



**US Army Corps
of Engineers®**
Memphis District

**GRAND PRAIRIE REGION AND BAYOU METO
BASIN, ARKANSAS PROJECT**

**BAYOU METO BASIN,
ARKANSAS**

GENERAL REEVALUATION REPORT

VOLUME 6

APPENDIX B

**ENGINEERING INVESTIGATIONS & ANALYSES
AGRICULTURAL WATER SUPPLY COMPONENT &
WATERFOWL MANAGEMENT COMPONENT**

SECTION IX – COST ENGINEERING REPORT

NOVEMBER 2006





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BAYOU METO BASIN, ARKANSAS PROJECT GENERAL REEVALUATION REPORT (GRR) INDEX

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PROJECT COST ESTIMATE, BAYOU METO GRR

A. Methodology.

ER 1110-2-1302 guides the methodology for this cost estimate. The cost detail presented here and in the MCACES Gold cost reports and the Excel spreadsheets was made to a level of detail commensurate with the design information provided. Since historically 80 percent of project cost is contained in 20 percent of the estimated work elements, efforts and detail were focused on those cost elements that had the greatest influence on cost. All previous pricing that was indexed used the Civil Works Construction Cost Index System, EM 1110-2-1304, and was brought up to October 2003 levels. The costs in this appendix are generally first costs that are escalated in the main report (see Table XX, Volume Y) to October 2005 pricing using the aforementioned system and later fully funded in Table XY to be taken back to present worth and the Benefit/Cost ratio computed. The computer software used was MCACES Gold, Version 5.30, developed by Building Systems Design, Inc., of Atlanta, GA, and Microsoft Office Excel 2003, SP2.

The major cost elements in this estimate were based upon current labor, equipment and material costs or subcontractor/manufacturer quotes for the specific locality. Production rates were extracted from Memphis District contract field reports, the Memphis District Bid Item cost data base, in house calibrated production spreadsheet programs, various technical publications such as R.S. Means, and information from contractors, subcontractors and manufacturers. Production for draglines and excavators was calculated from a spreadsheet program based upon the Power Shovel Association method for dragline production and calibrated with Memphis District historic production data. The labor rates are based upon the Central Arkansas open shop prevailing rates that usually exceed the minimum 2003 Davis Bacon labor rates for the counties involved. Labor overburden was calculated for most trades using worker's compensation for concrete construction and earthwork classifications (NCCI assigned risk) and adding social security and state/federal unemployment. Overtime was added as applicable and calculated as a percentage of straight time hours. Work hours per week per shift vary from 40 to 60 hours per week. Equipment costs were calculated using the current Corps of Engineers Gold equipment data base adjusted for age, fuel costs, and shift hours according to procedures in the current EP 1110-1-8, Volume 3. Site visits were made to all the relocation sites and photographs were studied to obtain access, obstruction, and clearing information.

Home Office costs were entered at 5 percent with profit at 8 percent for prime contractor applications based upon the weighted guideline method. Subcontractor markups were similar. Contract bond was figured at 1 percent for the prime only, which is typical. Mobilization and demobilization costs were entered as a construction contract bid item and were not included as an indirect cost. The CSI standard work break down structure was used for contract construction costs.

The MCACES Gold cost reports included in this appendix were those determined to be most applicable to the majority of users. They consist of the cost summaries down to, and including, the "fourth" level. Detail task notes, production, and crew information are available at the "detail" level and contain valuable descriptions of exactly what is planned or envisioned by the study team and local sponsor and costs applied accordingly. This data should be considered when preparing final plans and specifications to insure that the authorized costs and PCA commitments are kept. Additional backup reports are available for review by hard copy or

electronically from the Memphis District Cost Engineering Section, Civil Design Branch. The “second view” report summary can be used to show the percentage of each cost element as compared to the bottom line total. This can be valuable information in determining where project cost emphasis and management should be applied in keeping the project within budget.

O&M COSTS: The MCACES Gold estimate does not include O&M costs. These costs were based on the unit prices calculated in the MCACES estimate, and then transferred to a spreadsheet, which amortizes them over the project life. These tables are shown for the Water Supply portion of the project in the Main Report, Volume I, Table 11, page 115-117.

TAXES: A tax rate of 7.6% was input and automatically applied at the project level by the software on all materials. Quotes that included taxes were tax-discounted before entering the price into the “materials” column in the MCACES estimate.

B. Construction Contract Areas

The project is to be constructed using nineteen Construction Contract Areas. These areas were broken out by separating the various “branches” of the irrigation delivery system. Some areas just contain a pumping station, but most include a network of canals, ditches, pipes, and associated structures designed to deliver specific flows to the various farmer tracts. Three reservoirs are also included.

A major cost driver in the estimate was the irrigation pipe. The PVC pipe used was assumed to be plastic irrigation pipe of standard design as used by the NRCS. This pipe is not the standard schedule 40 or 80 pipe, but has a good in service history. The trenching and bedding design estimated was also an NRCS design.

The “detail” MCACES printout notes and documentation should be consulted if further information and documentation is desired. The other engineering appendixes offer detailed descriptions which were not duplicated here.

C. Other Project Account Notes

01 Lands and Damages Account - Real Estate Division provided information for this account. This project requires that the local sponsor acquire all the right-of-way needed for construction. A small part of the acquisition cost is federal; everything else in this feature is non-federal. See assumptions in the real estate section of this report for more information.

02 Relocations Account – Relocations costs for the water supply portion of the study was provided by Relocations personnel in the Vicksburg District (CEMVK). All the relocations in this project were assumed to be a non-federal responsibility. See the Relocations section of this report for more information on specific items.

30 Planning, Engineering, and Design Account - Information for this account was provided by Project Management. Ten percent of the construction costs with contingency were used to determine the cost for this account with the exception of Contract Area 13 which was adjusted (See footnote, BM Account cost summary table, this Appendix). Costs were distributed over the 19 construction contract areas as shown in the cost table provided in this section of the report.

31 Supervision and Administration Feature - Information for this account was provided by Project Management. Six percent of the construction costs with contingency were used to determine the cost for this feature. Costs were distributed over the 19 construction contract areas

as in the 30 Account.

D. Contingencies

The cost estimate has a contingency of 12 percent applied to all items except real estate and the Wildlife Management Area estimates, which have a contingency of about 25%. The contingency amount was applied based upon the detail of design, the size of the construction contracts anticipated and the magnitude of the project. Detailed project designs and costs computed from the Grand Prairie Demonstration Project were assumed to be used in the Bayou Meto Project and were also a factor in lowering the contingency from the usual 20%. The quantities and engineering design were considered to be above average accuracy for a feasibility level report. A quality check of the quantities and costs were performed according to the study quality control plan. The construction costs estimated assume an average bidding climate, care in designing to cost, prudent construction procedures, and contract timing that takes advantage of the construction season. Average weather conditions were assumed.

E. Recommendations to Moderate Cost Risk

Specific recommendations for minimizing the construction cost risk are as follows:

1. Use the "detail" MCACES cost estimate as a guide to design and specification of construction whenever possible. Past experience has shown that much communication is lost between the feasibility phase and the plans and specifications phase. This is especially true if the design is contracted to an AE. Every effort should be made to design to cost. The bid schedule for the construction contracts should follow the MCACES estimate outline as closely as possible, in order to track any project cost changes and to obtain bidding economy. Mixing English and metric units in the plans and specifications phase also makes it very difficult to track and compare costs through the final design process and should be avoided.
2. Follow the designs used in the Grand Prairie project to take advantage of purchasing materials readily available that are to be used in that project.
3. The pump stations, reservoirs, and channel work would be more economical if the contractor can do the work during the typically dry seasons (mid-summer). This would minimize the contractor's efforts for dewatering and water diversion during construction.

TABLE C1 - BAYOU METO GRR WATER SUPPLY COST SUMMARY PRICE LEVEL OCT 03

CCA	01 LANDS AND DAMAGES	02 RELOC.	03 RESERVOIRS	09 CHANNELS AND CANALS	13 PUMPING PLANTS	19 BUILDINGS, GROUNDS, & UTILITIES	30 PLANNING, ENGR. & DESIGN	31 CONST. MGMT.	TOTALS
1	\$245,000	\$0	\$775,000	\$2,590,000	\$20,594,000	\$0	\$2,396,000	\$1,438,000	\$28,038,000
2	\$1,079,000	\$5,832,000	\$0	\$15,952,000	\$0	\$0	\$2,178,000	\$1,307,000	\$26,348,000
3A	\$804,000	\$0	\$0	\$26,354,000	\$0	\$0	\$2,635,000	\$1,581,000	\$31,374,000
3B	\$957,000	\$0	\$0	\$2,000,000	\$0	\$0	\$200,000	\$120,000	\$3,277,000
4	\$717,000	\$2,320,000	\$0	\$7,143,000	\$0	\$0	\$946,000	\$568,000	\$11,694,000
5	\$4,044,000	\$3,133,000	\$0	\$30,431,000	\$2,197,000	\$0	\$3,576,000	\$2,146,000	\$45,527,000
6	\$1,491,000	\$1,576,000	\$0	\$24,180,000	\$0	\$0	\$2,576,000	\$1,545,000	\$31,368,000
7A	\$1,790,000	\$1,520,000	\$0	\$19,487,000	\$0	\$0	\$2,101,000	\$1,260,000	\$26,158,000
7B	\$1,223,000	\$0	\$0	\$3,419,000	\$0	\$0	\$342,000	\$205,000	\$5,189,000
8	\$64,000	\$0	\$425,000	\$1,226,000	\$4,352,000	\$0	\$600,000	\$360,000	\$7,027,000
9	\$387,000	\$3,051,000	\$0	\$2,785,000	\$0	\$0	\$584,000	\$350,000	\$7,157,000
10	\$845,000	\$6,178,000	\$0	\$4,066,000	\$0	\$0	\$1,024,000	\$615,000	\$12,728,000
11	\$678,000	\$0	\$0	\$7,194,000	\$0	\$5,154,000	\$1,235,000	\$741,000	\$15,002,000
12	\$116,000	\$0	\$0	\$2,108,000	\$0	\$0	\$211,000	\$126,000	\$2,561,000
13	\$69,000	\$0	\$0	\$721,000	\$0	\$0	\$205,000	\$43,000	\$1,038,000
14	\$56,000	\$0	\$560,000	\$1,089,000	\$2,303,000	\$0	\$395,000	\$237,000	\$4,640,000
15	\$130,000	\$1,336,000	\$0	\$1,001,000	\$0	\$0	\$234,000	\$140,000	\$2,841,000
16	\$166,000	\$0	\$0	\$4,056,000	\$0	\$0	\$406,000	\$243,000	\$4,871,000
17	\$1,988,000	\$5,389,000	\$0	\$21,401,000	\$0	\$0	\$2,679,000	\$1,607,000	\$33,064,000
See notes	\$2,174,000	\$0	\$0	\$65,000,000	\$0	\$0			\$67,174,000
TOTALS	\$19,023,000	\$30,335,000	\$1,760,000	\$242,203,000	\$29,446,000	\$5,154,000	\$24,523,000	\$14,632,000	\$367,076,000
Percent of total:	5%	8%	0%	66%	8%	1%	7%	4%	100%

Notes:

01 Account: \$2,174,000 for mitigation was increased over original \$950,000 in MCACES estimate. RE corrections made to 3B, 7B, & 12 also.

09 Account: \$65,000,000 is for On-Farm features.

30 Account: E&D on CCA 13 was increased from \$72,000 in MCACES estimate, to \$205,000 to more accurately represent E&D costs.

MCACES Total of \$365,770,160 is different due to the changes made in the 01 and 30 accounts mentioned above.

All costs are w/ contingencies.

"CCA" is Construction Contract Area

The following factors were used in the above table (unless otherwise noted):

- 12% =Contingency
- 10% =E&D (not applied to "On-farm" costs)
- 6% =S&A (not applied to "On-farm" costs)

on 28 Apr 2003
f. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003

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TITLE PAGE 1

.....

Bayou Meto Feas.Est.28 Apr.2003

Designed By: CEMVM
Estimated By: EMBPRO

Prepared By: EMBPRO

Preparation Date: 04/11/03
Effective Date of Pricing: 04/11/03

Sales Tax: 7.60%

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Release 5.30

BOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03
PROJECT NOTES

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003

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TITLE PAGE 2

-
1. Cost for PVC irrigation pipe was furnished by Keeling Co. 501-764-1400. POC Dale Amyx.
 2. Some references are made to the BMPS02 source cost estimate. BMPS02 cost estimate is a copy of the (GP100C Grand Prairie Pumpstation) cost estimate.
 3. Some references are made to the BMCS02 source cost estimate. BMCS02 cost estimate is a copy of the (GPAPD1 GP Main Ck Str 3 Rad Gate App D) cost estimate.
 4. This estimate includes cost for canals, ditches, pump stations, check structures, pipelines, wiers, pumps, new bridges, culverts, inverted siphons and turnouts.
 5. Field Office overhead rates includes costs for transportation of most employees to job site (in lieu of per diem costs for employees).
 6. Excavation costs include environmental protection.
 7. The following is clarification of the ratings of electrical equipment boxes and mountings. Electrical Enclosures are general purpose, NEMA1, where installed in/on site buildings, such as at pump sites with pumps rated 30HP and larger. Otherwise, NEMA 3R enclosures (boxes) are provided for "Electrical", "Control" and pool level measurement equipment; such enclosures are then mounted/supported on metallic mounting/support "racks".

on 28 Apr 2003
ff. Date 04/11/03
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003

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U.S. Army Corps of Engineers
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Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Feature (Rounded to 10's) **

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SUMMARY PAGE 1

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
01 Lands and Damages	1.00	EA	17,850,000	0	17,850,000	17850000
02 Relocations	1.00	EA	27,085,460	3,250,260	30,335,720	30335720
03 Reservoirs	91.00	ACR	1,571,890	188,630	1,760,520	19346.39
09 Channels and Canals	1.00	EA	223,214,890	18985790	242,200,670	242200675
13 Pumping Plants	1.00	EA	26,291,010	3,154,920	29,445,930	29445934
19 Buildings,Grounds, & Utilities	1.00	EA	4,601,640	552,200	5,153,840	5153840
30 Planning, Engineering and Design	217764890	DOL	21,776,490	2,613,180	24,389,670	0.11
31 Construction Management	217764890	DOL	13,065,890	1,567,910	14,633,800	0.07
.....						
TOTAL Bayou Meto Feas.Est.28 Apr.2003	1.00	EA	335,457,280	30312870	365,770,160	365770159

on 28 Apr 2003
ff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Contract (Rounded to 10's) **

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SUMMARY PAGE 2

		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

01 Lands and Damages							
01.25	Real Estate			16,900,000	0	16,900,000	
01.30	Mitigation			950,000	0	950,000	
TOTAL Lands and Damages				17,850,000	0	17,850,000	17850000
02 Relocations							
02.11	Contract Area 2	1.00	EA	5,207,190	624,860	5,832,050	5832047
02.13	Contract Area 4	1.00	EA	2,071,860	248,620	2,320,490	2320486
02.14	Contract Area 5	1.00	EA	2,797,740	335,730	3,133,470	3133468
02.15	Contract Area 6	1.00	EA	1,406,840	168,820	1,575,660	1575659
02.17	Contract Area 7B	1.00	EA	1,357,580	162,910	1,520,490	1520486
02.18	Contract Area 9	1.00	EA	2,723,850	326,860	3,050,710	3050709
02.19	Contract Area 10	1.00	EA	5,516,360	661,960	6,178,320	6178321
02.24	Contract Area 15	1.00	EA	1,192,410	143,090	1,335,500	1335497
02.26	Contract Area 17	1.00	EA	4,811,650	577,400	5,389,050	5389046
TOTAL Relocations				27,085,460	3,250,260	30,335,720	30335720
03 Reservoirs							
03.10	Reservoirs--R1000--CA1	35.00	ACR	692,250	83,070	775,320	22151.88
03.30	Reservoirs--R2500/3000--CA8	29.00	ACR	379,520	45,540	425,060	14657.28
03.40	Reservoirs--R4000--CA14	27.00	ACR	500,130	60,020	560,140	20746.09
TOTAL Reservoirs				1,571,890	188,630	1,760,520	19346.39
09 Channels and Canals							
09.01	Canals Contract Area 1	1.00	EA	2,312,470	277,500	2,589,960	2589962
09.02	Canals Contract Area 2	1.00	EA	14,242,640	1,709,120	15,951,760	15951761
09.03	Canals Contract Area 3A	1.00	EA	23,530,630	2,823,680	26,354,300	26354302
09.04	Canals Contract Area 3B	1.00	EA	1,785,410	214,250	1,999,660	1999658
09.05	Canals Contract Area 4	1.00	EA	6,377,830	765,340	7,143,170	7143169
09.06	Canals Contract Area 5	1.00	EA	27,170,110	3,260,410	30,430,530	30430527
09.07	Canals Contract Area 6	1.00	EA	21,589,100	2,590,690	24,179,800	24179796
09.08	Canals Contract Area 7A	1.00	EA	17,399,430	2,087,930	19,487,370	19487367
09.09	Canals Contract Area 7B	1.00	EA	3,052,960	366,360	3,419,310	3419314
09.10	Canals Contract Area 8	1.00	EA	1,094,830	131,380	1,226,210	1226208
09.11	Canals Contract Area 9	1.00	EA	2,486,390	298,370	2,784,750	2784752
09.12	Canals Contract Area 10	1.00	EA	3,630,470	435,660	4,066,130	4066128
09.13	Canals Contract Area 11	1.00	EA	6,422,970	770,760	7,193,730	7193727
09.14	Canals Contract Area 12	1.00	EA	1,881,710	225,800	2,107,510	2107511
09.15	Canals Contract Area 13	1.00	EA	643,490	77,220	720,710	720708.85
09.16	Canals Contract Area 14	1.00	EA	972,060	116,650	1,088,710	1088705

