 233 days Fri 11/30/35 Sat 7/19/36	
Construction Management	233 days Fri 11/30/35 Sat 7/19/36	
O&M - Contract No. 22	470 days Sat 7/21/35 Sat 11/1/36	
Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Sat 7/21/35 Sat 11/1/36	
NOTICE TO PROCEED  30 PLANNING ENGINEERING & DESIGN	0 days Sat 7/19/36 Sat 7/19/36 365 days Sat 7/21/35 Sat 7/19/36	
Planning Engineering and Design	365 days Sat 7/21/35 Sat 7/19/36	
09 CHANNELS	105 days Sun 7/20/36 Sat 11/1/36	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Sun 7/20/36 Sat 8/30/36	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	48 days Sun 8/31/36 Fri 10/17/36 15 days Sat 10/18/36 Sat 11/1/36	
31 CONSTRUCTION MANAGEMENT	105 days Sun 7/20/36 Sat 11/1/36	
Construction Management	105 days Sun 7/20/36 Sat 11/1/36	
O&M - Contract No. 23	475 days Sat 11/3/35 Thu 2/19/37	
Channel Improvements (Mile 11.0 to Mile 0.0)  NOTICE TO PROCEED	475 days Sat 11/3/35 Thu 2/19/37  0 days Sat 11/1/36 Sat 11/1/36	
30 PLANNING ENGINEERING & DESIGN	365 days Sat 11/1/36 Sat 11/1/36	
Planning Engineering and Design	365 days Sat 11/3/35 Sat 11/1/36	
09 CHANNELS	110 days Sun 11/2/36 Thu 2/19/37	
Mobilization / Site Prep (Including Permits and Pipe Laydown) Hydraulic Dredging	42 days Sun 11/2/36 Sat 12/13/36 51 days Sun 12/14/36 Mon 2/2/37	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	51 days Sun 12/14/36 Mon 2/2/3/ 17 days Tue 2/3/37 Thu 2/19/37	
31 CONSTRUCTION MANAGEMENT	110 days Sun 11/2/36 Thu 2/19/37	
Construction Management	110 days Sun 11/2/36 Thu 2/19/37	
O&M - Contract No. 24 Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Thu 2/21/36 Thu 6/4/37 470 days Thu 2/21/36 Thu 6/4/37	
NOTICE TO PROCEED	4/0 days Thu 2/21/36 Thu 6/4/37 Thu 2/19/37 Thu 2/19/37	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 2/21/36 Thu 2/19/37	
Planning Engineering and Design	365 days Thu 2/21/36 Thu 2/19/37	
09 CHANNELS	105 days Fri 2/20/37 Thu 6/4/37	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Fri 2/20/37 Thu 4/2/37 48 days Fri 4/3/37 Wed 5/20/37	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	48 days Fri 4/3/37 Wed 5/20/37 15 days Thu 5/21/37 Thu 6/4/37	
31 CONSTRUCTION MANAGEMENT	105 days Fri 2/20/37 Thu 6/4/37	
Construction Management	105 days Fri 2/20/37 Thu 6/4/37	
O&M - Contract No. 25	475 days Thu 6/5/36 Tue 9/22/37	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Thu 6/5/36 Tue 9/22/37	
NOTICE TO PROCEED  30 PLANNING ENGINEERING & DESIGN	0 days Thu 6/4/37 Thu 6/4/37 365 days Thu 6/5/36 Thu 6/4/37	
	365 days Thu 6/5/36 Thu 6/4/37	
Planning Engineering and Design		
Planning Engineering and Design  09 CHANNELS  Mobilization / Site Prep (Including Permits and Pipe Laydown)	110 days Fri 6/5/37 Tue 9/22/37 42 days Fri 6/5/37 Thu 7/16/37	