BOR ID: BMLABR

EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA

UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Contract (Rounded to 10's) **

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SUMMARY PAGE 3

				QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.17	Canals	Contract Area	15	1.00	EA	893,590	107,230	1,000,820	1000819
09.18	Canals	Contract Area	16	1.00	EA	3,621,040	434,520	4,055,570	4055565
09.19	Canals	Contract Area	17	1.00	EA	19,107,760	2,292,930	21,400,700	21400696
09.80	On Farm	Cost				65,000,000	0	65,000,000	
TOTAL Channels and Canals				1.00	EA	223,214,890	18985790	242,200,670	242200675
13 Pumping Plants									
13.05	Pump.Plant-P1000R-1750cfsCA01	P1		1.00	EA	18,387,700	2,206,520	20,594,230	20594228
13.12	Pump.Plant-P-2000R-625cfsCA08	P2		1.00	EA	3,886,020	466,320	4,352,340	4352339
13.16	Pump.Plant-P-3000R-260cfsCA14	P3		1.00	EA	2,056,240	246,750	2,302,980	2302985
13.22	Pump.Plant-P-2140R-125cfsCA05	P4		1.00	EA	1,961,060	235,330	2,196,380	2196383
TOTAL Pumping Plants				1.00	EA	26,291,010	3,154,920	29,445,930	29445934
19 Buildings,Grounds, & Utilities									
19.05	SITE WORK --OPER. & MAINT. BLDGS			1.00	EA	636,910	76,430	713,340	713341.64
19.10	ADMINISTRATION BUILDING			1.00	EA	1,479,030	177,480	1,656,510	1656513
19.15	MAINTENANCE BUILDING			1.00	EA	426,180	51,140	477,320	477318.46
19.20	Radio House Structure			1.00	EA	203,950	24,470	228,430	228425.71
19.25	Irrigation Sytem Controls/Comm			1.00	EA	1,855,570	222,670	2,078,240	2078241
TOTAL Buildings,Grounds, & Utilities				1.00	EA	4,601,640	552,200	5,153,840	5153840
30	Planning, Engineering and Design			217764890	DOL	21,776,490	2,613,180	24,389,670	0.11
31	Construction Management			217764890	DOL	13,065,890	1,567,910	14,633,800	0.07
TOTAL Bayou Meto Feas.Est.28 Apr.2003				1.00	EA	335,457,280	30312870	365,770,160	365770159

on 28 Apr 2003
ff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Level 3 (Rounded to 10's) **

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SUMMARY PAGE 4

	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
01 Lands and Damages						
01.25 Real Estate			16,900,000	0	16,900,000	
01.30 Mitigation			950,000	0	950,000	
TOTAL Lands and Damages	1.00	EA	17,850,000	0	17,850,000	17850000
02 Relocations						
02.11 Contract Area 2						
02.11.01 Roads, Construction Activities	1.00	EA	4,637,790	556,530	5,194,320	5194319
02.11.10 Cemetery, Utilities, & Structure	1.00	EA	569,400	68,330	637,730	637728.03
TOTAL Contract Area 2	1.00	EA	5,207,190	624,860	5,832,050	5832047
02.13 Contract Area 4						
02.13.01 Roads, Construction Activities	1.00	EA	1,461,890	175,430	1,637,320	1637322
02.13.10 Cemetery, Utilities, & Structure	1.00	EA	609,970	73,200	683,160	683164.14
TOTAL Contract Area 4	1.00	EA	2,071,860	248,620	2,320,490	2320486
02.14 Contract Area 5						
02.14.01 Roads, Construction Activities	1.00	EA	2,589,100	310,690	2,899,800	2899797
02.14.10 Cemetery, Utilities, & Structure	1.00	EA	208,640	25,040	233,670	233671.35
TOTAL Contract Area 5	1.00	EA	2,797,740	335,730	3,133,470	3133468
02.15 Contract Area 6						
02.15.01 Roads, Construction Activities	1.00	EA	1,224,280	146,910	1,371,200	1371196
02.15.10 Cemetery, Utilities, & Structure	1.00	EA	182,560	21,910	204,460	204462.43
TOTAL Contract Area 6	1.00	EA	1,406,840	168,820	1,575,660	1575659
02.17 Contract Area 7B						
02.17.01 Roads, Construction Activities	1.00	EA	1,177,920	141,350	1,319,270	1319269
02.17.10 Cemetery, Utilities, & Structure	1.00	EA	179,660	21,560	201,220	201217.00
TOTAL Contract Area 7B	1.00	EA	1,357,580	162,910	1,520,490	1520486

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02.18 Contract Area 9						
02.18.01 Roads, Construction Activities	1.00	EA	2,486,240	298,350	2,784,580	2784584
02.18.10 Cemetery, Utilities, & Structure	1.00	EA	237,610	28,510	266,130	266125.70
TOTAL Contract Area 9	1.00	EA	2,723,850	326,860	3,050,710	3050709
02.19 Contract Area 10						
02.19.01 Roads, Construction Activities	1.00	EA	5,174,430	620,930	5,795,360	5795360
02.19.10 Cemetery, Utilities, & Structure	1.00	EA	341,930	41,030	382,960	382961.38
TOTAL Contract Area 10	1.00	EA	5,516,360	661,960	6,178,320	6178321
02.24 Contract Area 15						
02.24.01 Roads, Construction Activities	1.00	EA	1,041,730	125,010	1,166,730	1166734
02.24.10 Cemetery, Utilities, & Structure	1.00	EA	150,680	18,080	168,760	168762.44
TOTAL Contract Area 15	1.00	EA	1,192,410	143,090	1,335,500	1335497
02.26 Contract Area 17						
02.26.01 Roads, Construction Activities	1.00	EA	3,410,600	409,270	3,819,880	3819877
02.26.10 Cemetery, Utilities, & Structure	1.00	EA	1,401,040	168,130	1,569,170	1569168
TOTAL Contract Area 17	1.00	EA	4,811,650	577,400	5,389,050	5389046
TOTAL Relocations	1.00	EA	27,085,460	3,250,260	30,335,720	30335720
03 Reservoirs						
03.10 Reservoirs--R1000--CA1						
03.10.01 Mob, Demob & Preparatory Work			31,500	3,780	35,280	
03.10.02 Drainage	200.00	HR	1,280	150	1,440	7.19
03.10.03 Turfing Impoundment Levees	15.00	AC	14,510	1,740	16,250	1083.51
03.10.04 Embankment	253300.00	CY	471,760	56,610	528,380	2.09
03.10.48 Clearing and Debris Removal	28.00	AC	31,850	3,820	35,670	1273.95
03.10.60 Access Road and Parking	1.00	EA	113,130	13,580	126,700	126702.22
03.10.70 Clearing Borrow and Haul Road	18.00	AC	20,470	2,460	22,930	1273.95
03.10.80 Turfing Haul Roads	8.00	AC	7,740	930	8,670	1083.51
TOTAL Reservoirs--R1000--CA1	35.00	ACR	692,250	83,070	775,320	22151.88
03.30 Reservoirs--R2500/3000--CA8						

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03.30.01 Clearing and Grubbing	23.00 ACR	26,160	3,140	29,300	1273.95
03.30.02 Impondment Levee	271650.00 CY	288,680	34,640	323,330	1.19
03.30.03 Turfing Impoundment Levees	15.00 ACR	12,600	1,510	14,110	940.86
03.30.04 Care of Water	500.00 HR	3,210	390	3,600	7.19
03.30.05 Clearing Borrow and Haul Roads	14.00 AC	15,920	1,910	17,840	1273.95
03.30.06 Turfing Haul Roads	8.00 AC	7,740	930	8,670	1083.51
03.30.07 MOB and Demob		25,200	3,020	28,220	
TOTAL Reservoirs--R2500/3000--CA8	29.00 ACR	379,520	45,540	425,060	14657.28
03.40 Reservoirs--R4000--CA14					
03.40.01 Mob, Demob & Preparatory Work		31,500	3,780	35,280	
03.40.02 Drainage	600.00 HR	24,580	2,950	27,520	45.87
03.40.03 Embankment	28354.00 CY	30,130	3,620	33,750	1.19
03.40.04 Turfing Impoundment Levees	5.00 AC	4,840	580	5,420	1083.51
03.40.05 Excavation of Excess Material	206212.00 CY	384,060	46,090	430,150	2.09
03.40.48 Clearing and Debris Removal	22.00 AC	25,020	3,000	28,030	1273.95
TOTAL Reservoirs--R4000--CA14	27.00 ACR	500,130	60,020	560,140	20746.09
TOTAL Reservoirs	91.00 ACR	1,571,890	188,630	1,760,520	19346.39
09 Channels and Canals					
09.01 Canals Contract Area 1					
09.01.01 Mob, Demob & Preparatory Work		25,200	3,020	28,220	
09.01.10 Canal Excavation	422200.00 CY	592,420	71,090	663,520	1.57
09.01.15 Riprap and Filter	8126.00 TON	185,300	22,240	207,530	25.54
09.01.30 Check Structures	1.00 EA	1,509,540	181,150	1,690,690	1690690
TOTAL Canals Contract Area 1	1.00 EA	2,312,470	277,500	2,589,960	2589962
09.02 Canals Contract Area 2					
09.02.01 Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.02.10 Canal Excavation	2188000 CY	3,675,590	441,070	4,116,660	1.88
09.02.25 Pumps	8.00 EA	888,270	106,590	994,860	124357.36
09.02.30 Check Structures	3.00 EA	4,350,610	522,070	4,872,680	1624228
09.02.50 Inverted Siphons	13.00 EA	4,744,270	569,310	5,313,590	408737.44
09.02.70 New Canal Landowner Takeoffs	19.00 EA	488,470	58,620	547,090	28794.28
09.02.80 Pipeline Landowner Takeoffs	3.00 EA	32,430	3,890	36,320	12107.99
TOTAL Canals Contract Area 2	1.00 EA	14,242,640	1,709,120	15,951,760	15951761
09.03 Canals Contract Area 3A					

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09.03.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.03.15	Existing Channel Improvements		650,230	78,030	728,260	
09.03.20	Pipe Lines	565495.00 LF	15,529,970	1,863,600	17,393,570	30.76
09.03.25	Pumps	39.00 EA	5,189,500	622,740	5,812,240	149031.72
09.03.40	Weirs	5.00 EA	97,230	11,670	108,900	21780.15
09.03.50	Inverted Siphons	1.00 EA	77,150	9,260	86,410	86405.98
09.03.60	Gatewell Turnout Structures	1.00 EA	229,150	27,500	256,650	256649.61
09.03.75	Extg Canal Landowner Takeoff(3A)	25.00 EA	553,460	66,420	619,880	24795.07
09.03.80	Pipeline Landowner Takeoffs (3A)	104.00 EA	1,124,310	134,920	1,259,230	12107.99
09.03.85	24" CMP Drop Structures (3A)	10.00 EA	16,620	1,990	18,620	1861.59
TOTAL Canals Contract Area 3A		1.00 EA	23,530,630	2,823,680	26,354,300	26354302
09.04 Canals Contract Area 3B						
09.04.10	Canal Excavation	641700.00 CY	294,090	35,290	329,380	0.51
09.04.70	New Canal Landowner Takeoffs(3B)	4.00 EA	102,840	12,340	115,180	28794.28
09.04.76	Extg Canal Landowner Takeoff(3B)	22.00 EA	487,050	58,450	545,490	24795.07
09.04.81	Pipeline Landowner Takeoffs (3B)	82.00 EA	886,480	106,380	992,860	12107.99
09.04.86	24" CMP Drop Structures (3B)	9.00 EA	14,960	1,800	16,750	1861.59
TOTAL Canals Contract Area 3B		1.00 EA	1,785,410	214,250	1,999,660	1999658
09.05 Canals Contract Area 4						
09.05.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.05.10	Canal Excavation	1643100 CY	533,090	63,970	597,060	0.36
09.05.20	Pipe Lines	85715.00 LF	2,089,380	250,730	2,340,100	27.30
09.05.25	Pumps	7.00 EA	974,790	116,970	1,091,760	155966.16
09.05.50	Inverted Siphons	7.00 EA	1,231,370	147,760	1,379,140	197019.82
09.05.60	Gatewell Turnout Structures	2.00 EA	444,720	53,370	498,090	249044.53
09.05.70	New Canal Landowner Takeoffs	11.00 EA	282,800	33,940	316,740	28794.28
09.05.75	Existing Canal Landowner Takeoff	15.00 EA	332,080	39,850	371,930	24795.07
09.05.80	Pipeline Landowner Takeoffs	39.00 EA	421,620	50,590	472,210	12107.99
09.05.85	24" CMP Drop Structures	3.00 EA	4,990	600	5,580	1861.59
TOTAL Canals Contract Area 4		1.00 EA	6,377,830	765,340	7,143,170	7143169
09.06 Canals Contract Area 5						
09.06.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.06.10	Canal Excavation	443600.00 CY	2,305,930	276,710	2,582,650	5.82
09.06.15	Existing Channel Improvements		367,530	44,100	411,640	
09.06.20	Pipe Lines	601920.00 LF	12,178,530	1,461,420	13,639,950	22.66
09.06.25	Pumps	31.00 EA	4,203,050	504,370	4,707,420	151852.25
09.06.30	Check Structures	2.00 EA	2,186,140	262,340	2,448,480	1224241
09.06.40	Weirs	9.00 EA	176,660	21,200	197,860	21984.31
09.06.50	Inverted Siphons	15.00 EA	1,536,040	184,320	1,720,360	114690.65

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09.06.70	New Canal Landowner Takeoffs	27.00 EA	694,150	83,300	777,450	28794.28
09.06.75	Existing Canal Landowner Takeoff	38.00 EA	841,260	100,950	942,210	24795.07
09.06.80	Pipeline Landowner Takeoffs	238.00 EA	2,572,950	308,750	2,881,700	12107.99
09.06.85	24" CMP Drop Structures	27.00 EA	44,880	5,390	50,260	1861.59
TOTAL Canals Contract Area 5		1.00 EA	27,170,110	3,260,410	30,430,530	30430527
09.07 Canals Contract Area 6						
09.07.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.07.10	Canal Excavation	868600.00 CY	355,620	42,670	398,300	0.46
09.07.18	Existing Channel Improvements		870,200	104,420	974,630	
09.07.20	Pipe Lines	286722.00 LF	11,100,930	1,332,110	12,433,040	43.36
09.07.25	Pumps	34.00 EA	4,848,670	581,840	5,430,510	159720.87
09.07.40	Weirs	15.00 EA	320,460	38,460	358,920	23927.92
09.07.50	Inverted Siphons	7.00 EA	1,291,310	154,960	1,446,270	206609.88
09.07.60	Gatewell Turnout Structures	6.00 EA	920,790	110,500	1,031,290	171881.61
09.07.70	New Canal Landowner Takeoffs	13.00 EA	334,220	40,110	374,330	28794.28
09.07.75	Existing Canal Landowner Takeoff	28.00 EA	619,880	74,390	694,260	24795.07
09.07.80	Pipeline Landowner Takeoffs	79.00 EA	854,050	102,490	956,530	12107.99
09.07.85	24" CMP Drop Structures	6.00 EA	9,970	1,200	11,170	1861.59
TOTAL Canals Contract Area 6		1.00 EA	21,589,100	2,590,690	24,179,800	24179796
09.08 Canals Contract Area 7A						
09.08.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.08.18	Canal Excavation	120.00 AC	335,160	40,220	375,380	3128.18
09.08.19	Existing Channel Improvements	120.00 AC	1,801,000	216,120	2,017,130	16809.38
09.08.20	Pipe Lines	381615.00 LF	8,676,070	1,041,130	9,717,200	25.46
09.08.25	Pumps	33.00 EA	4,405,970	528,720	4,934,690	149535.99
09.08.40	Weirs	10.00 EA	279,410	33,530	312,940	31294.12
09.08.50	Inverted Siphons	3.00 EA	247,710	29,720	277,430	92476.99
09.08.60	Gatewell Turnout Structures	2.00 EA	467,280	56,070	523,360	261679.58
09.08.70	New Canal Landowner Takeoffs(7A)	4.00 EA	102,840	12,340	115,180	28794.28
09.08.75	Existing Canal LO Takeoffs (7A)	35.00 EA	774,850	92,980	867,830	24795.07
09.08.80	Pipeline Landowner Takeoffs (7A)	22.00 EA	237,840	28,540	266,380	12107.99
09.08.85	24" CMP Drop Structures (7A)	5.00 EA	8,310	1,000	9,310	1861.59
TOTAL Canals Contract Area 7A		1.00 EA	17,399,430	2,087,930	19,487,370	19487367
09.09 Canals Contract Area 7B						
09.09.20	Pumps	4.00 EA	759,340	91,120	850,470	212616.47
09.09.25	Canal Excavation	4.00 EA	599,690	71,960	671,650	167911.88
09.09.71	New Canal Landowner Takeoffs(7B)	12.00 EA	308,510	37,020	345,530	28794.28
09.09.81	Pipeline Landowner Takeoffs (7B)	126.00 EA	1,362,150	163,460	1,525,610	12107.99

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09.09.86 24" CMP Drop Structures (7B)	14.00	EA	23,270	2,790	26,060	1861.59
TOTAL Canals Contract Area 7B	1.00	EA	3,052,960	366,360	3,419,310	3419314
09.10 Canals Contract Area 8						
09.10.01 Mob, Demob & Preparatory Work			25,200	3,020	28,220	
09.10.30 Check Structures	1.00	EA	1,018,210	122,190	1,140,400	1140399
09.10.70 New Canal Landowner Takeoffs	2.00	EA	51,420	6,170	57,590	28794.27
TOTAL Canals Contract Area 8	1.00	EA	1,094,830	131,380	1,226,210	1226208
09.11 Canals Contract Area 9						
09.11.01 Mob, Demob & Preparatory Work			31,500	3,780	35,280	
09.11.05 Canal Excavation	451100.00	CY	366,210	43,940	410,150	0.91
09.11.30 Check Structures	2.00	EA	1,857,300	222,880	2,080,170	1040087
09.11.70 New Canal Landowner Takeoffs	9.00	EA	231,380	27,770	259,150	28794.28
TOTAL Canals Contract Area 9	1.00	EA	2,486,390	298,370	2,784,750	2784752
09.12 Canals Contract Area 10						
09.12.01 Mob, Demob & Preparatory Work			31,500	3,780	35,280	
09.12.10 Canal Excavation	1372100	CY	907,520	108,900	1,016,430	0.74
09.12.30 Check Structures	1.00	EA	1,018,210	122,190	1,140,400	1140399
09.12.50 Inverted Siphons	8.00	EA	1,152,400	138,290	1,290,690	161335.93
09.12.60 Gatewell Turnout Structures	1.00	EA	315,170	37,820	352,990	352985.99
09.12.70 New Canal Landowner Takeoffs	8.00	EA	205,670	24,680	230,350	28794.28
TOTAL Canals Contract Area 10	1.00	EA	3,630,470	435,660	4,066,130	4066128
09.13 Canals Contract Area 11						
09.13.01 Mob, Demob & Preparatory Work			31,500	3,780	35,280	
09.13.09 Existing Channel Impr Oak Branch			547,890	65,750	613,630	
09.13.20 Pipe Lines	100154.00	LF	4,295,520	515,460	4,810,980	48.04
09.13.40 Weirs	15.00	EA	209,690	25,160	234,860	15657.12
09.13.50 Inverted Siphons	4.00	EA	282,360	33,880	316,250	79061.90
09.13.75 Existing Canal Landowner Takeoff	31.00	EA	685,960	82,320	768,280	24783.10
09.13.80 Pipeline Landowner Takeoffs	33.00	EA	356,750	42,810	399,560	12107.99
09.13.85 24" CMP Drop Structures	8.00	EA	13,300	1,600	14,890	1861.59
TOTAL Canals Contract Area 11	1.00	EA	6,422,970	770,760	7,193,730	7193727
09.14 Canals Contract Area 12						

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09.14.01 Mob. Demob & Preparatory Work		25,200	3,020	28,220	
09.14.20 Pipe Lines	6562.00 LF	693,310	83,200	776,510	118.33
09.14.25 Pumps	6.00 EA	792,800	95,140	887,930	147988.42
09.14.70 New Canal Landowner Takeoffs	6.00 EA	154,190	18,500	172,690	28782.31
09.14.80 Pipeline Landowner Takeoffs	20.00 EA	216,210	25,950	242,160	12107.99
TOTAL Canals Contract Area 12	1.00 EA	1,881,710	225,800	2,107,510	2107511
09.15 Canals Contract Area 13					
09.15.01 Mob. Demob & Preparatory Work		31,500	3,780	35,280	
09.15.20 Pipe Lines	67102.00 LF	194,790	23,370	218,160	3.25
09.15.25 Pumps	2.00 EA	202,230	24,270	226,500	113248.33
09.15.70 New Canal Landowner Takeoffs	5.00 EA	128,490	15,420	143,910	28782.31
09.15.80 Pipeline Landowner Takeoffs	8.00 EA	86,490	10,380	96,860	12107.99
TOTAL Canals Contract Area 13	1.00 EA	643,490	77,220	720,710	720708.85
09.16 Canals Contract Area 14					
09.16.01 Mob. Demob & Preparatory Work		25,200	3,020	28,220	
09.16.30 Check Structures	1.00 EA	921,160	110,540	1,031,700	1031702
09.16.70 New Canal Landowner Takeoffs	1.00 EA	25,700	3,080	28,780	28782.31
TOTAL Canals Contract Area 14	1.00 EA	972,060	116,650	1,088,710	1088705
09.17 Canals Contract Area 15					
09.17.01 Mob. Demob & Preparatory Work		25,200	3,020	28,220	
09.17.10 Canal Excavation	758400.00 CY	189,580	22,750	212,320	0.28
09.17.50 Inverted Siphons	3.00 EA	333,630	40,040	373,670	124556.73
09.17.60 Gatewell Turnout Structures	1.00 EA	216,690	26,000	242,690	242691.56
09.17.70 New Canal Landowner Takeoffs	5.00 EA	128,490	15,420	143,910	28782.31
TOTAL Canals Contract Area 15	1.00 EA	893,590	107,230	1,000,820	1000819
09.18 Canals Contract Area 16					
09.18.01 Mob. Demob & Preparatory Work		31,500	3,780	35,280	
09.18.20 Pipe Lines	74165.00 LF	2,732,470	327,900	3,060,370	41.26
09.18.25 Pumps	4.00 EA	563,160	67,580	630,740	157684.47
09.18.75 Existing Canal Landowner Takeoff	4.00 EA	88,510	10,620	99,130	24783.11
09.18.80 Pipeline Landowner Takeoffs	19.00 EA	205,400	24,650	230,050	12107.99
TOTAL Canals Contract Area 16	1.00 EA	3,621,040	434,520	4,055,570	4055565

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09.19 Canals Contract Area 17						
09.19.01 Mob. Demob & Preparatory Work			62,990	7,560	70,550	
09.19.08 Canal Excavation	758400.00	CY	1,235,800	148,300	1,384,100	1.83
09.19.20 Pipe Lines	291887.00	LF	8,244,190	989,300	9,233,490	31.63
09.19.25 Pumps	20.00	EA	2,681,340	321,760	3,003,100	150155.13
09.19.30 Check Structures	1.00	EA	889,950	106,790	996,750	996745.01
09.19.40 Weirs	2.00	EA	37,480	4,500	41,980	20990.57
09.19.50 Inverted Siphons	13.00	EA	3,221,350	386,560	3,607,910	277531.53
09.19.60 Gatewell Turnout Structures	1.00	EA	261,700	31,400	293,100	293101.52
09.19.65 Existing Channel Improvement			480,650	57,680	538,330	
09.19.70 New Canal Landowner Takeoffs	38.00	EA	976,540	117,190	1,093,730	28782.31
09.19.75 Existing Canal Landowner Takeoff	9.00	EA	199,150	23,900	223,050	24783.10
09.19.80 Pipeline Landowner Takeoffs	74.00	EA	799,990	96,000	895,990	12107.99
09.19.85 24" CMP Drop Structures	10.00	EA	16,620	1,990	18,620	1861.59
TOTAL Canals Contract Area 17	1.00	EA	19,107,760	2,292,930	21,400,700	21400696
09.80 On Farm Cost			65,000,000	0	65,000,000	
TOTAL Channels and Canals	1.00	EA	223,214,890	18985790	242,200,670	242200675
13 Pumping Plants						
13.05 Pump.Plant-P1000R-1750cfsCA01 P1						
13.05.01 Mob. Demob & Preparatory Work			68,410	8,210	76,620	
13.05.02 Site Work			491,860	59,020	550,880	
13.05.03 Care and Diversion of Water			1,026,800	123,220	1,150,010	
13.05.05 Gated Control Structure (Concr)			378,900	45,470	424,370	
13.05.06 Outlet Work (Concrete)			137,990	16,560	154,550	
13.05.10 Earthwork for Structures			532,770	63,930	596,700	
13.05.18 Utilities			2,072,810	248,740	2,321,540	
13.05.74 Substructure (Concrete)	5602.00	CY	1,921,000	230,520	2,151,520	384.06
13.05.75 Superstructure			4,401,900	528,230	4,930,130	
13.05.76 Pumping Machinery & Appurtenance			5,197,290	623,670	5,820,960	
13.05.77 Gates and Valves			1,444,480	173,340	1,617,820	
13.05.78 Auxiliary Equipment			713,500	85,620	799,120	
TOTAL Pump.Plant-P1000R-1750cfsCA01 P1	1.00	EA	18,387,700	2,206,520	20,594,230	20594228
13.12 Pump.Plant-P-2000R-625cfsCA08 P2						
13.12.10 Civil	1.00	EA	595,560	71,470	667,030	667028.70
13.12.20 Structural Superstructure	1.00	EA	62,990	7,560	70,550	70552.94
13.12.22 Structural Substructure	1.00	EA	337,900	40,550	378,450	378445.99
13.12.30 Mechanical	1.00	EA	1,830,650	219,680	2,050,320	2050322
13.12.40 Electrical	1.00	EA	1,058,920	127,070	1,185,990	1185989

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TOTAL Pump.Plant-P-2000R-625cfsCA08 P2	1.00	EA	3,886,020	466,320	4,352,340	4352339
13.16 Pump.Plant-P-3000R-260cfsCA14 P3						
13.16.10 Civil	1.00	EA	562,330	67,480	629,810	629812.02
13.16.20 Structural Superstructure	1.00	EA	62,990	7,560	70,550	70552.94
13.16.22 Structural Substructure	1.00	EA	169,450	20,330	189,790	189787.42
13.16.30 Mechanical	1.00	EA	631,090	75,730	706,820	706816.53
13.16.40 Electrical	1.00	EA	630,370	75,640	706,020	706015.78
TOTAL Pump.Plant-P-3000R-260cfsCA14 P3	1.00	EA	2,056,240	246,750	2,302,980	2302985
13.22 Pump.Plant-P-2140R-125cfsCA05 P4						
13.22.10 Civil	1.00	EA	556,270	66,750	623,020	623024.83
13.22.20 Structural Superstructure	1.00	EA	37,800	4,540	42,330	42331.77
13.22.22 Structural Substructure	1.00	EA	112,130	13,460	125,580	125584.24
13.22.30 Mechanical	1.00	EA	421,580	50,590	472,170	472167.80
13.22.40 Electrical	1.00	EA	833,280	99,990	933,270	933274.06
TOTAL Pump.Plant-P-2140R-125cfsCA05 P4	1.00	EA	1,961,060	235,330	2,196,380	2196383
TOTAL Pumping Plants	1.00	EA	26,291,010	3,154,920	29,445,930	29445934
19 Buildings.Grounds, & Utilities						
19.05 SITE WORK --OPER. & MAINT. BLDGS						
19.05.05 Clearing and Grubbing	5.40	AC	3,990	480	4,460	826.63
19.05.10 Top Soil Removal (4 inches)	2886.00	CY	2,350	280	2,640	0.91
19.05.15 Aggregate Base Course, Class &	6490.00	TON	127,810	15,340	143,150	22.06
19.05.20 ACHM 3-1/2" Binder Course	1033.00	TON	40,060	4,810	44,870	43.44
19.05.25 ACHM 1-1/2" Surface Course	443.00	TON	19,300	2,320	21,620	48.80
19.05.30 Concrete Curb and Gutter	1808.00	LF	32,080	3,850	35,930	19.87
19.05.35 Conc Curb btw Pkg Lot & Sidewalk	290.00	LF	5,960	720	6,680	23.03
19.05.40 8" Concrete Pavement	844.00	SY	54,240	6,510	60,750	71.98
19.05.45 6" Concrete Pavement	116.00	SY	9,950	1,190	11,140	96.08
19.05.50 Excavation and Backfill	200.00	CY	3,770	450	4,220	21.10
19.05.55 4" Concrete Sidewalks	460.00	SY	35,170	4,220	39,390	85.64
19.05.60 Reflectorized Paint Pvmnt Marking	1310.00	LF	300	40	340	0.26
19.05.62 Handicapped Parking Signs	3.00	EA	190	20	210	69.47
19.05.64 6' Chain Link Fence	1210.00	LF	18,770	2,250	21,020	17.38
19.05.66 Gates	2.00	EA	19,510	2,340	21,850	10927.44
19.05.68 Fueling System	1.00	EA	9,780	1,170	10,950	10951.94
19.05.70 Fuel Storage Tanks (20,000 Gal)	2.00	EA	32,880	3,950	36,830	18412.90
19.05.72 Trees	44.00	EA	40,200	4,820	45,030	1023.36
19.05.74 Bushes	93.00	EA	2,560	310	2,870	30.84
19.05.76 Solid Sodding (Bermuda)	2589.00	SY	6,810	820	7,620	2.94

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19.05.78 Seeding	1695.00 SY	12,830	1,540	14,360	8.47
19.05.80 Flag Poles	2.00 EA	6,450	770	7,220	3611.07
19.05.82 Plumbing, Water & Sewer	1.00 EA	4,780	570	5,360	5355.52
19.05.84 Geotextile, Riprap & Bedding	105.00 TON	6,960	840	7,800	74.26
19.05.86 Lay 48" RCP	132.00 LF	20,030	2,400	22,440	169.97
19.05.88 Canal Gate	2.00 EA	19,180	2,300	21,480	10739.24
19.05.90 Metal Work	1.00 EA	1,660	200	1,860	1864.29
19.05.92 Outlet Structure for 48" Pipe	1.00 EA	10,210	1,220	11,430	11430.32
19.05.94 Stilling Wells	2.00 EA	11,940	1,430	13,380	6688.36
19.05.96 Electrical Work, 03/14/01	1.00 EA	77,170	9,260	86,430	86432.68
TOTAL SITE WORK --OPER. & MAINT. BLDGS	1.00 EA	636,910	76,430	713,340	713341.64

19.10 ADMINISTRATION BUILDING

19.10.05 BUILDING SITE ADMIN. BLDG	1.00 EA	50,280	6,030	56,320	56317.08
19.10.10 CONCRETE	1.00 EA	63,820	7,660	71,480	71476.88
19.10.15 MASONRY	1.00 EA	123,670	14,840	138,510	138506.37
19.10.20 METALS	1.00 EA	116,840	14,020	130,860	130861.98
19.10.25 METALS & PLASTICS	1.00 EA	62,280	7,470	69,750	69750.01
19.10.30 THERMAL AND MOISTURE PROTECTION	1.00 EA	107,290	12,880	120,170	120169.52
19.10.35 DOORS AND WINDOWS	1.00 EA	78,170	9,380	87,550	87551.45
19.10.40 FINISHES	1.00 EA	190,180	22,820	213,000	212997.60
19.10.45 SPECIALTIES	1.00 EA	39,330	4,720	44,060	44055.12
19.10.50 SPECIAL CONSTRUCTION	1.00 EA	10,570	1,270	11,840	11842.73
19.10.55 MECHANICAL	1.00 EA	143,930	17,270	161,210	161205.89
19.10.60 ELECTRICAL	1.00 EA	492,660	59,120	551,780	551778.41
TOTAL ADMINISTRATION BUILDING	1.00 EA	1,479,030	177,480	1,656,510	1656513

19.15 MAINTENANCE BUILDING

19.15.05 SITE	1.00 EA	34,310	4,120	38,420	38424.92
19.15.10 CONCRETE	1.00 EA	37,820	4,540	42,360	42359.99
19.15.15 METALS	1.00 EA	20,220	2,430	22,650	22647.29
19.15.20 WOOD & PLASTICS	1.00 EA	29,590	3,550	33,140	33136.96
19.15.25 THERMAL & MOISTURE PROOFING	1.00 EA	3,550	430	3,970	3971.47
19.15.30 DOORS AND WINDOWS	1.00 EA	37,230	4,470	41,700	41695.06
19.15.35 FINISHES	1.00 EA	48,450	5,810	54,270	54265.59
19.15.40 SPECIALTIES	1.00 EA	6,120	730	6,850	6854.06
19.15.45 SPECIAL CONSTRUCTION	1.00 EA	66,770	8,010	74,780	74778.63
19.15.50 MECHANICAL	1.00 EA	25,460	3,050	28,510	28512.73
19.15.55 ELECTRICAL	1.00 EA	116,670	14,000	130,670	130671.76
TOTAL MAINTENANCE BUILDING	1.00 EA	426,180	51,140	477,320	477318.46

19.20 Radio House Structure

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19.20. 1 Radio Tower Structure	1.00	EA	18,380	2,210	20,590	20588.52
19.20. 2 Radio Tower Concrete Base	20.00	CY	4,380	530	4,910	245.47
19.20. 3 Electrical Control Building	1.00	EA	67,110	8,050	75,160	75164.71
19.20. 4 Electrical	1.00	EA	91,070	10,930	102,000	101995.48
19.20. 5 Generator & Auto Transfer Sw Sys	1.00	EA	23,010	2,760	25,770	25767.64
TOTAL Radio House Structure	1.00	EA	203,950	24,470	228,430	228425.71
19.25 Irrigation Sytem Controls/Comm						
19.25.10 Fiber Optic Backbone	1.00	EA	1,355,200	162,620	1,517,820	1517825
19.25.20 Radio Link Component	1.00	EA	500,370	60,040	560,420	560416.14
TOTAL Irrigation Sytem Controls/Comm	1.00	EA	1,855,570	222,670	2,078,240	2078241
TOTAL Buildings,Grounds, & Utilities	1.00	EA	4,601,640	552,200	5,153,840	5153840
30 Planning, Engineering and Design	217764890	DOL	21,776,490	2,613,180	24,389,670	0.11
31 Construction Management	217764890	DOL	13,065,890	1,567,910	14,633,800	0.07
TOTAL Bayou Meto Feas.Est.28 Apr.2003	1.00	EA	335,457,280	30312870	365,770,160	365770159