		HOUMA NAVIGATION CANAL Tentative Project Schedule
0 Task Name Hydraulic Dredging	51 days Fri 7/17/37 Sat 9/5/37	2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2048 2047
Demobilization (Includes Pipe Pickup)	17 days Sun 9/6/37 Tue 9/22/37	
31 CONSTRUCTION MANAGEMENT Construction Management	110 days Fri 6/5/37 Tue 9/22/37 110 days Fri 6/5/37 Tue 9/22/37	
14 O&M - Contract No. 26	827 days Tue 9/23/36 Tue 12/28/38	
Channel Improvements (Mile 36.3 to Mile 20.0 and Mile 0.0 to -3.7)	827 days Tue 9/23/36 Tue 12/28/38	
NOTICE TO PROCEED	0 days Tue 9/22/37 Tue 9/22/37	
17 30 PLANNING ENGINEERING & DESIGN 18 Planning Engineering and Design	365 days Tue 9/23/36 Tue 9/22/37 365 days Tue 9/23/36 Tue 9/22/37	
119 09 CHANNELS	462 days Wed 9/23/37 Tue 12/28/38	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	88 days Wed 9/23/37 Sat 12/19/37	
Mechanical Dredging (Flotation Channel; 2 Crews)  Stone Placement (2 Crews)	49 days Sun 12/20/37 Sat 2/6/38 16 days Wed 2/3/38 Thu 2/18/38	
Confinement Dikes (2 Crews)	173 days Sun 12/20/37 Thu 6/10/38	
Hydraulic Dredging	140 days Fri 6/11/38 Thu 10/28/38	
425         Demobilization (Includes Pipe Pickup)           426         31 CONSTRUCTION MANAGEMENT	61 days Fri 10/29/38 Tue 12/28/38 462 days Wed 9/23/37 Tue 12/28/38	
27 Construction Management	462 days Wed 9/23/37 Tue 12/28/38	
O&M - Contract No. 27	635 days Tue 12/29/37 Sat 9/24/39	
	635 days Tue 12/29/37 Sat 9/24/39	
30 PLANNING ENGINEERING & DESIGN	0 days Tue 12/28/38 Tue 12/28/38 Tue 12/28/38 Tue 12/28/38 Tue 12/29/37 Tue 12/28/38	
Planning Engineering and Design	365 days Tue 12/29/37 Tue 12/28/38	
433 09 CHANNELS	270 days Wed 12/29/38 Sat 9/24/39	
Mobilization / Site Prep (Including Permits and Pipe Laydown)  Mechanical Dredging (Flotation Channel)	60 days Wed 12/29/38 Sat 2/26/39 66 days Sun 2/27/39 Tue 5/3/39	
stone Placement (2 Crews)	46 days Tue 3/29/39 Fri 5/13/39	
Confinement Dikes	88 days Sun 2/27/39 Wed 5/25/39	
38 Hydraulic Dredging 39 Demobilization (Includes Pipe Pickup)	99 days Thu 5/26/39 Thu 9/1/39 23 days Fri 9/2/39 Sat 9/24/39	
140 S1 CONSTRUCTION MANAGEMENT	23 days Fri 9/2/39 Sat 9/24/39 270 days Wed 12/29/38 Sat 9/24/39	
441 Construction Management	270 days Wed 12/29/38 Sat 9/24/39	
0&M - Contract No. 28	470 days Sat 9/25/38 Sat 1/7/40	
443 Channel Improvements (Mile 0.0 to Mile -3.7)  444 NOTICE TO PROCEED	470 days Sat 9/25/38 Sat 1/7/40 Sat 9/24/39 Sat 9/24/39	
30 PLANNING ENGINEERING & DESIGN	365 days Sat 9/25/38 Sat 9/24/39	
Planning Engineering and Design	365 days Sat 9/25/38 Sat 9/24/39	
447 09 CHANNELS  448 Mobilization / Site Prep (Including Permits and Pipe Laydown)	105 days         Sun 9/25/39         Sat 1/7/40           42 days         Sun 9/25/39         Sat 11/5/39	
Hydraulic Dredging	48 days Sun 11/6/39 Fri 12/23/39	
Demobilization (Includes Pipe Pickup)	15 days Sat 12/24/39 Sat 1/7/40	
451 31 CONSTRUCTION MANAGEMENT	105 days         Sun 9/25/39         Sat 1/7/40           105 days         Sun 9/25/39         Sat 1/7/40	
Construction Management  O&M - Contract No. 29	105 days Sun 9/25/39 Sat 1/7/40 475 days Sat 1/8/39 Thu 4/26/40	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Sat 1/8/39 Thu 4/26/40	
NOTICE TO PROCEED	0 days Sat 1/7/40 Sat 1/7/40	
30 PLANNING ENGINEERING & DESIGN Planning Engineering and Design	365 days Sat 1/8/39 Sat 1/7/40 Sat 1/7/40	
458 09 CHANNELS	110 days Sun 1/8/40 Thu 4/26/40	