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
01 Lands and Damages							
01.25	Real Estate			16,900,000	0	16,900,000	
01.30	Mitigation			950,000	0	950,000	
	TOTAL Lands and Damages	1.00	EA	17,850,000	0	17,850,000	17850000
02 Relocations							
02.11 Contract Area 2							
02.11.01 Roads, Construction Activities							
02.11.01.10	Bridge Relocations New Ch. 1000	6.00	EA	3,439,580	412,750	3,852,330	642055.31
02.11.01.15	Bridge Relocations New Ch. 2000	3.00	EA	1,198,200	143,780	1,341,990	447329.19
	TOTAL Roads, Construction Activities	1.00	EA	4,637,790	556,530	5,194,320	5194319
02.11.10 Cemetery, Utilities, & Structure							
02.11.10.20	Power Line Relocation New Ch1000	4.00	EA	86,930	10,430	97,360	24340.77
02.11.10.23	Power Line Reloc. New Chan.2000	3.00	EA	65,200	7,820	73,020	24340.77
02.11.10.35	Pipe Line Relocations Ch. 1000	6.00	EA	215,880	25,910	241,780	40297.49
02.11.10.36	Pipe Line Relocations Ch. 2000	1.00	EA	5,800	700	6,490	6490.87
02.11.10.40	Telephone Cable Rel. New Ch.1000	6.00	EA	163,720	19,650	183,370	30561.18
02.11.10.45	Telephone Cable Rel.New Ch.2000	2.00	EA	28,980	3,480	32,450	16227.18
02.11.10.50	TV Cable Relocation New Ch.1000	1.00	EA	2,900	350	3,250	3245.44
	TOTAL Cemetery, Utilities, & Structure	1.00	EA	569,400	68,330	637,730	637728.03
	TOTAL Contract Area 2	1.00	EA	5,207,190	624,860	5,832,050	5832047
02.13 Contract Area 4							
02.13.01 Roads, Construction Activities							
02.13.01.10	Bridge Relocations New Ch. 1400	2.00	EA	956,240	114,750	1,070,990	535496.84
02.13.01.12	Bridge Relocations New Ch.1410	1.00	EA	505,650	60,680	566,330	566328.48
	TOTAL Roads, Construction Activities	1.00	EA	1,461,890	175,430	1,637,320	1637322
02.13.10 Cemetery, Utilities, & Structure							
02.13.10.20	Power Line Relocation New Ch1400	2.00	EA	43,470	5,220	48,680	24340.77
02.13.10.25	Power Line RelocationNew Ch1410	2.00	EA	43,470	5,220	48,680	24340.77
02.13.10.35	Pipe Line RelocationsNew Ch1400	2.00	EA	189,800	22,780	212,580	106288.01

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02.13.10.37 Pipe Line RelocationsNew Ch1410			181,110	21,730	202,840	
02.13.10.40 Telephone Cable Rel.New Ch 1400	3.00 EA	123,150	14,780	137,930	45977.00	
02.13.10.43 Telephone Cable Rel.New Ch 1410	2.00 EA	28,980	3,480	32,450	16227.18	
TOTAL Cemetery, Utilities, & Structure		1.00 EA	609,970	73,200	683,160	683164.14
TOTAL Contract Area 4		1.00 EA	2,071,860	248,620	2,320,490	2320486
02.14 Contract Area 5						
02.14.01 Roads, Construction Activities						
02.14.01.10 Bridge Relocations New Ch 2100	4.00 EA	1,915,390	229,850	2,145,230	536308.21	
02.14.01.15 Bridge Relocations New Ch2140	3.00 EA	673,720	80,850	754,560	251521.25	
TOTAL Roads, Construction Activities		1.00 EA	2,589,100	310,690	2,899,800	2899797
02.14.10 Cemetery, Utilities, & Structure						
02.14.10.20 Power Line Relocation New Ch2100	2.00 EA	43,470	5,220	48,680	24340.77	
02.14.10.25 Power Line Relocation New Ch2140	2.00 EA	43,470	5,220	48,680	24340.77	
02.14.10.35 Pipe Line Relocations New Ch2100	4.00 EA	31,870	3,820	35,700	8924.95	
02.14.10.37 Pipe Line Relocations New Ch2140	2.00 EA	17,390	2,090	19,470	9736.31	
02.14.10.40 Telephone Cable Rel.New Ch 2100	3.00 EA	43,470	5,220	48,680	16227.18	
02.14.10.45 Telephone Cable Rel.New Ch 2140	2.00 EA	28,980	3,480	32,450	16227.18	
TOTAL Cemetery, Utilities, & Structure		1.00 EA	208,640	25,040	233,670	233671.35
TOTAL Contract Area 5		1.00 EA	2,797,740	335,730	3,133,470	3133468
02.15 Contract Area 6						
02.15.01 Roads, Construction Activities						
02.15.01.10 Bridge Relocations New Ch2520	2.00 EA	554,910	66,590	621,500	310750.44	
02.15.01.15 Bridge Relocations Exist Ch2530	2.00 EA	314,400	37,730	352,130	176064.87	
02.15.01.20 Bridge Relocations New Ch 2531	2.00 EA	354,970	42,600	397,570	198782.92	
TOTAL Roads, Construction Activities		1.00 EA	1,224,280	146,910	1,371,200	1371196
02.15.10 Cemetery, Utilities, & Structure						
02.15.10.20 Power Line Relocation New Ch2520	3.00 EA	65,200	7,820	73,020	24340.77	
02.15.10.23 Power Line Relocation New Ch2531	1.00 EA	21,730	2,610	24,340	24340.77	
02.15.10.25 Power Line Rel. Exist. Ch 2530	2.00 EA	43,470	5,220	48,680	24340.77	
02.15.10.37 Pipe Line Relocations New Ch2531	1.00 EA	8,690	1,040	9,740	9736.31	
02.15.10.40 Telephone Cable Rel. New Ch 2520	1.00 EA	14,490	1,740	16,230	16227.18	

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02.15.10.42	Telephone Cable Rel. New Ch 2531	1.00	EA	14,490	1,740	16,230	16227.18
02.15.10.43	Telephone Cable Rel.Exist Ch2530	1.00	EA	14,490	1,740	16,230	16227.18
TOTAL Cemetery, Utilities, & Structure		1.00	EA	182,560	21,910	204,460	204462.43
TOTAL Contract Area 6		1.00	EA	1,406,840	168,820	1,575,660	1575659
02.17 Contract Area 7B							
02.17.01 Roads, Construction Activities							
02.17.01.10	Bridge Relocations New Ch 2260	1.00	EA	246,310	29,560	275,860	275862.01
02.17.01.20	Bridge Relocations New Ch 2280	4.00	EA	931,610	111,790	1,043,410	260851.87
TOTAL Roads, Construction Activities		1.00	EA	1,177,920	141,350	1,319,270	1319269
02.17.10 Cemetery, Utilities, & Structure							
02.17.10.20	Power Line Relocation New Ch2260	1.00	EA	21,730	2,610	24,340	24340.77
02.17.10.23	Power Line Relocation New Ch2280	3.00	EA	65,200	7,820	73,020	24340.77
02.17.10.35	Pipe Line Relocations New Ch2260	2.00	EA	14,490	1,740	16,230	8113.59
02.17.10.37	Pipe Line Relocations New Ch2280	3.00	EA	20,280	2,430	22,720	7572.68
02.17.10.40	Telephone Cable Rel. New Ch 2260	1.00	EA	14,490	1,740	16,230	16227.18
02.17.10.43	Telephone Cable Rel. New Ch 2280	3.00	EA	43,470	5,220	48,680	16227.18
TOTAL Cemetery, Utilities, & Structure		1.00	EA	179,660	21,560	201,220	201217.00
TOTAL Contract Area 7B		1.00	EA	1,357,580	162,910	1,520,490	1520486
02.18 Contract Area 9							
02.18.01 Roads, Construction Activities							
02.18.01.10	Bridge Relocations New Ch 2500	5.00	EA	1,968,990	236,280	2,205,270	441054.67
02.18.01.15	Bridge Relocations New Ch 2510	2.00	EA	517,240	62,070	579,310	289655.11
TOTAL Roads, Construction Activities		1.00	EA	2,486,240	298,350	2,784,580	2784584
02.18.10 Cemetery, Utilities, & Structure							
02.18.10.20	Power Line Relocation New Ch2500	4.00	EA	86,930	10,430	97,360	24340.77
02.18.10.23	Power Line Relocation New Ch2510	2.00	EA	43,470	5,220	48,680	24340.77
02.18.10.35	Pipe Line Relocations New Ch2500	3.00	EA	20,280	2,430	22,720	7572.68
02.18.10.37	Pipe Line Relocations New Ch2510	2.00	EA	14,490	1,740	16,230	8113.59
02.18.10.40	Telephone Cable Rel. New Ch 2500	3.00	EA	43,470	5,220	48,680	16227.18
02.18.10.43	Telephone Cable Rel. New Ch2510	2.00	EA	28,980	3,480	32,450	16227.18

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EQUIP ID: NEWEQ9

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
TOTAL Cemetery, Utilities, & Structure	1.00	EA	237,610	28,510	266,130	266125.70
TOTAL Contract Area 9	1.00	EA	2,723,850	326,860	3,050,710	3050709
02.19 Contract Area 10						
02.19.01 Roads, Construction Activities						
02.19.01.10 Bridge Relocations New Ch 3000			5,174,430	620,930	5,795,360	
TOTAL Roads, Construction Activities	1.00	EA	5,174,430	620,930	5,795,360	5795360
02.19.10 Cemetery, Utilities, & Structure						
02.19.10.20 Power Line Relocation New Ch3000	7.00	EA	152,130	18,260	170,390	24340.77
02.19.10.35 Pipe Line Relocations New Ch3000	5.00	EA	37,670	4,520	42,190	8438.13
02.19.10.40 Telephone Cable Rel. New Ch 3000	5.00	EA	152,130	18,260	170,390	34077.07
TOTAL Cemetery, Utilities, & Structure	1.00	EA	341,930	41,030	382,960	382961.38
TOTAL Contract Area 10	1.00	EA	5,516,360	661,960	6,178,320	6178321
02.24 Contract Area 15						
02.24.01 Roads, Construction Activities						
02.24.01.10 Bridge Relocations New Ch 4000	2.00	EA	801,220	96,150	897,360	448681.45
02.24.01.15 Bridge Relocations New Ch. 4100	1.00	EA	240,510	28,860	269,370	269371.14
TOTAL Roads, Construction Activities	1.00	EA	1,041,730	125,010	1,166,730	1166734
02.24.10 Cemetery, Utilities, & Structure						
02.24.10.20 Power Line Relocat. New Ch.4000	2.00	EA	43,470	5,220	48,680	24340.77
02.24.10.23 Power Line Relocat. New Ch.4100	2.00	EA	43,470	5,220	48,680	24340.77
02.24.10.35 Pipe Line Relocat. New Ch. 4000	2.00	EA	14,490	1,740	16,230	8113.59
02.24.10.37 Pipe Line Relocat. New Ch. 4100	1.00	EA	5,800	700	6,490	6490.87
02.24.10.40 Telephone Cable Rel. New Ch.4000	2.00	EA	28,980	3,480	32,450	16227.18
02.24.10.43 Telephone Cable Rel.New Ch.4100	1.00	EA	14,490	1,740	16,230	16227.18
TOTAL Cemetery, Utilities, & Structure	1.00	EA	150,680	18,080	168,760	168762.64
TOTAL Contract Area 15	1.00	EA	1,192,410	143,090	1,335,500	1335497
02.26 Contract Area 17						

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
02.26.01 Roads, Construction Activities						
02.26.01.10	Bridge Relocations Exist.Ch.4110	4.00 EA	588,240	70,590	658,820	164705.85
02.26.01.15	Bridge Relocations New Ch. 4111	7.00 EA	1,879,170	225,500	2,104,660	300666.41
02.26.01.20	Bridge Relocations New Ch. 4112	5.00 EA	943,200	113,180	1,056,390	211277.85
TOTAL Roads, Construction Activities		1.00 EA	3,410,600	409,270	3,819,880	3819877
02.26.10 Cemetery, Utilities, & Structure						
02.26.10.20	Power Line Relocat.Exist.Ch.4110	4.00 EA	86,930	10,430	97,360	24340.77
02.26.10.22	Power Line Relocat.New Ch.4111	7.00 EA	152,130	18,260	170,390	24340.77
02.26.10.23	Power Line Relocat. New Ch. 4112	6.00 EA	130,400	15,650	146,040	24340.77
02.26.10.35	Pipe Line Relocat.Exist. Ch.4110	2.00 EA	14,490	1,740	16,230	8113.59
02.26.10.37	Pipe Line Relocat. New Ch. 4111	7.00 EA	417,270	50,070	467,340	66763.24
02.26.10.38	Pipe Line Relocat. New Ch.4112	6.00 EA	411,470	49,380	460,850	76808.64
02.26.10.40	Telephone Cable Rel.Exist.Ch4110	3.00 EA	43,470	5,220	48,680	16227.18
02.26.10.43	Telephone Cable Rel.New Ch.4111	6.00 EA	86,930	10,430	97,360	16227.18
02.26.10.44	Telephone Cable Rel.New Ch. 4112	4.00 EA	57,950	6,950	64,910	16227.18
TOTAL Cemetery, Utilities, & Structure		1.00 EA	1,401,040	168,130	1,569,170	1569168
TOTAL Contract Area 17		1.00 EA	4,811,650	577,400	5,389,050	5389046
TOTAL Relocations		1.00 EA	27,085,460	3,250,260	30,335,720	30335720
03 Reservoirs						
03.10 Reservoirs--R1000--CA1						
03.10.01	Mob, Demob & Preparatory Work		31,500	3,780	35,280	
03.10.02	Drainage	200.00 HR	1,280	150	1,440	7.19
03.10.03	Turfing Impoundment Levees	15.00 AC	14,510	1,740	16,250	1083.51
03.10.04 Embankment						
03.10.04.01	Load and haul 1st 1000'	253300.00 CY	269,180	32,300	301,480	1.19
03.10.04.02	Haul 2nd and 3rd 1000'	506600.00 UCY	202,580	24,310	226,890	0.45
TOTAL Embankment		253300.00 CY	471,760	56,610	528,380	2.09
03.10.48	Clearing and Debris Removal	28.00 AC	31,850	3,820	35,670	1273.95
03.10.60 Access Road and Parking						
03.10.60.01	Embankment	26289.00 CY	58,440	7,010	65,450	2.49
03.10.60.02	Gravel	2264.00 CY	54,690	6,560	61,250	27.06
TOTAL Access Road and Parking		1.00 EA	113,130	13,580	126,700	126702.22

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	QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
03.10.70 Clearing Borrow and Haul Road	18.00 AC	20,470	2,460	22,930	1273.95
03.10.80 Turfing Haul Roads	8.00 AC	7,740	930	8,670	1083.51
TOTAL Reservoirs--R1000--CA1	35.00 ACR	692,250	83,070	775,320	22151.88
03.30 Reservoirs--R2500/3000--CA8					
03.30.01 Clearing and Grubbing	23.00 ACR	26,160	3,140	29,300	1273.95
TOTAL Clearing and Grubbing	23.00 ACR	26,160	3,140	29,300	1273.95
03.30.02 Impondment Levee					
03.30.02.01 Load and Haul 1st 1000'	271650.00 CY	288,680	34,640	323,330	1.19
TOTAL Impondment Levee	271650.00 CY	288,680	34,640	323,330	1.19
03.30.03 Turfing Impoundment Levees	15.00 ACR	12,600	1,510	14,110	940.86
03.30.04 Care of Water	500.00 HR	3,210	390	3,600	7.19
03.30.05 Clearing Borrow and Haul Roads	14.00 AC	15,920	1,910	17,840	1273.95
03.30.06 Turfing Haul Roads	8.00 AC	7,740	930	8,670	1083.51
03.30.07 MOB and Demob		25,200	3,020	28,220	
TOTAL Reservoirs--R2500/3000--CA8	29.00 ACR	379,520	45,540	425,060	14657.28
03.40 Reservoirs--R4000--CA14					
03.40.01 Mob, Demob & Preparatory Work		31,500	3,780	35,280	
03.40.02 Drainage	600.00 HR	24,580	2,950	27,520	45.87
03.40.03 Embankment					
03.40.03.01 Excavate and Haul 1st 1000'	28354.00 CY	30,130	3,620	33,750	1.19
TOTAL Embankment	28354.00 CY	30,130	3,620	33,750	1.19
03.40.04 Turfing Impoundment Levees	5.00 AC	4,840	580	5,420	1083.51
03.40.05 Excavation of Excess Material					
03.40.05.01 Excavation and Haul 1st 1000'	206212.00 UCY	219,140	26,300	245,440	1.19
03.40.05.02 Exca and Haul 2nd and 3rd 1000'	412424.00 UCY	164,920	19,790	184,710	0.45
TOTAL Excavation of Excess Material	206212.00 CY	384,060	46,090	430,150	2.09
03.40.48 Clearing and Debris Removal	22.00 AC	25,020	3,000	28,030	1273.95

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TOTAL Reservoirs--R4000--CA14	27.00 ACR	500,130	60,020	560,140	20746.09
TOTAL Reservoirs	91.00 ACR	1,571,890	188,630	1,760,520	19346.39
09 Channels and Canals					
09.01 Canals Contract Area 1					
09.01.01 Mob, Demob & Preparatory Work		25,200	3,020	28,220	
TOTAL Mob, Demob & Preparatory Work		25,200	3,020	28,220	
09.01.10 Canal Excavation					
09.01.10.01 Canal Excavation ID-500	422200.00 CY	592,420	71,090	663,520	1.57
TOTAL Canal Excavation	422200.00 CY	592,420	71,090	663,520	1.57
09.01.15 Riprap and Filter					
09.01.15.01 Riprap R200	6500.00 TON	153,510	18,420	171,930	26.45
09.01.15.02 Filter Stone	1626.00 TON	31,790	3,810	35,600	21.90
TOTAL Riprap and Filter	8126.00 TON	185,300	22,240	207,530	25.54
09.01.30 Check Structures					
09.01.30.01 Check Structure C-1000R	1.00 EA	1,509,540	181,150	1,690,690	1690690
TOTAL Check Structures	1.00 EA	1,509,540	181,150	1,690,690	1690690
TOTAL Canals Contract Area 1	1.00 EA	2,312,470	277,500	2,589,960	2589962
09.02 Canals Contract Area 2					
09.02.01 Mob, Demob & Preparatory Work		62,990	7,560	70,550	
TOTAL Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.02.10 Canal Excavation					
09.02.10.01 Canal Excavation ID-1000	1791000 CY	2,872,530	344,700	3,217,230	1.80
09.02.10.03 Canal Excavation ID 2000	427000.00 CY	803,060	96,370	899,430	2.11
TOTAL Canal Excavation	2188000 CY	3,675,590	441,070	4,116,660	1.88

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

09.02.25 Pumps							
09.02.25.01	Pumps P1000.01 1HP			101,110	12,130	113,250	
09.02.25.02	Pumps P1000.02 0.75HP			101,110	12,130	113,250	
09.02.25.03	Pumps P1000.03 2HP			101,110	12,130	113,250	
09.02.25.05	Pumps P1000.04 2HP			101,110	12,130	113,250	
09.02.25.06	Pumps P2000.01 0.75HP			101,110	12,130	113,250	
09.02.25.11	Pumps P2000.02 (3HP)			101,110	12,130	113,250	
09.02.25.12	Pumps P2000.03 15HP			140,790	16,890	157,680	
09.02.25.20	Pumps P2300 15HP			140,790	16,890	157,680	
TOTAL Pumps				8.00 EA	888,270	106,590	994,860 124357.36

09.02.30 Check Structures							
09.02.30.01	Check Structure C-1000.1	1.00	EA	1,710,170	205,220	1,915,390	1915394
09.02.30.02	Check Structure C-1000.2	1.00	EA	1,436,290	172,350	1,608,640	1608640
09.02.30.03	Check Structure C-2000.1	1.00	EA	1,204,150	144,500	1,348,650	1348651
TOTAL Check Structures				3.00 EA	4,350,610	522,070	4,872,680 1624228

09.02.50 Inverted Siphons							
09.02.50.02	Siphon, 1000-02, 2 each, 96" Dia	269.00	LF	366,520	43,980	410,500	1526.03
09.02.50.03	Siphon, 1000-04, 1 each, 78" Dia	314.00	LF	146,310	17,560	163,870	521.89
09.02.50.05	Siphon, 1000-05, 2 each, 48" Dia	269.00	LF	109,070	13,090	122,150	454.10
09.02.50.06	Siphon, 1000-06, 2 each, 84" Dia	211.00	LF	238,260	28,590	266,860	1264.72
09.02.50.07	Siphon, 1000-07, 4 each, 90" Dia	200.00	LF	514,850	61,780	576,630	2883.15
09.02.50.08	Siphon, 1000-08, 6 each, 96" Dia	220.00	LF	940,100	112,810	1,052,910	4785.98
09.02.50.09	Siphon, 1000-09, 3 each, 66" Dia	200.00	LF	225,550	27,070	252,620	1263.09
09.02.50.10	Siphon, 1000-10, 2 each, 48" Dia	200.00	LF	86,670	10,400	97,070	485.36
09.02.50.11	Siphon, 1000-11, 8 each, 96" Dia	343.00	LF	1,745,360	209,440	1,954,800	5699.13
09.02.50.12	Siphon, 2000-01, 1 each, 78" Dia	205.00	LF	105,820	12,700	118,520	578.13
09.02.50.13	Siphon, 2000-02, 2 each, 54" Dia	205.00	LF	106,440	12,770	119,210	581.53
09.02.50.14	Siphon, 2000-03, 2 each, 42" Dia	240.00	LF	84,530	10,140	94,670	394.46
09.02.50.15	Siphon, 2000-04, 2 each, 42" Dia	205.00	LF	74,790	8,980	83,770	408.63
TOTAL Inverted Siphons				13.00 EA	4,744,270	569,310	5,313,590 408737.44

09.02.70 New Canal Landowner Takeoffs							
09.02.70.05	Excavation for Pipe	1751.23	CY	1,920	230	2,150	1.23
09.02.70.10	Place Pipe Bedding	47.50	CY	790	100	890	18.72
09.02.70.15	Install 24" Pipe	950.00	LF	102,960	12,360	115,320	121.39
09.02.70.20	24" Dresser Coupling @ Intake Str	19.00	EA	14,940	1,790	16,730	880.66
09.02.70.25	Intake Structure for 24" Pipe	19.00	EA	29,970	3,600	33,560	1766.43
09.02.70.30	24" Intake Bar Screen	7885.00	LBS	23,200	2,780	25,990	3.30
09.02.70.35	24" Gate Valve	19.00	EA	187,860	22,540	210,400	11073.58

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09.02.70.40 Valve box	19.00	EA	1,200	140	1,340	70.55
09.02.70.45 Excavate for pumpwell	1710.00	CY	2,090	250	2,340	1.37
09.02.70.50 Install 24" Pumpwell	19.00	EA	83,180	9,980	93,160	4903.35
09.02.70.55 24" Dresser Coupling @ Pumpwell	19.00	EA	14,940	1,790	16,730	880.66
09.02.70.60 Backfill and Compaction	3420.00	CY	7,400	890	8,280	2.42
09.02.70.70 Flow Meter, Purchase Cost	19.00	EA	18,030	2,160	20,190	1062.81
TOTAL New Canal Landowner Takeoffs	19.00	EA	488,470	58,620	547,090	28794.28
09.02.80 Pipeline Landowner Takeoffs						
09.02.80.05 Excavation for Pipe	36.00	CY	40	0	40	1.23
09.02.80.10 Place Pipe Bedding	1.11	CY	20	0	20	18.72
09.02.80.15 Install 12" DI Pipe	30.00	LF	920	110	1,030	34.49
09.02.80.20 12" Dresser Coupling @ Intake Str	3.00	EA	1,300	160	1,450	484.87
09.02.80.25 Intake Structure for 12" Pipe	3.00	EA	3,250	390	3,640	1212.86
09.02.80.30 12" Intake Bar Screen	807.00	LBS	2,370	280	2,660	3.30
09.02.80.35 12" Gate Valve	3.00	EA	6,070	730	6,800	2265.57
09.02.80.40 Valve box	3.00	EA	190	20	210	70.55
09.02.80.45 Excavate for pumpwell	270.00	CY	330	40	370	1.37
09.02.80.50 Install 24" Pumpwell	3.00	EA	13,130	1,580	14,710	4903.35
09.02.80.55 12" Dresser Coupling @ Pumpwell	3.00	EA	1,300	160	1,450	484.87
09.02.80.60 Backfill and Compaction	306.00	CY	660	80	740	2.42
09.02.80.70 Flow Meter, Purchase Cost	3.00	EA	2,850	340	3,190	1062.81
TOTAL Pipeline Landowner Takeoffs	3.00	EA	32,430	3,890	36,320	12107.99
TOTAL Canals Contract Area 2	1.00	EA	14,242,640	1,709,120	15,951,760	15951761
09.03 Canals Contract Area 3A						
09.03.01 Mob, Demob & Preparatory Work			62,990	7,560	70,550	
TOTAL Mob, Demob & Preparatory Work			62,990	7,560	70,550	
09.03.15 Existing Channel Improvements						
09.03.15.01 Channel Exc Indian Bayou ID 1500 213600.00 CY			650,230	78,030	728,260	3.41
TOTAL Existing Channel Improvements			650,230	78,030	728,260	
09.03.20 Pipe Lines						
09.03.20.01 Pipe Line 1500.01, (18" & 33" Dia)	20864.00	LF	1,260,530	151,260	1,411,800	67.67
09.03.20.02 Pipe Line 1500.011, (12" Dia)	3473.00	LF	21,830	2,620	24,450	7.04
09.03.20.03 Pipe Line 1500.012, (12" & 15" Dia)	7681.00	LF	69,670	8,360	78,030	10.16
09.03.20.04 Pipe Line 1500.0121, (12" Dia)	2659.00	LF	17,300	2,080	19,370	7.29

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09.03.20.05	Pipe Line 1500.013,	(12" Dia)	12231.00 LF	76,880	9,230	86,100	7.04
09.03.20.06	Pipe Line 1500.0131,	(12" Dia)	1785.00 LF	11,220	1,350	12,570	7.04
09.03.20.07	Pipe Line 1500.014,(12"&18" Dia)		14482.00 LF	146,890	17,630	164,520	11.36
09.03.20.08	Pipe Line 1500.0141,	(12" Dia)	6907.00 LF	42,640	5,120	47,760	6.91
09.03.20.09	Pipe Line 1500.0142,	(12" Dia)	1402.00 LF	8,660	1,040	9,690	6.91
09.03.20.10	Pipe Line 1500.0143,	(12" Dia)	238.00 LF	1,470	180	1,650	6.91
09.03.20.11	Pipe Line 1500.02,(30"&36" Dia)		14185.00 LF	1,115,380	133,850	1,249,220	88.07
09.03.20.12	Pipe Line 1500.021,	(33" Dia)	18874.00 LF	1,492,780	179,130	1,671,910	88.58
09.03.20.14	Pipe Line 1500.03,(18"&33" Dia)		29325.00 LF	2,022,210	242,670	2,264,880	77.23
09.03.20.15	Pipe Line 1500.031,	(12" Dia)	2912.00 LF	17,980	2,160	20,130	6.91
09.03.20.16	Pipe Line 1500.032,	(12" Dia)	6171.00 LF	38,100	4,570	42,670	6.91
09.03.20.17	Pipe Line 1500.033,	(12" Dia)	3987.00 LF	24,610	2,950	27,570	6.91
09.03.20.18	Pipe Line 1500.034,	(18" Dia)	1364.00 LF	18,760	2,250	21,010	15.40
09.03.20.19	Pipe Line 1500.04,	(12" Dia)	18262.00 LF	129,780	15,570	145,350	7.96
09.03.20.20	Pipe Line 1500.041,	(12" Dia)	2677.00 LF	16,530	1,980	18,510	6.91
09.03.20.21	Pipe Line 1500.05,	(36" Dia)	19463.00 LF	1,796,010	215,520	2,011,530	103.35
09.03.20.22	Pipe Line 1500.051,	(12" Dia)	13873.00 LF	91,650	11,000	102,650	7.40
09.03.20.26	Pipe Line 1500.0514,	(12" Dia)	5263.00 LF	38,500	4,620	43,120	8.19
09.03.20.27	Pipe Line 1500.052,	(12" Dia)	1369.00 LF	8,450	1,010	9,470	6.91
09.03.20.28	Pipe Line 1500.053,	(18" Dia)	8712.00 LF	128,370	15,400	143,770	16.50
09.03.20.29	Pipe Line 1500.054,(24"&30" Dia)		13305.00 LF	630,220	75,630	705,840	53.05
09.03.20.30	Pipe Line 1500.0541,	(12" Dia)	6645.00 LF	41,020	4,920	45,940	6.91
09.03.20.31	Pipe Line 1500.05411,	(12" Dia)	4318.00 LF	26,660	3,200	29,860	6.91
09.03.20.32	Pipe Line 1500.05412,	(12" Dia)	6039.00 LF	48,640	5,840	54,480	9.02
09.03.20.33	Pipe Line 1500.054121,	(12" Dia)	1351.00 LF	14,020	1,680	15,700	11.62
09.03.20.34	Pipe Line 1500.06,(15"&18" Dia)		10451.00 LF	126,320	15,160	141,480	13.54
09.03.20.35	Pipe Line 1500.061,	(12" Dia)	2641.00 LF	16,300	1,960	18,260	6.91
09.03.20.36	Pipe Line 1500.07,	(12" Dia)	142.00 LF	880	110	980	6.91
09.03.20.37	Pipe Line 1500.08,	(15" Dia)	13704.00 LF	146,750	17,610	164,360	11.99
09.03.20.38	Pipe Line 1500.081,	(15" Dia)	1337.00 LF	12,950	1,550	14,500	10.85
09.03.20.39	Pipe Line 1500.09,	(12" Dia)	2764.00 LF	17,060	2,050	19,110	6.91
09.03.20.40	Pipe Line 1500.1,	(21" Dia)	11640.00 LF	224,970	27,000	251,970	21.65
09.03.20.41	Pipe Line 1500.101,	(12" Dia)	2659.00 LF	16,420	1,970	18,380	6.91
09.03.20.42	Pipe Line 1500.102,	(15" Dia)	12728.00 LF	130,850	15,700	146,550	11.51
09.03.20.43	Pipe Line 1500.1021,	(12" Dia)	4312.00 LF	26,620	3,190	29,810	6.91
09.03.20.44	Pipe Line 1500.11,(12"&18" Dia)		13628.00 LF	154,460	18,540	173,000	12.69
09.03.20.45	Pipe Line 1500.111,	(12" Dia)	6910.00 LF	48,410	5,810	54,220	7.85
09.03.20.46	Pipe Line 1500.12,(12"&24" Dia)		3773.00 LF	54,600	6,550	61,150	16.21
09.03.20.47	Pipe Line 1500.121,	(24" Dia)	15113.00 LF	365,830	43,900	409,730	27.11
09.03.20.48	Pipe Line 1500.1211,	(18" Dia)	2617.00 LF	43,270	5,190	48,460	18.52
09.03.20.49	Pipe Line 1500.13,(12"&27" Dia)		8665.00 LF	195,150	23,420	218,570	25.22
09.03.20.50	Pipe Line 1500.131,(15"&18" Dia)		7239.00 LF	86,950	10,430	97,390	13.45
09.03.20.51	Pipe Line 1500.14,	(12" Dia)	753.00 LF	4,650	560	5,210	6.91
09.03.20.52	Pipe Line 1500.15,	(12" Dia)	1925.00 LF	17,560	2,110	19,670	10.22
09.03.20.54	Pipe Line 1500.17,(12"&18" Dia)		8407.00 LF	83,330	10,000	93,330	11.10
09.03.20.55	Pipe Line 1500.171,	(15" Dia)	9394.00 LF	98,560	11,830	110,390	11.75
09.03.20.56	Pipe Line 1500.1711,	(12" Dia)	1941.00 LF	11,980	1,440	13,420	6.91
09.03.20.57	Pipe Line 1500.18,	(12" Dia)	279.00 LF	1,720	210	1,930	6.91
09.03.20.58	Pipe Line 1500.19,	(12" Dia)	1726.00 LF	10,660	1,280	11,930	6.91
09.03.20.59	Pipe Line 1500.20,	(12" Dia)	75.00 LF	460	60	520	6.91
09.03.20.60	Pipe Line 1500.21,	(12" Dia)	1478.00 LF	9,120	1,090	10,220	6.91

BOR ID: BMLABR

EQUIP ID: NEWEQ9

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CREW ID: BMCROWA

UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Level 4 (Rounded to 10's) **

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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.03.20.61	Pipe Line 1500.22,	(12" Dia)	10159.00 LF	68,470	8,220	76,690	7.55	
09.03.20.62	Pipe Line 1500.221,	(12" Dia)	1226.00 LF	13,320	1,600	14,920	12.17	
09.03.20.63	Pipe Line 1500.222,	(12" Dia)	1440.00 LF	8,890	1,070	9,960	6.91	
09.03.20.64	Pipe Line 1500.23, (15"&18" Dia)		10213.00 LF	115,590	13,870	129,460	12.68	
09.03.20.65	Pipe Line 1500.231,	(12" Dia)	2652.00 LF	22,130	2,660	24,780	9.34	
09.03.20.66	Pipe Line 1510.01,	(12" Dia)	1473.00 LF	9,090	1,090	10,180	6.91	
09.03.20.67	Pipe Line 1520.01,	(15" Dia)	4065.00 LF	45,810	5,500	51,310	12.62	
09.03.20.68	Pipe Line 1520.011,	(12" Dia)	4141.00 LF	25,560	3,070	28,630	6.91	
09.03.20.69	Pipe Line 1520.02,	(12" Dia)	2594.00 LF	16,010	1,920	17,940	6.91	
09.03.20.70	Pipe Line 1530.01,	(12" Dia)	2807.00 LF	17,330	2,080	19,410	6.91	
09.03.20.71	Pipe Line 1530.02,	(12" Dia)	9032.00 LF	61,440	7,370	68,810	7.62	
09.03.20.72	Pipe Line 1530.03,	(18" Dia)	14649.00 LF	213,500	25,620	239,120	16.32	
09.03.20.73	Pipe Line 1530.04,	(12" Dia)	1035.00 LF	12,150	1,460	13,600	13.14	
09.03.20.74	Pipe Line 1530.05,	(18" Dia)	12111.00 LF	175,110	21,010	196,120	16.19	
09.03.20.75	Pipe Line 1530.051,	(12" Dia)	1664.00 LF	10,270	1,230	11,510	6.91	
09.03.20.76	Pipe Line 1530.06,	(24" Dia)	11616.00 LF	276,460	33,170	309,630	26.66	
09.03.20.77	Pipe Line 1530.07, (12"&15" Dia)		8041.00 LF	68,320	8,200	76,520	9.52	
09.03.20.78	Pipe Line 1530.071,	(12" Dia)	1464.00 LF	9,040	1,080	10,120	6.91	
09.03.20.79	Pipe Line 1530.072,	(12" Dia)	5378.00 LF	38,960	4,670	43,630	8.11	
09.03.20.80	Pipe Line 1530.0721,	(12" Dia)	735.00 LF	4,540	540	5,080	6.91	
09.03.20.81	Pipe Line 1530.073,	(12" Dia)	2708.00 LF	16,720	2,010	18,720	6.91	
09.03.20.82	Pipe Line 1530.08, (12"&18" Dia)		9446.00 LF	132,450	15,890	148,340	15.70	
09.03.20.83	Pipe Line 1530.081,	(12" Dia)	5879.00 LF	42,050	5,050	47,090	8.01	
09.03.20.84	Pipe Line 1530.0811,	(12" Dia)	5414.00 LF	33,420	4,010	37,430	6.91	
09.03.20.86	Pipe Line 1530.09,	(12" Dia)	2574.00 LF	15,890	1,910	17,800	6.91	
09.03.20.87	Pipe Line 1530.10,	(18" Dia)	1221.00 LF	16,790	2,010	18,810	15.40	
09.03.20.88	Pipe Line 1531.01,	(12" Dia)	3835.00 LF	23,670	2,840	26,520	6.91	
09.03.20.90	Pipe Line C1530/1531,	(36" Dia)	31805.00 LF	2,771,340	332,560	3,103,910	97.59	
09.03.20.93	Pipe Line 1000.02,	(12" Dia)	488.00 LF	3,070	370	3,440	7.04	
TOTAL Pipe Lines			565495.00 LF	15,529,970	1,863,600	17,393,570	30.76	
09.03.25 Pumps								
09.03.25.01	Pumps P1500.01	110HP		243,490	29,220	272,700		
09.03.25.07	Pumps P1500.014	15		140,790	16,890	157,680		
09.03.25.11	Pumps P1500.02	70HP		225,650	27,080	252,730		
09.03.25.14	Pumps P1500.03	50		209,300	25,120	234,420		
09.03.25.19	Pumps P1500.04	5HP		116,970	14,040	131,000		
09.03.25.21	Pumps P1500.05	70		225,650	27,080	252,730		
09.03.25.34	Pumps P1500.06	15		140,790	16,890	157,680		
09.03.25.36	Pumps P1500.07	0.75		101,110	12,130	113,250		
09.03.25.37	Pumps P1500.08	5		101,110	12,130	113,250		
09.03.25.39	Pumps P1500.09	0.75		101,110	12,130	113,250		
09.03.25.40	Pumps P1500.10	25		148,360	17,800	166,170		
09.03.25.44	Pumps P1500.11	15		140,790	16,890	157,680		
09.03.25.46	Pumps P1500.12	20		140,790	16,890	157,680		
09.03.25.49	Pumps P1500.13	25		148,360	17,800	166,170		
09.03.25.50	Pumps P1500.131	10		129,700	15,560	145,270		
09.03.25.51	Pumps P1500.14	0.75		101,110	12,130	113,250		