469 Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Sun 1/8/40 Sat 2/18/40	
Hydraulic Dredging Demobilization (Includes Pipe Pickup)	51 days Sun 2/19/40 Mon 4/9/40 17 days Tue 4/10/40 Thu 4/26/40	
31 CONSTRUCTION MANAGEMENT	110 days Sun 1/8/40 Thu 4/26/40	
463 Construction Management	110 days Sun 1/8/40 Thu 4/26/40	
O&M - Contract No. 30	470 days Thu 4/28/39 Thu 8/9/40	
	470 days Thu 4/28/39 Thu 8/9/40 0 days Thu 4/26/40 Thu 4/26/40	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 4/28/39 Thu 4/26/40	
Planning Engineering and Design	365 days Thu 4/28/39 Thu 4/26/40	
469 09 CHANNELS  470 Mobilization / Site Prep (Including Permits and Pipe Laydown)	105 days Fri 4/27/40 Thu 8/9/40 42 days Fri 4/27/40 Thu 6/7/40	
471 Hydraulic Dredging	48 days Fri 6/8/40 Wed 7/25/40	
Demobilization (Includes Pipe Pickup)	15 days Thu 7/26/40 Thu 8/9/40	
	105 days Fri 4/27/40 Thu 8/9/40 105 days Fri 4/27/40 Thu 8/9/40	
O&M Contracting (Cycle 4)	2097 days Thu 8/11/39 Sun 5/7/45	
O&M - Contract No. 31	615 days Thu 8/11/39 Tue 4/16/41	
477 Channel Improvements (Mile 36.3 to Mile 34.0, Mile 24.0 to Mile 22.0 & Mile 22.0 to Mile 20.0 & Mile 11.0 to Mile 0.0)	615 days Thu 8/11/39 Tue 4/16/41	
NOTICE TO PROCEED	0 days Thu 8/9/40 Thu 8/9/40	
30 PLANNING ENGINEERING & DESIGN	365 days Thu 8/11/39 Thu 8/9/40	
Planning Engineering and Design  81 09 CHANNELS	365 days Thu 8/11/39 Thu 8/9/40 250 days Fri 8/10/40 Tue 4/16/41	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	63 days Fri 8/10/40 Thu 10/11/40	
R3 Containment Sites	78 days Fri 10/12/40 Fri 12/28/40	
84 Hydraulic Dredging 85 Demobilization (Includes Pipe Pickup)	81 days Sat 12/29/40 Tue 3/19/41 28 days Wed 3/20/41 Tue 4/16/41	
186 31 CONSTRUCTION MANAGEMENT	250 days Fri 8/10/40 Tue 4/16/41	
87 Construction Management	250 days Fri 8/10/40 Tue 4/16/41	
88 O&M - Contract No. 32	470 days Tue 4/17/40 Tue 7/30/41	
Channel Improvements (Mile 0.0 to Mile -3.7)  NOTICE TO PROCEED	470 days Tue 4/17/40 Tue 7/30/41  0 days Tue 4/16/41 Tue 4/16/41	
30 PLANNING ENGINEERING & DESIGN	365 days Tue 4/17/40 Tue 4/16/41	
Planning Engineering and Design	365 days Tue 4/17/40 Tue 4/16/41	
993 09 CHANNELS 994 Mobilization / Site Prep (Including Permits and Pipe Laydown)	105 days Wed 4/17/41 Tue 7/30/41 42 days Wed 4/17/41 Tue 5/28/41	
95 Hydraulic Dredging	48 days Wed 5/29/41 Mon 7/15/41	
Demobilization (Includes Pipe Pickup)	15 days Tue 7/16/41 Tue 7/30/41	
97 31 CONSTRUCTION MANAGEMENT 98 Construction Management	105 days Wed 4/17/41 Tue 7/30/41 105 days Wed 4/17/41 Tue 7/30/41	
99 O&M - Contract No. 33	105 days	
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Tue 7/31/40 Sun 11/17/41	
NOTICE TO PROCEED	0 days Tue 7/30/41 Tue 7/30/41	
	365 days Tue 7/31/40 Tue 7/30/41 365 days Tue 7/31/40 Tue 7/30/41	
Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Figure Fi	110 days Wed 7/31/41 Sun 11/17/41	
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Wed 7/31/41 Tue 9/10/41	
Hydraulic Dredging  Domobilization (Includes Pine Rickup)	51 days Wed 9/11/41 Thu 10/31/41	
Demobilization (Includes Pipe Pickup)  31 CONSTRUCTION MANAGEMENT	17 days Fri 11/1/41 Sun 11/17/41 110 days Wed 7/31/41 Sun 11/17/41	
Construction Management	110 days Wed 7/31/41 Sun 11/17/41	
	470 days Sun 11/18/40 Sun 3/2/42	
O&M - Contract No. 34 Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Sun 11/18/40 Sun 3/2/42	