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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 PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.03.25.52	Pumps	P1500.15	2		101,110	12,130	113,250	
09.03.25.54	Pumps	P1500.17	20		140,790	16,890	157,680	
09.03.25.57	Pumps	P1500.18	0.75		101,110	12,130	113,250	
09.03.25.58	Pumps	P1500.19	0.75		101,110	12,130	113,250	
09.03.25.59	Pumps	P1500.20	5		116,970	14,040	131,000	
09.03.25.60	Pumps	P1500.21	2		101,110	12,130	113,250	
09.03.25.61	Pumps	P1500.22	15		140,790	16,890	157,680	
09.03.25.64	Pumps	P1500.23	15		140,790	16,890	157,680	
09.03.25.66	Pumps	P1510.01	0.75		101,110	12,130	113,250	
09.03.25.67	Pumps	P1520.01	12		140,790	16,890	157,680	
09.03.25.68	Pumps	P1520.02	0.75		101,110	12,130	113,250	
09.03.25.69	Pumps	P1530.01	0.75		101,110	12,130	113,250	
09.03.25.71	Pumps	P1530.02	2.5		101,110	12,130	113,250	
09.03.25.72	Pumps	P1530.03	15		140,790	16,890	157,680	
09.03.25.73	Pumps	P1530.04	1		101,110	12,130	113,250	
09.03.25.74	Pumps	P1530.05	15		140,790	16,890	157,680	
09.03.25.76	Pumps	P1530.06	20		140,790	16,890	157,680	
09.03.25.77	Pumps	P1530.07	15		140,790	16,890	157,680	
09.03.25.78	Pumps	P1530	30		148,360	17,800	166,170	
09.03.25.82	Pumps	P1530.08	15		140,790	16,890	157,680	
09.03.25.86	Pumps	P1530.09	1		101,110	12,130	113,250	
09.03.25.87	Pumps	P1530.10	10		129,700	15,560	145,270	
09.03.25.88	Pumps	P1531.01	1		101,110	12,130	113,250	
TOTAL Pumps				39.00 EA	5,189,500	622,740	5,812,240	149031.72
09.03.40 Weirs								
09.03.40.01	Weir,	1500.01		1.00 EA	15,750	1,890	17,640	17642.03
09.03.40.02	Weir,	1500.02		1.00 EA	21,520	2,580	24,100	24098.25
09.03.40.03	Weir,	1500.03		1.00 EA	20,410	2,450	22,850	22854.36
09.03.40.04	Weir,	1500.04		1.00 EA	28,470	3,420	31,880	31881.51
09.03.40.05	Weir,	1530.01		1.00 EA	11,090	1,330	12,420	12424.61
TOTAL Weirs				5.00 EA	97,230	11,670	108,900	21780.15
09.03.50 Inverted Siphons								
09.03.50.01	Siphon,	1530-01,	3 each, 36" Dia	188.00 LF	77,150	9,260	86,410	459.61
TOTAL Inverted Siphons				1.00 EA	77,150	9,260	86,410	86405.98
09.03.60 Gatewell Turnout Structures								
09.03.60.10	T-1500,	Can/Can 54" Db1	Gatewell	1.00 EA	229,150	27,500	256,650	256649.61
TOTAL Gatewell Turnout Structures				1.00 EA	229,150	27,500	256,650	256649.61

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.03.75 Extg Canal Landowner Takeoff(3A)						
09.03.75.05	Excavation for Pipe	925.00 CY	1,020	120	1,140	1.23
09.03.75.10	Place Pipe Bedding	25.00 CY	420	50	470	18.72
09.03.75.15	Install 24" Pipe	500.00 LF	54,190	6,500	60,690	121.39
09.03.75.20	24" Dresser Coupling @ Intake Str	25.00 EA	19,660	2,360	22,020	880.66
09.03.75.25	Intake Structure for 24" Pipe	25.00 EA	39,430	4,730	44,160	1766.43
09.03.75.30	24" Intake Bar Screen	10375.00 LBS	30,530	3,660	34,190	3.30
09.03.75.35	24" Gate Valve	25.00 EA	247,180	29,660	276,840	11073.58
09.03.75.40	Valve box	25.00 EA	1,570	190	1,760	70.55
09.03.75.45	Excavate for pumpwell	2250.00 CY	2,740	330	3,070	1.37
09.03.75.50	Install 24" Pumpwell	25.00 EA	109,450	13,130	122,580	4903.35
09.03.75.55	24" Dresser Coupling @ Pumpwell	25.00 EA	19,660	2,360	22,020	880.66
09.03.75.60	Backfill and Compaction	1800.00 CY	3,890	470	4,360	2.42
09.03.75.70	Flow Meter, Purchase Cost	25.00 EA	23,720	2,850	26,570	1062.81
TOTAL Extg Canal Landowner Takeoff(3A)		25.00 EA	553,460	66,420	619,880	24795.07
09.03.80 Pipeline Landowner Takeoffs (3A)						
09.03.80.05	Excavation for Pipe	1248.00 CY	1,370	160	1,530	1.23
09.03.80.10	Place Pipe Bedding	38.48 CY	640	80	720	18.72
09.03.80.15	Install 12" DI Pipe	1040.00 LF	32,030	3,840	35,870	34.49
09.03.80.20	12" Dresser Coupling @ Intake Str	104.00 EA	45,020	5,400	50,430	484.87
09.03.80.25	Intake Structure for 12" Pipe	104.00 EA	112,620	13,510	126,140	1212.86
09.03.80.30	12" Intake Bar Screen	27976.00 LBS	82,320	9,880	92,200	3.30
09.03.80.35	12" Gate Valve	104.00 EA	210,370	25,240	235,620	2265.57
09.03.80.40	Valve box	104.00 EA	6,550	790	7,340	70.55
09.03.80.45	Excavate for pumpwell	9360.00 CY	11,420	1,370	12,790	1.37
09.03.80.50	Install 24" Pumpwell	104.00 EA	455,310	54,640	509,950	4903.35
09.03.80.55	12" Dresser Coupling @ Pumpwell	104.00 EA	45,020	5,400	50,430	484.87
09.03.80.60	Backfill and Compaction	10608.00 CY	22,940	2,750	25,700	2.42
09.03.80.70	Flow Meter, Purchase Cost	104.00 EA	98,690	11,840	110,530	1062.81
TOTAL Pipeline Landowner Takeoffs (3A)		104.00 EA	1,124,310	134,920	1,259,230	12107.99
09.03.85 24" CMP Drop Structures (3A)						
09.03.85.05	Excavate Trench	370.37 CY	550	70	620	1.67
09.03.85.10	Hand Trim Bottom of Trench	2000.00 SF	530	60	600	0.30
09.03.85.15	Install 24" CMP	10.00 EA	15,160	1,820	16,980	1697.64
09.03.85.20	Backfill & Compact 1/2 Pipe Dia	74.07 CY	200	20	220	3.03
09.03.85.25	Backfill & Compact to Grade	296.30 CY	180	20	200	0.67
TOTAL 24" CMP Drop Structures (3A)		10.00 EA	16,620	1,990	18,620	1861.59
TOTAL Canals Contract Area 3A		1.00 EA	23,530,630	2,823,680	26,354,300	26354302

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

09.04 Canals Contract Area 3B						
09.04.10 Canal Excavation						
09.04.10.05	Cast Canal Excavation ID-1530	381200.00 CY	263,420	31,610	295,030	0.77
09.04.10.06	Canal Excavation ID-1531	26550.00 CY	30,670	3,680	34,350	1.29
TOTAL Canal Excavation		641700.00 CY	294,090	35,290	329,380	0.51

09.04.70 New Canal Landowner Takeoffs(3B)						
09.04.70.05	Excavation for Pipe	368.68 CY	400	50	450	1.23
09.04.70.10	Place Pipe Bedding	10.00 CY	170	20	190	18.72
09.04.70.15	Install 24" Pipe	200.00 LF	21,680	2,600	24,280	121.39
09.04.70.20	24" Dresser Coupling @ Intake Str	4.00 EA	3,150	380	3,520	880.67
09.04.70.25	Intake Structure for 24" Pipe	4.00 EA	6,310	760	7,070	1766.43
09.04.70.30	24" Intake Bar Screen	1660.00 LBS	4,880	590	5,470	3.30
09.04.70.35	24" Gate Valve	4.00 EA	39,550	4,750	44,290	11073.58
09.04.70.40	Valve box	4.00 EA	250	30	280	70.55
09.04.70.45	Excavate for pumpwell	360.00 CY	440	50	490	1.37
09.04.70.50	Install 24" Pumpwell	4.00 EA	17,510	2,100	19,610	4903.35
09.04.70.55	24" Dresser Coupling @ Pumpwell	4.00 EA	3,150	380	3,520	880.67
09.04.70.60	Backfill and Compaction	720.00 CY	1,560	190	1,740	2.42
09.04.70.70	Flow Meter, Purchase Cost	4.00 EA	3,800	460	4,250	1062.81
TOTAL New Canal Landowner Takeoffs(3B)		4.00 EA	102,840	12,340	115,180	28794.28

09.04.76 Extg Canal Landowner Takeoff(3B)						
09.04.76.05	Excavation for Pipe	814.00 CY	890	110	1,000	1.23
09.04.76.10	Place Pipe Bedding	22.00 CY	370	40	410	18.72
09.04.76.15	Install 24" Pipe	440.00 LF	47,690	5,720	53,410	121.39
09.04.76.20	24" Dresser Coupling @ Intake Str	22.00 EA	17,300	2,080	19,370	880.66
09.04.76.25	Intake Structure for 24" Pipe	22.00 EA	34,700	4,160	38,860	1766.43
09.04.76.30	24" Intake Bar Screen	9130.00 LBS	26,860	3,220	30,090	3.30
09.04.76.35	24" Gate Valve	22.00 EA	217,520	26,100	243,620	11073.58
09.04.76.40	Valve box	22.00 EA	1,390	170	1,550	70.55
09.04.76.45	Excavate for pumpwell	1980.00 CY	2,420	290	2,710	1.37
09.04.76.50	Install 24" Pumpwell	22.00 EA	96,320	11,560	107,870	4903.35
09.04.76.55	24" Dresser Coupling @ Pumpwell	22.00 EA	17,300	2,080	19,370	880.66
09.04.76.60	Backfill and Compaction	1584.00 CY	3,430	410	3,840	2.42
09.04.76.70	Flow Meter, Purchase Cost	22.00 EA	20,880	2,510	23,380	1062.81
TOTAL Extg Canal Landowner Takeoff(3B)		22.00 EA	487,050	58,450	545,490	24795.07

09.04.81 Pipeline Landowner Takeoffs (3B)						
09.04.81.05	Excavation for Pipe	984.00 CY	1,080	130	1,210	1.23

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09.04.81.10	Place Pipe Bedding	30.34 CY	510	60	570	18.72
09.04.81.15	Install 12" DI Pipe	820.00 LF	25,250	3,030	28,280	34.49
09.04.81.20	12" Dresser Coupling @ Intake Str	82.00 EA	35,500	4,260	39,760	484.87
09.04.81.25	Intake Structure for 12" Pipe	82.00 EA	88,800	10,660	99,450	1212.86
09.04.81.30	12" Intake Bar Screen	22058.00 LBS	64,900	7,790	72,690	3.30
09.04.81.35	12" Gate Valve	82.00 EA	165,870	19,900	185,780	2265.57
09.04.81.40	Valve box	82.00 EA	5,170	620	5,790	70.55
09.04.81.45	Excavate for pumpwell	7380.00 CY	9,000	1,080	10,080	1.37
09.04.81.50	Install 24" Pumpwell	82.00 EA	359,000	43,080	402,070	4903.35
09.04.81.55	12" Dresser Coupling @ Pumpwell	82.00 EA	35,500	4,260	39,760	484.87
09.04.81.60	Backfill and Compaction	8364.00 CY	18,090	2,170	20,260	2.42
09.04.81.70	Flow Meter, Purchase Cost	82.00 EA	77,810	9,340	87,150	1062.81
TOTAL Pipeline Landowner Takeoffs (3B)		82.00 EA	886,480	106,380	992,860	12107.99
09.04.86 24" CMP Drop Structures (3B)						
09.04.86.05	Excavate Trench	333.33 CY	500	60	560	1.67
09.04.86.10	Hand Trim Bottom of Trench	1800.00 SF	480	60	540	0.30
09.04.86.15	Install 24" CMP	9.00 EA	13,640	1,640	15,280	1697.64
09.04.86.20	Backfill & Compact 1/2 Pipe Dia	66.67 CY	180	20	200	3.03
09.04.86.25	Backfill & Compact to Grade	266.67 CY	160	20	180	0.67
TOTAL 24" CMP Drop Structures (3B)		9.00 EA	14,960	1,800	16,750	1861.59
TOTAL Canals Contract Area 3B		1.00 EA	1,785,410	214,250	1,999,660	1999658
09.05 Canals Contract Area 4						
09.05.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
TOTAL Mob, Demob & Preparatory Work			62,990	7,560	70,550	
09.05.10 Canal Excavation						
09.05.10.08	Canal Excavation ID-1400	334600.00 CY	306,600	36,790	343,390	1.03
09.05.10.10	Canal Excavation ID-1410	307100.00 CY	226,490	27,180	253,670	0.83
TOTAL Canal Excavation		1643100 CY	533,090	63,970	597,060	0.36
09.05.20 Pipe Lines						
09.05.20.01	Pipe Line 1400.01, (21" & 24" Dia)	7632.00 LF	169,910	20,390	190,300	24.93
09.05.20.02	Pipe Line 1400.011, (12" Dia)	3208.00 LF	19,800	2,380	22,180	6.91
09.05.20.03	Pipe Line 1400.02, (12", 18" & 27"D)	15158.00 LF	341,610	40,990	382,600	25.24
09.05.20.04	Pipe Line 1400.021, (12" Dia)	2717.00 LF	16,770	2,010	18,790	6.91
09.05.20.05	Pipe Line 1400.022, (12" & 21" Dia)	11440.00 LF	103,920	12,470	116,390	10.17