		HOUMA NAVIGATION CANAL Tentative Project Schedule	
Task Name NOTICE TO PROCEED	0 days Sun 11/17/41 Sun 11/17/41	2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2014 2035	2096 2037 2098 2039 2040 2041 2042 2043 2044 2045 2046
30 PLANNING ENGINEERING & DESIGN	365 days Sun 11/18/40 Sun 11/17/41		
Planning Engineering and Design  09 CHANNELS	365 days Sun 11/18/40 Sun 11/17/41		
Mobilization / Site Prep (Including Permits and Pipe Laydown)	105 days Mon 11/18/41 Sun 3/2/42 42 days Mon 11/18/41 Sun 12/29/41		
Hydraulic Dredging	48 days Mon 12/30/41 Sat 2/15/42		
Demobilization (Includes Pipe Pickup)	15 days Sun 2/16/42 Sun 3/2/42		
31 CONSTRUCTION MANAGEMENT	105 days Mon 11/18/41 Sun 3/2/42		
Construction Management  O&M - Contract No. 35	105 days Mon 11/18/41 Sun 3/2/42 475 days Sun 3/3/41 Fri 6/20/42		
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Sun 3/3/41 Fri 6/20/42 475 days Sun 3/3/41 Fri 6/20/42		
NOTICE TO PROCEED	0 days Sun 3/2/42 Sun 3/2/42		
30 PLANNING ENGINEERING & DESIGN	365 days Sun 3/3/41 Sun 3/2/42		
Planning Engineering and Design	365 days Sun 3/3/41 Sun 3/2/42		
09 CHANNELS  Mobilization / Site Prep (Including Permits and Pipe Laydown)	110 days Mon 3/3/42 Fri 6/20/42 42 days Mon 3/3/42 Sun 4/13/42		
Hydraulic Dredging  Hydraulic Dredging	42 days Mon 3/3/42 Sun 4/13/42 51 days Mon 4/14/42 Tue 6/3/42		
Demobilization (Includes Pipe Pickup)	17 days Wed 6/4/42 Fri 6/20/42		
31 CONSTRUCTION MANAGEMENT	110 days Mon 3/3/42 Fri 6/20/42		
Construction Management	110 days Mon 3/3/42 Fri 6/20/42		
O&M - Contract No. 36	827 days Fri 6/21/41 Fri 9/25/43		
Channel Improvements (Mile 36.3 to Mile 20.0 and Mile 0.0 to -3.7)  NOTICE TO PROCEED	827 days Fri 6/21/41 Fri 9/25/43 0 days Fri 6/20/42 Fri 6/20/42		
30 PLANNING ENGINEERING & DESIGN	365 days Fri 6/21/41 Fri 6/20/42		
Planning Engineering and Design	365 days Fri 6/21/41 Fri 6/20/42		
09 CHANNELS	462 days Sat 6/21/42 Fri 9/25/43		
Mobilization / Site Prep (Including Permits and Pipe Laydown)	88 days Sat 6/21/42 Tue 9/16/42		
Mechanical Dredging (Flotation Channel; 2 Crews)  Stone Placement (2 Crews)	49 days Wed 9/17/42 Tue 11/4/42 16 days Sat 11/1/42 Sun 11/16/42		
Confinement Dikes (2 Crews)	16 days Sat 11/1/42 Sun 11/16/42 173 days Wed 9/17/42 Sun 3/8/43		
Hydraulic Dredging	140 days Mon 3/9/43 Sun 7/26/43		
Demobilization (Includes Pipe Pickup)	61 days Mon 7/27/43 Fri 9/25/43		
31 CONSTRUCTION MANAGEMENT	462 days Sat 6/21/42 Fri 9/25/43		
Construction Management  O&M - Contract No. 37	462 days Sat 6/21/42 Fri 9/25/43 635 days Fri 9/26/42 Tue 6/21/44		
Channel Improvements (Mile 20.0 to Mile 0.0)	635 days Fri 9/26/42 Tue 6/21/44 635 days Fri 9/26/42 Tue 6/21/44		
NOTICE TO PROCEED	0 days Fri 9/25/43 Fri 9/25/43		
30 PLANNING ENGINEERING & DESIGN	365 days Fri 9/26/42 Fri 9/25/43		
Planning Engineering and Design	365 days Fri 9/26/42 Fri 9/25/43		
09 CHANNELS  Mobilization / Site Prep (Including Permits and Pipe Laydown)	270 days Sat 9/26/43 Tue 6/21/44 60 days Sat 9/26/43 Tue 11/24/43		
Mechanical Dredging (Flotation Channel)	66 days Wed 11/25/43 Fri 1/29/44		
Stone Placement (2 Crews)	46 days Fri 12/25/43 Mon 2/8/44		
Confinement Dikes	88 days Wed 11/25/43 Sat 2/20/44		
Hydraulic Dredging	99 days Sun 2/21/44 Sun 5/29/44		
Demobilization (Includes Pipe Pickup) 31 CONSTRUCTION MANAGEMENT	23 days Mon 5/30/44 Tue 6/21/44		
31 CONSTRUCTION MANAGEMENT  Construction Management	270 days         Sat 9/26/43         Tue 6/21/44           270 days         Sat 9/26/43         Tue 6/21/44		
O&M - Contract No. 38	470 days Tue 6/23/43 Tue 10/4/44		
Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Tue 6/23/43 Tue 10/4/44		
NOTICE TO PROCEED	0 days Tue 6/21/44 Tue 6/21/44		
30 PLANNING ENGINEERING & DESIGN	365 days		
Planning Engineering and Design  09 CHANNELS	365 days Tue 6/23/43 Tue 6/21/44  105 days Wed 6/22/44 Tue 10/4/44		
Mobilization / Site Prep (Including Permits and Pipe Laydown)	105 days Wed 6/22/44 Tue 10/4/44 42 days Wed 6/22/44 Tue 8/2/44		
Hydraulic Dredging	48 days Wed 8/3/44 Mon 9/19/44		
Demobilization (Includes Pipe Pickup)	15 days Tue 9/20/44 Tue 10/4/44		
31 CONSTRUCTION MANAGEMENT	105 days Wed 6/22/44 Tue 10/4/44		
Construction Management  O&M - Contract No. 39	105 days Wed 6/22/44 Tue 10/4/44 475 days Tue 10/6/43 Sun 1/22/45		
Channel Improvements (Mile 11.0 to Mile 0.0)	475 days Tue 10/6/43 Sun 1/22/45		
NOTICE TO PROCEED	0 days Tue 10/4/44 Tue 10/4/44		
30 PLANNING ENGINEERING & DESIGN	365 days Tue 10/6/43 Tue 10/4/44		
Planning Engineering and Design	365 days Tue 10/6/43 Tue 10/4/44		
09 CHANNELS  Mobilization / Site Prep (Including Permits and Pipe Laydown)	110 days Wed 10/5/44 Sun 1/22/45 42 days Wed 10/5/44 Tue 11/15/44		
Hydraulic Dredging	51 days Wed 10/5/44 Tue 17/5/44 51 days Wed 11/16/44 Thu 1/5/45		
Demobilization (Includes Pipe Pickup)	17 days Fri 1/6/45 Sun 1/22/45		
31 CONSTRUCTION MANAGEMENT	110 days Wed 10/5/44 Sun 1/22/45		
Construction Management	110 days Wed 10/5/44 Sun 1/22/45		
O&M - Contract No. 40 Channel Improvements (Mile 0.0 to Mile -3.7)	470 days Sun 1/24/44 Sun 5/7/45 470 days Sun 1/24/44 Sun 5/7/45		
NOTICE TO PROCEED	4/0 days Sun 1/24/44 Sun 5///45 0 days Sun 1/22/45 Sun 1/22/45		
30 PLANNING ENGINEERING & DESIGN	365 days Sun 1/24/44 Sun 1/22/45		
Planning Engineering and Design	365 days Sun 1/24/44 Sun 1/22/45		
09 CHANNELS	105 days Mon 1/23/45 Sun 5/7/45		
Mobilization / Site Prep (Including Permits and Pipe Laydown) Hydraulic Dredging	42 days Mon 1/23/45 Sun 3/5/45 48 days Mon 3/6/45 Sat 4/22/45		
Demobilization (Includes Pipe Pickup)	48 days Mon 3/6/45 Sat 4/22/45 15 days Sun 4/23/45 Sun 5/7/45		
31 CONSTRUCTION MANAGEMENT	105 days Mon 1/23/45 Sun 5/7/45		
Construction Management	105 days Mon 1/23/45 Sun 5/7/45		
D&M Contracting (Cycle 5)	2055 days Sun 5/8/44 Wed 12/22/49		
O&M - Contract No. 41 Channel Improvements (Mile 36.3 to Mile 34.0 Mile 34.0 to Mile 32.0 %	616 days Sun 5/8/44 Sat 1/13/46		
Channel Improvements (Mile 36.3 to Mile 34.0, Mile 24.0 to Mile 22.0 & Mile 22.0 to Mile 20.0 & Mile 11.0 to Mile 0.0)	616 days Sun 5/8/44 Sat 1/13/46		
NOTICE TO PROCEED	0 days Sun 5/7/45 Sun 5/7/45		
30 PLANNING ENGINEERING & DESIGN	365 days Sun 5/8/44 Sun 5/7/45		
Planning Engineering and Design	365 days Sun 5/8/44 Sun 5/7/45		
09 CHANNELS  Mobilization / Site Prep (Including Permits and Pine Laydown)	251 days Mon 5/8/45 Sat 1/13/46 63 days Mon 5/8/45 Sun 7/9/45		
Mobilization / Site Prep (Including Permits and Pipe Laydown)  Containment Sites	63 days Mon 5/8/45 Sun 7/9/45 72 days Mon 7/10/45 Tue 9/19/45		
Hydraulic Dredging	81 days Wed 9/20/45 Sat 12/9/45		
Demobilization (Includes Pipe Pickup)	35 days Sun 12/10/45 Sat 1/13/46		
31 CONSTRUCTION MANAGEMENT	251 days Mon 5/8/45 Sat 1/13/46		
Construction Management	251 days Mon 5/8/45 Sat 1/13/46		
O&M - Contract No. 42	470 days Sat 1/14/45 Sat 4/28/46		
Channel Improvements (Mile 0.0 to Mile -3.7)  NOTICE TO PROCEED	470 days Sat 1/14/45 Sat 4/28/46  0 days Sat 1/13/46 Sat 1/13/46		
30 PLANNING ENGINEERING & DESIGN	0 days Sat 1/13/46 Sat 1/13/46  365 days Sat 1/14/45 Sat 1/13/46		
Planning Engineering and Design	365 days Sat 1/14/45 Sat 1/13/46		
09 CHANNELS	105 days Sun 1/14/46 Sat 4/28/46		
Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Sun 1/14/46 Sat 2/24/46 48 days Sun 2/25/46 Fri 4/13/46		
Hydraulic Dredging			