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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on 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.05.20.06 Pipe Line 1400.0221, (12" Dia)				2634.00 LF	16,260	1,950	18,210	6.91
09.05.20.07 Pipe Line 1400.0222, (18" Dia)				2717.00 LF	37,360	4,480	41,850	15.40
09.05.20.08 Pipe Line 1400.023, (12" Dia)				1454.00 LF	8,980	1,080	10,050	6.91
09.05.20.09 Pipe Line 1400.03, (12" Dia)				5750.00 LF	41,250	4,950	46,200	8.04
09.05.20.10 Pipe Line 1400.031, (12" Dia)				1427.00 LF	8,810	1,060	9,870	6.91
09.05.20.11 Pipe Line 1400.04, (18"&36" Dia)				7651.00 LF	595,370	71,440	666,810	87.15
09.05.20.12 Pipe Line 1400.041, (12" Dia)				352.00 LF	2,170	260	2,430	6.91
09.05.20.13 Pipe Line 1400.042, (12" Dia)				856.00 LF	5,280	630	5,920	6.91
09.05.20.14 Pipe Line 1400.043, (21" Dia)				2154.00 LF	48,060	5,770	53,830	24.99
09.05.20.15 Pipe Line 1400.044, (18" Dia)				4299.00 LF	59,120	7,090	66,210	15.40
09.05.20.16 Pipe Line 1410.01, (15" Dia)				2691.00 LF	26,060	3,130	29,190	10.85
09.05.20.17 Pipe Line 1410.02, (21" Dia)				8057.00 LF	157,250	18,870	176,120	21.86
09.05.20.18 Pipe Line 1410.03, (12" Dia)				5518.00 LF	39,820	4,780	44,600	8.08
09.05.20.19 Pipe Line 1000.01, (12" Dia)				1817.00 LF	11,420	1,370	12,790	7.04
09.05.20.20 Pipe Line 1000.03, (12" Dia)				3283.00 LF	20,630	2,480	23,110	7.04
09.05.20.21 Pipe Line 1000.031, (12" Dia)				4047.00 LF	25,440	3,050	28,490	7.04
09.05.20.22 Pipe Line 1000.04, (12" Dia)				4320.00 LF	27,150	3,260	30,410	7.04
09.05.20.24 Pipe Line 2000.02, (12" Dia)				2918.00 LF	18,340	2,200	20,540	7.04
09.05.20.26 Pipe Line 2000.03, (24" Dia)				12415.00 LF	288,580	34,630	323,210	26.03
TOTAL Pipe Lines				85715.00 LF	2,089,380	250,730	2,340,100	27.30
09.05.25 Pumps								
09.05.25.01 Pumps P1400.01 20					140,790	16,890	157,680	
09.05.25.03 Pumps P1400.02 55					209,800	25,180	234,970	
09.05.25.09 Pumps P1400.03 5					116,970	14,040	131,000	
09.05.25.11 Pumps P1400.04 30					148,360	17,800	166,170	
09.05.25.16 Pumps P1410.01 5					116,970	14,040	131,000	
09.05.25.17 Pumps P1410.02 15					140,790	16,890	157,680	
09.05.25.18 Pumps P1410.03 0.75					101,110	12,130	113,250	
TOTAL Pumps				7.00 EA	974,790	116,970	1,091,760	155966.16
09.05.50 Inverted Siphons								
09.05.50.01 Siphon, 1400-01, 2 each, 72" Dia				188.00 LF	171,680	20,600	192,280	1022.75
09.05.50.02 Siphon, 1400-02, 2 each, 72" Dia				188.00 LF	171,680	20,600	192,280	1022.75
09.05.50.03 Siphon, 1400-03, 2 each, 48" Dia				188.00 LF	82,780	9,930	92,710	493.14
09.05.50.04 Siphon, 1400-04, 3 each, 54" Dia				330.00 LF	228,110	27,370	255,480	774.19
09.05.50.05 Siphon, 1400-05, 3 each, 72" Dia				222.00 LF	287,610	34,510	322,120	1451.01
09.05.50.06 Siphon, 1410-01, 1 each, 78" Dia				202.00 LF	104,700	12,560	117,270	580.54
09.05.50.07 Siphon, 1410-02, 2 each, 78" Dia				174.00 LF	184,820	22,180	207,000	1189.65
TOTAL Inverted Siphons				7.00 EA	1,231,370	147,760	1,379,140	197019.82
09.05.60 Gatewe11 Turnout Structures								

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09.05.60.10	T-1400, Can/Can 60" Db1 Gatewell	1.00 EA	250,670	30,080	280,750	280754.08
09.05.60.20	T-1410, Can/Can 48" Db1 Gatewell	1.00 EA	194,050	23,290	217,330	217334.99
TOTAL Gatewell Turnout Structures		2.00 EA	444,720	53,370	498,090	249044.53
09.05.70 New Canal Landowner Takeoffs						
09.05.70.05	Excavation for Pipe	1013.87 CY	1,110	130	1,250	1.23
09.05.70.10	Place Pipe Bedding	27.50 CY	460	60	510	18.72
09.05.70.15	Install 24" Pipe	550.00 LF	59,610	7,150	66,760	121.39
09.05.70.20	24" Dresser Coupling @ Intake Str	11.00 EA	8,650	1,040	9,690	880.66
09.05.70.25	Intake Structure for 24" Pipe	11.00 EA	17,350	2,080	19,430	1766.43
09.05.70.30	24" Intake Bar Screen	4565.00 LBS	13,430	1,610	15,040	3.30
09.05.70.35	24" Gate Valve	11.00 EA	108,760	13,050	121,810	11073.58
09.05.70.40	Valve box	11.00 EA	690	80	780	70.55
09.05.70.45	Excavate for pumpwell	990.00 CY	1,210	140	1,350	1.37
09.05.70.50	Install 24" Pumpwell	11.00 EA	48,160	5,780	53,940	4903.35
09.05.70.55	24" Dresser Coupling @ Pumpwell	11.00 EA	8,650	1,040	9,690	880.66
09.05.70.60	Backfill and Compaction	1980.00 CY	4,280	510	4,800	2.42
09.05.70.70	Flow Meter, Purchase Cost	11.00 EA	10,440	1,250	11,690	1062.81
TOTAL New Canal Landowner Takeoffs		11.00 EA	282,800	33,940	316,740	28794.28
09.05.75 Existing Canal Landowner Takeoff						
09.05.75.05	Excavation for Pipe	555.00 CY	610	70	680	1.23
09.05.75.10	Place Pipe Bedding	15.00 CY	250	30	280	18.72
09.05.75.15	Install 24" Pipe	300.00 LF	32,520	3,900	36,420	121.39
09.05.75.20	24" Dresser Coupling @ Intake Str	15.00 EA	11,790	1,420	13,210	880.66
09.05.75.25	Intake Structure for 24" Pipe	15.00 EA	23,660	2,840	26,500	1766.43
09.05.75.30	24" Intake Bar Screen	6225.00 LBS	18,320	2,200	20,510	3.30
09.05.75.35	24" Gate Valve	15.00 EA	148,310	17,800	166,100	11073.58
09.05.75.40	Valve box	15.00 EA	940	110	1,060	70.55
09.05.75.45	Excavate for pumpwell	1350.00 CY	1,650	200	1,840	1.37
09.05.75.50	Install 24" Pumpwell	15.00 EA	65,670	7,880	73,550	4903.35
09.05.75.55	24" Dresser Coupling @ Pumpwell	15.00 EA	11,790	1,420	13,210	880.66
09.05.75.60	Backfill and Compaction	1080.00 CY	2,340	280	2,620	2.42
09.05.75.70	Flow Meter, Purchase Cost	15.00 EA	14,230	1,710	15,940	1062.81
TOTAL Existing Canal Landowner Takeoff		15.00 EA	332,080	39,850	371,930	24795.07
09.05.80 Pipeline Landowner Takeoffs						
09.05.80.05	Excavation for Pipe	468.00 CY	510	60	580	1.23
09.05.80.10	Place Pipe Bedding	14.43 CY	240	30	270	18.72
09.05.80.15	Install 12" DI Pipe	390.00 LF	12,010	1,440	13,450	34.49
09.05.80.20	12" Dresser Coupling @ Intake Str	39.00 EA	16,880	2,030	18,910	484.87
09.05.80.25	Intake Structure for 12" Pipe	39.00 EA	42,230	5,070	47,300	1212.86

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09.05.80.30	12" Intake Bar Screen	10491.00 LBS	30,870	3,700	34,570	3.30
09.05.80.35	12" Gate Valve	39.00 EA	78,890	9,470	88,360	2265.57
09.05.80.40	Valve box	39.00 EA	2,460	290	2,750	70.55
09.05.80.45	Excavate for pumpwell	3510.00 CY	4,280	510	4,800	1.37
09.05.80.50	Install 24" Pumpwell	39.00 EA	170,740	20,490	191,230	4903.35
09.05.80.55	12" Dresser Coupling @ Pumpwell	39.00 EA	16,880	2,030	18,910	484.87
09.05.80.60	Backfill and Compaction	3978.00 CY	8,600	1,030	9,640	2.42
09.05.80.70	Flow Meter, Purchase Cost	39.00 EA	37,010	4,440	41,450	1062.81
	TOTAL Pipeline Landowner Takeoffs	39.00 EA	421,620	50,590	472,210	12107.99
09.05.85	24" CMP Drop Structures					
09.05.85.05	Excavate Trench	111.11 CY	170	20	190	1.67
09.05.85.10	Hand Trim Bottom of Trench	600.00 SF	160	20	180	0.30
09.05.85.15	Install 24" CMP	3.00 EA	4,550	550	5,090	1697.64
09.05.85.20	Backfill & Compact 1/2 Pipe Dia	22.22 CY	60	10	70	3.03
09.05.85.25	Backfill & Compact to Grade	88.89 CY	50	10	60	0.67
	TOTAL 24" CMP Drop Structures	3.00 EA	4,990	600	5,580	1861.59
	TOTAL Canals Contract Area 4	1.00 EA	6,377,830	765,340	7,143,170	7143169
09.06	Canals Contract Area 5					
09.06.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550	
	TOTAL Mob, Demob & Preparatory Work		62,990	7,560	70,550	
09.06.10	Canal Excavation					
09.06.10.12	Canal Excavation ID-2100	584600.00 CY	468,140	56,180	524,320	0.90
09.06.10.14	Canal Excavation ID-2140	659500.00 CY	685,700	82,280	767,990	1.16
09.06.10.16	Canal Excavation ID-2160	277200.00 CY	1,152,090	138,250	1,290,340	4.65
	TOTAL Canal Excavation	443600.00 CY	2,305,930	276,710	2,582,650	5.82
09.06.15	Existing Channel Improvements					
09.06.15.10	Channel Exc Caney Creek ID 2120	145067.00 CY	367,530	44,100	411,640	2.84
	TOTAL Existing Channel Improvements		367,530	44,100	411,640	
09.06.20	Pipe Lines					
09.06.20.02	Pipe Line 2100.02, (12" Dia)	11032.00 LF	68,100	8,170	76,280	6.91

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09.06.20.07	Pipe Line 2100.06, (12"&18" Dia)	12284.00 LF	92,920	11,150	104,060	8.47
09.06.20.08	Pipe Line 2100.061,(12"&18" Dia)	11755.00 LF	156,010	18,720	174,730	14.86
09.06.20.09	Pipe Line 2100.0611, (15" Dia)	16378.00 LF	166,200	19,940	186,140	11.37
09.06.20.10	Pipe Line 2100.07, (15" Dia)	2788.00 LF	27,000	3,240	30,240	10.85
09.06.20.11	Pipe Line 2100.08, (12" Dia)	2749.00 LF	16,970	2,040	19,010	6.91
09.06.20.13	Pipe Line 2100.09, (15" Dia)	9261.00 LF	96,140	11,540	107,670	11.63
09.06.20.15	Pipe Line 2100.1, (12" Dia)	3561.00 LF	27,660	3,320	30,980	8.70
09.06.20.16	Pipe Line 2100.101, (12" Dia)	2723.00 LF	16,810	2,020	18,830	6.91
09.06.20.17	Pipe Line 2100.11, (15"&18" Dia)	11461.00 LF	148,720	17,850	166,560	14.53
09.06.20.18	Pipe Line 2100.111, (12" Dia)	470.00 LF	2,900	350	3,250	6.91
09.06.20.19	Pipe Line 2100.112, (12" Dia)	1405.00 LF	8,670	1,040	9,710	6.91
09.06.20.20	Pipe Line 2100.113,(12"&15" Dia)	6459.00 LF	61,910	7,430	69,340	10.74
09.06.20.22	Pipe Line 2100.1132, (12" Dia)	3959.00 LF	35,800	4,300	40,100	10.13
09.06.20.23	Pipe Line 2120.01, (12" Dia)	4028.00 LF	30,550	3,670	34,210	8.49
09.06.20.24	Pipe Line 2120.02, (24"&30" Dia)	24695.00 LF	1,118,690	134,240	1,252,940	50.74
09.06.20.25	Pipe Line 2120.021, (12" Dia)	2806.00 LF	17,320	2,080	19,400	6.91
09.06.20.26	Pipe Line 2120.022, (12" Dia)	13984.00 LF	92,010	11,040	103,050	7.37
09.06.20.27	Pipe Line 2120.0221, (12" Dia)	1364.00 LF	14,100	1,690	15,790	11.58
09.06.20.28	Pipe Line 2120.023, (12" Dia)	2392.00 LF	20,450	2,450	22,900	9.57
09.06.20.29	Pipe Line 2120.03, (15"&24" Dia)	5289.00 LF	112,380	13,490	125,860	23.80
09.06.20.30	Pipe Line 2120.031, (21" Dia)	2744.00 LF	50,750	6,090	56,840	20.72
09.06.20.31	Pipe Line 2120.0311(12"&15" Dia)	4098.00 LF	34,590	4,150	38,740	9.45
09.06.20.32	Pipe Line 2120.04(24"27"&30" Dia)	21157.00 LF	1,039,420	124,730	1,164,150	55.02
09.06.20.33	Pipe Line 2120.041, (12" Dia)	11695.00 LF	83,560	10,030	93,580	8.00
09.06.20.34	Pipe Line 2120.0411, (12" Dia)	2726.00 LF	16,830	2,020	18,850	6.91
09.06.20.35	Pipe Line 2120.0412, (12" Dia)	2377.00 LF	20,350	2,440	22,800	9.59
09.06.20.36	Pipe Line 2120.0413, (12" Dia)	2695.00 LF	16,640	2,000	18,630	6.91
09.06.20.37	Pipe Line 2120.042, (12" Dia)	3952.00 LF	30,150	3,620	33,770	8.55
09.06.20.38	Pipe Line 2120.05(18"24"&27" Dia)	18834.00 LF	434,960	52,190	487,150	25.87
09.06.20.39	Pipe Line 2120.051, (12" Dia)	2793.00 LF	22,920	2,750	25,670	9.19
09.06.20.40	Pipe Line 2120.052, (12" Dia)	680.00 LF	4,200	500	4,700	6.91
09.06.20.41	Pipe Line 2120.06, (12" Dia)	780.00 LF	4,820	580	5,390	6.91
09.06.20.42	Pipe Line 2120.07, (18"&24" Dia)	7429.00 LF	162,510	19,500	182,010	24.50
09.06.20.43	Pipe Line 2120.071, (21" Dia)	9434.00 LF	182,720	21,930	204,640	21.69
09.06.20.44	Pipe Line 2140.01, (12" Dia)	11111.00 LF	74,270	8,910	83,190	7.49
09.06.20.45	Pipe Line 2140.011, (12" Dia)	1345.00 LF	13,980	1,680	15,660	11.64
09.06.20.46	Pipe Line 2140.012, (12" Dia)	9254.00 LF	74,170	8,900	83,070	8.98
09.06.20.47	Pipe Line 2140.0121, (12" Dia)	2328.00 LF	14,370	1,720	16,100	6.91
09.06.20.48	Pipe Line 2140.013, (12" Dia)	1316.00 LF	13,800	1,660	15,460	11.75
09.06.20.49	Pipe Line 2140.02, (12" Dia)	9339.00 LF	69,010	8,280	77,290	8.28
09.06.20.50	Pipe Line 2140.021, (12" Dia)	954.00 LF	11,570	1,390	12,960	13.58
09.06.20.51	Pipe Line 2140.022, (12" Dia)	1244.00 LF	7,680	920	8,600	6.91
09.06.20.52	Pipe Line 2140.03, (18"&36" Dia)	18936.00 LF	1,568,390	188,210	1,756,600	92.77
09.06.20.53	Pipe Line 2140.031, (12" Dia)	2744.00 LF	22,620	2,710	25,330	9.23
09.06.20.54	Pipe Line 2140.032, (18" Dia)	6974.00 LF	103,180	12,380	115,560	16.57
09.06.20.55	Pipe Line 2140.033, (18" Dia)	8626.00 LF	125,900	15,110	141,010	16.35
09.06.20.56	Pipe Line 2140.0331, (12" Dia)	3484.00 LF	27,190	3,260	30,450	8.74
09.06.20.57	Pipe Line 2140.034, (12" Dia)	2614.00 LF	16,140	1,940	18,070	6.91
09.06.20.58	Pipe Line 2140.035, (36" Dia)	5908.00 LF	531,850	63,820	595,670	100.82
09.06.20.59	PipeLine 2140.0351(18"21"36" Dia)	8139.00 LF	501,370	60,160	561,540	68.99
09.06.20.60	Pipe Line 2140.03511, (24" Dia)	5582.00 LF	138,970	16,680	155,650	27.88

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Level 4 (Rounded to 10's) **