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O&M - Contract No. 50         470 days         Wed 9/9/48         Wed 12/22/49           Channel Improvements (Mile -0.1 to Mile -3.7)         470 days         Wed 9/9/49         Wed 12/22/49           NOTICE TO PROCEED         0 days         Wed 9/9/49         Wed 9/9/49           30 PLANNING ENGINEERING & DESIGN         365 days         Wed 9/9/48         Wed 9/9/48           Planning Engineering and Design         365 days         Wed 9/9/48         Wed 9/9/49           90 CHANNELS         105 days         Thu 9/9/49         Wed 12/22/49           Mobilization / Site Prep (Including Permits and Pipe Laydown)         42 days         Thu 9/9/49         Wed 10/20/49           Hydraulic Dredging         48 days         Thu 10/21/49         Tue 12/7/49           Demobilization (Includes Pipe Pickup)         15 days         Thu 9/9/49         Wed 12/22/49           31 CONSTRUCTION MANAGEMENT         105 days         Thu 9/9/99         Wed 12/22/49	31 CONSTRUCTION MANAGEMENT	110 days Sat 5/22/49 Wed 9/8/49					
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Planning Engineering and Design   365 days   Wed 9/9/48   Wed 9/9/49	NOTICE TO PROCEED	0 days Wed 9/8/49 Wed 9/8/49					
09 CHANNELS         105 days         Thu 9/9/49         Wed 12/22/49           Mobilization / Site Prep (Including Permits and Pipe Laydown)         42 days         Thu 9/9/49         Wed 10/20/49           Hydraulic Dredging         48 days         Thu 10/21/49         Thu 10/21/49           Demobilization (Includes Pipe Pickup)         15 days         Wed 12/22/49           31 CONSTRUCTION MANAGEMENT         105 days         Thu 9/9/49         Wed 12/22/49							
Mobilization / Site Prep (Including Permits and Pipe Laydown)							
Demobilization (Includes Pipe Pickup)         15 days         Wed 12/8149         Wed 12/2249           31 CONSTRUCTION MANAGEMENT         105 days         Thu 9/9/49         Wed 12/2249	Mobilization / Site Prep (Including Permits and Pipe Laydown)	42 days Thu 9/9/49 Wed 10/20/49					
31 CONSTRUCTION MANAGEMENT 105 days Thu 9/9/49 Wed 12/22/49	Hydraulic Dredging	48 days Thu 10/21/49 Tue 12/7/49					

## APPENDIX D

## Local Market Labor Rates

General Decision Number: LA170011 01/06/2017 LA11

Superseded General Decision Number: LA20160011

State: Louisiana

Construction Type: Heavy Dredging

Counties: Louisiana Statewide.

DREDGING PROJECTS ALONG THE GULF COAST AREA INCLUDING THE MISSISSIPPI RIVER AND ITS TRIBUTARIES TO THE OHIO RIVER

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date 0 01/06/2017

\* SULA1994-001 04/01/1994

F	Rates	Fringes
Derrick Operator\$	7.25	
Dozer Operator\$	7.25	
Dredge 16" and Over  Deckhand\$  Dredge tender operator\$  Fireman\$  First assistant engineer\$  Leverman\$  Second assistant engineer\$  Shoreman\$  Third assistant engineer\$  Truck driver\$  Welder\$	7.25 7.25 7.25 7.25 7.25 7.25 7.25 7.25	
Dredge Under 16"  Deckhand\$  Dredge tender operator\$  Leverman\$  Oiler\$  Welder\$	7.25 7.25 7.25 7.25 7.25	
Hydraulic Dredging First cook\$ Handyman\$ Janitor, cabin person\$ Second cook\$	7.25 7.25 7.25 7.25	

Marsh Buggy Dragline, Oiler.....\$ 7.25

Marsh Buggy Dragline, Operator...\$ 7.25

Self-Propelled Hopper Dredge,

Drag Tender..... \$ 9.70 3.45+a

FOOTNOTE: Fourteen paid vacation days and eight paid holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day & Christmas Day provided the employee has one year of service.

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

\_\_\_\_\_

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198

indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- $^st$  a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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General Decision Number: LA170016 01/06/2017 LA16

Superseded General Decision Number: LA20160016

State: Louisiana

Construction Type: Highway

Counties: Lafourche and Terrebonne Counties in Louisiana.

#### HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date 0 01/06/2017

ENGI0406-001 10/28/2010

	Rates	Fringes
Mechanic\$	25.40	8.05
SULA2011-004 08/26/2011		
	Rates	Fringes
CARPENTER, Includes Form Work\$	19.13	
CEMENT MASON/CONCRETE FINISHER\$	18.00	2.94
IRONWORKER, REINFORCING\$	17.49	
LABORER: Common or General\$	13.83	2.94
PILEDRIVERMAN\$	19.00	
Power equipment operators:  Asphalt Paver\$  Backhoe/Excavator/Trackhoe\$  Broom/Sweeper\$  Bulldozer\$  Crane\$  Grader/Blade\$  Milling Machine\$  Roller (Asphalt and Dirt  Compaction)\$  Trencher\$	20.03 15.17 16.40 25.97 15.88 16.63	4.97 5.15 2.14 4.23
ırencner\$	14.38	

Truck drivers:

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
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Branch of Construction Wage Determinations

Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

> Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

> Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

https://www.wdol.gov/wdol/scafiles/davisbacon/LA16.dvb?v=0

### APPENDIX E

## Construction Cost Estimate Back Up Data

## **APPENDIX E.1**

## Designer Provided Relocation Quantities

# HOUMA NAVIGATION CANAL Navigation Improvement Project

### Non-Federal Contract No. 1

Pipeline Relocations

DESCRIPTION	DIAMETER	LENGTH
DESCRIPTION	(in)	(ft)
South LA Electric Coop. submarine Cable (E-1)		1000
Approximate River Mile: 36.3		
Terrebonne Parish Water Line (W-1)	12	1000
Approximate River Mile: 34.4		
Charter Communications Submarine Cable (C-1)	3	1000
Approximate River Mile: 34.3		
Entergy LA. Inc. Submarine Cable (E-2)		1000
Approximate River Mile: 34.3		
Terrebonne Parish Consol. Gov. Sewer Line (S-1)	10	900
Approximate River Mile: 34.3		
South LA Electric Coop Assn. Submarine Cable (E-3)		900
Approximate River Mile: 33.4		
Gulf South P/L Co. Gas Pipeline (P-1)	20	1100
Approximate River Mile: 31.2		
LA Intrastate Gas Co. Gas Pipeline (P-2)	16	1100
Approximate River Mile: 31.2		
Enterprise P/L Co. Gas Pipeline (P-3)	8	900
Approximate River Mile: 29.7		
Louisiana Intrastate Gas Pipeline (P-4)	10	900
Approximate River Mile: 29.7		
Columbia Gulf Transmission Gas Pipeline (P-5)	30	900
Approximate River Mile: 27.9		
South LA Electric Coop. Submarine Cable (E-4)		800
Approximate River Mile: 26.5		

# HOUMA NAVIGATION CANAL Navigation Improvement Project

### Non-Federal Contract No. 2

Pipeline Relocations

DESCRIPTION	DIAMETER (in)	LENGTH (ft)
Koch Gateway P/L Co. Gas Pipeline (P-6)	12	2,100
Approximate River Mile: 23.5		
Terrebonne Parish Sub Cable (E-5)		800
Approximate River Mile: 23.3		
South LA Electric Cooperative Assn. Sub Cable (E-	6)	900
Approximate River Mile: 23.2		
Gulf South P/L Co. Gas Pipeline (P-7)	4	1,000
Approximate River Mile: 22.8		
Gulf South P/L Co. Gas Pipeline (P-8)	6	900
Approximate River Mile: 22.8		
Hope Services Waterlines (Abandoned) (W-2)	2.33	850
Approximate River Mile: 21.6		
Williams Gas P/L (P-10)	6	2,100
Approximate River Mile: 13.3		
Tennessee Gas Pipeline Co. (P-11)	24	1,200
Approximate River Mile: 12.1		
Tennessee Gas Pipeline Co. (P-12)	26	1,050
Approximate River Mile: 11.9		

# HOUMA NAVIGATION CANAL Navigation Improvement Project

### Non-Federal Contract No. 3

Pipeline Relocations

DESCRIPTION	DIAMETER	LENGTH
	(in)	(ft)
Southern Natural Gas Pipeline (P-14) Approximate River Mile: 11.7	6	1,300
Texaco, Inc. Gas Line (P-18) Approximate River Mile: 10.5	2.5	1,400
Chevron-Texaco, Inc. Gas Line (P-19) Approximate River Mile: 10.5	3	1,500
Texaco, Inc. Oil Pipeline (P-15) Approximate River Mile: 10.7	2.5	1,400
Texaco, Inc. Gas Pipeline (P-16) Approximate River Mile: 10.7	2.5	1,500
Texaco, Inc. Gas Pipeline (P-17) Approximate River Mile: 10.7	3	1,500
Texaco Pipelines LLC. Gas Pipeline (P-21) Approximate River Mile: 6.4	8	2,000
Texaco Pipelines LLC. Gas Pipeline (P-22) Approximate River Mile: 6.4	16	2,000
Texaco Pipelines LLC. Gas Pipeline (P-23) Approximate River Mile: 6.4	20	2,000