TIME 10:28:43

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.06.20.61	Pipe Line 2140.035111, (12" Dia)	1293.00	LF	13,740	1,650	15,390	11.90
09.06.20.62	Pipe Line 2140.04, (12"&21" Dia)	17571.00	LF	286,070	34,330	320,390	18.23
09.06.20.63	Pipe Line 2140.041, (12" Dia)	1275.00	LF	7,870	940	8,820	6.91
09.06.20.64	Pipe Line 2140.042, (12"&15" Dia)	9698.00	LF	84,420	10,130	94,550	9.75
09.06.20.65	Pipe Line 2140.0421, (12" Dia)	5237.00	LF	38,010	4,560	42,570	8.13
09.06.20.66	Pipe Line 2140.043, (12" Dia)	2781.00	LF	17,170	2,060	19,230	6.91
09.06.20.67	Pipe Line 2140.05, (12"&15" Dia)	10579.00	LF	84,050	10,090	94,140	8.90
09.06.20.68	Pipe Line 2140.051, (12" Dia)	3984.00	LF	24,590	2,950	27,550	6.91
09.06.20.69	Pipe Line 2140.06, (27" Dia)	6492.00	LF	193,600	23,230	216,830	33.40
09.06.20.70	Pipe Line 2140.07, (15" Dia)	4697.00	LF	45,490	5,460	50,950	10.85
09.06.20.71	Pipe Line 2140.08, (12" Dia)	15940.00	LF	104,080	12,490	116,570	7.31
09.06.20.72	Pipe Line 2140.081, (12" Dia)	2701.00	LF	16,670	2,000	18,680	6.91
09.06.20.74	Pipe Line 2140.09, (27" Dia)	15800.00	LF	507,240	60,870	568,110	35.96
09.06.20.75	Pipe Line 2140.091, (12" Dia)	15128.00	LF	93,390	11,210	104,600	6.91
09.06.20.76	Pipe Line 2140.092, (15" Dia)	6651.00	LF	70,860	8,500	79,360	11.93
09.06.20.77	Pipe Line 2140.E, (21"&24" Dia)	10260.00	LF	199,750	23,970	223,710	21.80
09.06.20.78	Pipe Line 2140.093, (12" Dia)	6684.00	LF	46,940	5,630	52,580	7.87
09.06.20.79	Pipe Line 2300.00 (27" Dia)	15000.00	LF	524,460	62,930	587,390	39.16
09.06.20.80	Pipe Line 2140.094(12"15"&18"Di)	10810.00	LF	95,860	11,500	107,360	9.93
09.06.20.81	Pipe Line 2140.0941 (15" Dia)	6146.00	LF	65,970	7,920	73,880	12.02
09.06.20.82	Pipe Line 2140.09411, (12" Dia)	986.00	LF	6,090	730	6,820	6.91
09.06.20.83	Pipe Line 2140.10, (21"&24" Dia)	12505.00	LF	244,300	29,320	273,620	21.88
09.06.20.84	Pipe Line 2140.101, (12" Dia)	1246.00	LF	7,690	920	8,620	6.91
09.06.20.85	Pipe Line 2140.102, (12" Dia)	2658.00	LF	16,410	1,970	18,380	6.91
09.06.20.86	Pipe Line 2140.11, (12" Dia)	6583.00	LF	40,640	4,880	45,520	6.91
09.06.20.87	Pipe Line 2140.12, (12" Dia)	2717.00	LF	22,530	2,700	25,230	9.29
09.06.20.88	Pipe Line 2140.13, (18" Dia)	5400.00	LF	82,820	9,940	92,760	17.18
09.06.20.89	Pipe Line 2160.01, (12" Dia)	6766.00	LF	53,200	6,380	59,590	8.81
09.06.20.90	Pipe Line 2160.011, (12" Dia)	6500.00	LF	45,880	5,510	51,390	7.91
09.06.20.91	Pipe Line 2160.0111, (12" Dia)	500.00	LF	3,090	370	3,460	6.91
09.06.20.92	Pipe Line 2160.012, (12" Dia)	2256.00	LF	25,610	3,070	28,680	12.71
09.06.20.93	Pipe Line 2160.02, (12" Dia)	2101.00	LF	13,300	1,600	14,900	7.09
09.06.20.94	Pipe Line 2160.03, (18" Dia)	13335.00	LF	184,040	22,080	206,120	15.46
09.06.20.95	Pipe Line 2160.031, (12" Dia)	6832.00	LF	53,540	6,420	59,960	8.78
09.06.20.96	Pipe Line 2160.032, (12" Dia)	5258.00	LF	32,460	3,900	36,350	6.91
09.06.20.97	Pipe Line 2160.033, (12" Dia)	2770.00	LF	22,780	2,730	25,510	9.21
09.06.20.98	Pipe Line 2160.0331, (12" Dia)	12645.00	LF	78,060	9,370	87,430	6.91
09.06.20.99	Pipe Line 2300.01, (27" Dia)	27540.00	LF	898,410	107,810	1,006,220	36.54
09.06.20.9A	Pipe Line 2000.01, (12" Dia)	5518.00	LF	34,680	4,160	38,840	7.04
09.06.20.9B	Pipe Line 2000.011, (12" Dia)	6773.00	LF	42,570	5,110	47,680	7.04
TOTAL Pipe Lines		601920.00	LF	12,178,530	1,461,420	13,639,950	22.66

09.06.25 Pumps

09.06.25.02	Pumps	P2100.02	5	116,970	14,040	131,000
09.06.25.07	Pumps	P2100.06	35	196,360	23,560	219,920
09.06.25.10	Pumps	P2100.07	7.5	116,970	14,040	131,000
09.06.25.11	Pumps	P2100.08	2	101,110	12,130	113,250
09.06.25.13	Pumps	P2100.09	7.5	116,970	14,040	131,000

BOR ID: BMLABR

EQUIP ID: NEWEQ9

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UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
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Bayou Meto Feasibility Estimate APRIL 28,2003
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					QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.06.25.15	Pumps	P2100.10	5				101,110	12,130	113,250	
09.06.25.17	Pumps	P2100.11	30				148,360	17,800	166,170	
09.06.25.23	Pumps	P2120.01	2.5				101,110	12,130	113,250	
09.06.25.24	Pumps	P2120.02	50				209,800	25,180	234,970	
09.06.25.29	Pumps	P2120.03	15				140,790	16,890	157,680	
09.06.25.32	Pumps	P2120.04	60				211,970	25,440	237,400	
09.06.25.38	Pumps	P2120.05	55				209,800	25,180	234,970	
09.06.25.41	Pumps	P2120.06	1				101,110	12,130	113,250	
09.06.25.42	Pumps	P2120.07	20				140,790	16,890	157,680	
09.06.25.43	Pumps	P2140E	10				131,950	15,830	147,790	
09.06.25.44	Pumps	P2140.01	15				140,790	16,890	157,680	
09.06.25.49	Pumps	P2140.02	5				116,970	14,040	131,000	
09.06.25.52	Pumps	P2140.03	60				210,220	25,230	235,440	
09.06.25.62	Pumps	P2140.04	20				140,790	16,890	157,680	
09.06.25.67	Pumps	P2140.05	5				116,970	14,040	131,000	
09.06.25.69	Pumps	P2140.06	5				101,110	12,130	113,250	
09.06.25.70	Pumps	P2140.07	2.5				105,480	12,660	118,140	
09.06.25.71	Pumps	P2140.08	7				116,970	14,040	131,000	
09.06.25.74	Pumps	P2140.09	30				148,360	17,800	166,170	
09.06.25.83	Pumps	P2140.10	10				129,700	15,560	145,270	
09.06.25.86	Pumps	P2140.11	2.5				101,110	12,130	113,250	
09.06.25.87	Pumps	P2140.12	0.75				101,110	12,130	113,250	
09.06.25.88	Pumps	P2140.13	0.75				101,110	12,130	113,250	
09.06.25.89	Pumps	P2160.01	10				129,700	15,560	145,270	
09.06.25.93	Pumps	P2160.02	0.75				101,110	12,130	113,250	
09.06.25.94	Pumps	P2160.03	35				196,360	23,560	219,920	
TOTAL Pumps					31.00	EA	4,203,050	504,370	4,707,420	151852.25
09.06.30 Check Structures										
09.06.30.01	Check Structure	C-2110			1.00	EA	1,018,210	122,190	1,140,400	1140399
09.06.30.03	Check Structure	C-2000.1			1.00	EA	1,167,930	140,150	1,308,080	1308083
TOTAL Check Structures					2.00	EA	2,186,140	262,340	2,448,480	1224241
09.06.40 Weirs										
09.06.40.01	Weir,	2100.02			1.00	EA	21,740	2,610	24,350	24348.88
09.06.40.02	Weir,	2100.03			1.00	EA	23,730	2,850	26,580	26580.59
09.06.40.03	Weir,	2120.01			1.00	EA	21,900	2,630	24,520	24522.96
09.06.40.04	Weir,	2120.02			1.00	EA	15,480	1,860	17,340	17341.46
09.06.40.05	Weir,	2120.03			1.00	EA	24,870	2,980	27,850	27851.45
09.06.40.06	Weir,	2120.04			1.00	EA	21,940	2,630	24,570	24570.47
09.06.40.07	Weir,	2120.05			1.00	EA	24,310	2,920	27,230	27232.68
09.06.40.08	Weir,	2140.01			1.00	EA	15,380	1,850	17,230	17227.53
09.06.40.09	Weir,	2160.01			1.00	EA	7,310	880	8,180	8182.78
TOTAL Weirs					9.00	EA	176,660	21,200	197,860	21984.31

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09.06.50 Inverted Siphons							
09.06.50.02	Siphon, 2100-01, 1 each, 60" Dia	188.00	LF	61,680	7,400	69,080	367.45
09.06.50.03	Siphon, 2100-02, 3 each, 36" Dia	204.00	LF	82,000	9,840	91,840	450.21
09.06.50.04	Siphon, 2100-03, 1 each, 60" Dia	253.00	LF	77,130	9,260	86,380	341.43
09.06.50.05	Siphon, 2100-04, 1 each, 36" Dia	204.00	LF	30,270	3,630	33,900	166.19
09.06.50.06	Siphon, 2100-05, 1 each, 78" Dia	204.00	LF	105,450	12,650	118,100	578.92
09.06.50.07	Siphon, 2110-01, 2 each, 30" Dia	172.00	LF	35,330	4,240	39,570	230.07
09.06.50.10	Siphon, 2140-01, 2 each, 90" Dia	110.00	LF	177,620	21,310	198,930	1808.46
09.06.50.11	Siphon, 2140-02, 2 each, 78" Dia	159.00	LF	174,000	20,880	194,880	1225.67
09.06.50.12	Siphon, 2140-03, 2 each, 60" Dia	110.00	LF	84,100	10,090	94,190	856.26
09.06.50.13	Siphon, 2140-04, 2 each, 54" Dia	205.00	LF	106,440	12,770	119,210	581.53
09.06.50.14	Siphon, 2140-05, 2 each, 54" Dia	205.00	LF	106,440	12,770	119,210	581.53
09.06.50.15	Siphon, 2140-06, 2 each, 66" Dia	205.00	LF	154,590	18,550	173,140	844.59
09.06.50.16	Siphon, 2140-07, 2 each, 78" Dia	173.00	LF	184,100	22,090	206,190	1191.86
09.06.50.17	Siphon, 2140-08, 3 each, 54" Dia	173.00	LF	139,350	16,720	156,070	902.15
09.06.50.18	Siphon, 2160-01, 1 each, 24" Dia	224.00	LF	17,550	2,110	19,650	87.73
TOTAL Inverted Siphons		15.00	EA	1,536,040	184,320	1,720,360	114690.65
09.06.70 New Canal Landowner Takeoffs							
09.06.70.05	Excavation for Pipe	2488.59	CY	2,730	330	3,060	1.23
09.06.70.10	Place Pipe Bedding	67.50	CY	1,130	140	1,260	18.72
09.06.70.15	Install 24" Pipe	1350.00	LF	146,320	17,560	163,880	121.39
09.06.70.20	24" Dresser Coupling @ Intake Str	27.00	EA	21,230	2,550	23,780	880.66
09.06.70.25	Intake Structure for 24" Pipe	27.00	EA	42,580	5,110	47,690	1766.43
09.06.70.30	24" Intake Bar Screen	11205.00	LBS	32,970	3,960	36,930	3.30
09.06.70.35	24" Gate Valve	27.00	EA	266,950	32,030	298,990	11073.58
09.06.70.40	Valve box	27.00	EA	1,700	200	1,900	70.55
09.06.70.45	Excavate for pumpwell	2430.00	CY	2,960	360	3,320	1.37
09.06.70.50	Install 24" Pumpwell	27.00	EA	118,210	14,180	132,390	4903.35
09.06.70.55	24" Dresser Coupling @ Pumpwell	27.00	EA	21,230	2,550	23,780	880.66
09.06.70.60	Backfill and Compaction	4860.00	CY	10,510	1,260	11,770	2.42
09.06.70.70	Flow Meter, Purchase Cost	27.00	EA	25,620	3,070	28,700	1062.81
TOTAL New Canal Landowner Takeoffs		27.00	EA	694,150	83,300	777,450	28794.28
09.06.75 Existing Canal Landowner Takeoff							
09.06.75.05	Excavation for Pipe	1406.00	CY	1,540	190	1,730	1.23
09.06.75.10	Place Pipe Bedding	38.00	CY	630	80	710	18.72
09.06.75.15	Install 24" Pipe	760.00	LF	82,370	9,880	92,260	121.39
09.06.75.20	24" Dresser Coupling @ Intake Str	38.00	EA	29,880	3,590	33,470	880.66
09.06.75.25	Intake Structure for 24" Pipe	38.00	EA	59,930	7,190	67,120	1766.43
09.06.75.30	24" Intake Bar Screen	15770.00	LBS	46,400	5,570	51,970	3.30
09.06.75.35	24" Gate Valve	38.00	EA	375,710	45,090	420,800	11073.58
09.06.75.40	Valve box	38.00	EA	2,390	290	2,680	70.55
09.06.75.45	Excavate for pumpwell	3420.00	CY	4,170	500	4,670	1.37

FOR ID: BMLABR EQUIP ID: NEWEQ9

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09.06.75.50	Install 24" Pumpwell	38.00 EA	166,360	19,960	186,330 4903.35
09.06.75.55	24" Dresser Coupling @ Pumpwell	38.00 EA	29,880	3,590	33,470 880.66
09.06.75.60	Backfill and Compaction	2736.00 CY	5,920	710	6,630 2.42
09.06.75.70	Flow Meter, Purchase Cost	38.00 EA	36,060	4,330	40,390 1062.81
TOTAL Existing Canal Landowner Takeoff		38.00 EA	841,260	100,950	942,210 24795.07
09.06.80 Pipeline Landowner Takeoffs					
09.06.80.05	Excavation for Pipe	2856.00 CY	3,140	380	3,510 1.23
09.06.80.10	Place Pipe Bedding	88.06 CY	1,470	180	1,650 18.72
09.06.80.15	Install 12" DI Pipe	2380.00 LF	73,290	8,790	82,080 34.49
09.06.80.20	12" Dresser Coupling @ Intake Str	238.00 EA	103,030	12,360	115,400 484.87
09.06.80.25	Intake Structure for 12" Pipe	238.00 EA	257,730	30,930	288,660 1212.86
09.06.80.30	12" Intake Bar Screen	64022.00 LBS	188,380	22,610	210,990 3.30
09.06.80.35	12" Gate Valve	238.00 EA	481,430	57,770	539,210 2265.57
09.06.80.40	Valve box	238.00 EA	14,990	1,800	16,790 70.55
09.06.80.45	Excavate for pumpwell	21420.00 CY	26,130	3,140	29,270 1.37
09.06.80.50	Install 24" Pumpwell	238.00 EA	1,041,960	125,040	1,167,000 4903.35
09.06.80.55	12" Dresser Coupling @ Pumpwell	238.00 EA	103,030	12,360	115,400 484.87
09.06.80.60	Backfill and Compaction	24276.00 CY	52,500	6,300	58,800 2.42
09.06.80.70	Flow Meter, Purchase Cost	238.00 EA	225,850	27,100	252,950 1062.81
TOTAL Pipeline Landowner Takeoffs		238.00 EA	2,572,950	308,750	2,881,700 12107.99
09.06.85 24" CMP Drop Structures					
09.06.85.05	Excavate Trench	1000.00 CY	1,490	180	1,670 1.67
09.06.85.10	Hand Trim Bottom of Trench	5400.00 SF	1,440	170	1,610 0.30
09.06.85.15	Install 24" CMP	27.00 EA	40,930	4,910	45,840 1697.64
09.06.85.20	Backfill & Compact 1/2 Pipe Dia	200.00 CY	540	60	610 3.03
09.06.85.25	Backfill & Compact to Grade	800.00 CY	480	60	540 0.67
TOTAL 24" CMP Drop Structures		27.00 EA	44,880	5,390	50,260 1861.59
TOTAL Canals Contract Area 5		1.00 EA	27,170,110	3,260,410	30,430,530 30430527
09.07 Canals Contract Area 6					
09.07.01	Mob, Demob & Preparatory Work		62,990	7,560	70,550
TOTAL Mob, Demob & Preparatory Work			62,990	7,560	70,550
09.07.10 Canal Excavation					
09.07.10.21	Canal Excavation ID-2520	89700.00 CY	99,310	11,920	111,220 1.24
09.07.10.24	Canal Excavation ID-2531	105700.00 LF	162,770	19,530	182,300 1.72

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09.07.10.27	Canal Excavation ID-2533	28300.00 CY	93,550	11,230	104,770	3.70
TOTAL Canal Excavation		868600.00 CY	355,620	42,670	398,300	0.46
09.07.18 Existing Channel Improvements						
09.07.18.02	Channel Exc Skinner Branc ID2530	127586.00 CY	314,810	37,780	352,580	2.76
09.07.18.03	Channel Exc Blue Pt Ditch ID2532	208818.00 CY	403,400	48,410	451,810	2.16
09.07.18.04	Fish Trap Slough ID 2521		115,240	13,830	129,070	
09.07.18.05	Turfing Disturbed Areas ID2521	38.00 AC	36,760	4,410	41,170	1083.51
TOTAL Existing Channel Improvements			870,200	104,420	974,630	
09.07.20 Pipe Lines						
09.07.20.01	Pipe Line C2520, (36" Dia)	12905.00 LF	1,122,270	134,670	1,256,950	97.40
09.07.20.03	Pipe Line 2500.01, (12" & 18" Dia)	22257.00 LF	322,740	38,730	361,470	16.24
09.07.20.04	Pipe Line 2500.011, (12" Dia)	1119.00 LF	6,910	830	7,740	6.91
09.07.20.07	Pipe Line 2500.03, (12" Dia)	5460.00 LF	33,710	4,040	37,750	6.91
09.07.20.20	Pipe Line 2521.01, (12" Dia)	5444.00 LF	39,290	4,710	44,000	8.08
09.07.20.21	Pipe Line 2521.011, (12" Dia)	2597.00 LF	21,710	2,610	24,320	9.36
09.07.20.22	Pipe Line 2521.02, (12" Dia)	5299.00 LF	38,390	4,610	43,000	8.11
09.07.20.23	Pipe Line 2530.01, (36" Dia)	30967.00 LF	2,801,350	336,160	3,137,510	101.32
09.07.20.24	Pipe Line 2530.011, (12" Dia)	2987.00 LF	18,440	2,210	20,650	6.91
09.07.20.25	Pipe Line 2530.012, (12" Dia)	2726.00 LF	22,580	2,710	25,290	9.28
09.07.20.26	Pipe Line 2530.02, (12" Dia)	968.00 LF	5,980	720	6,690	6.91
09.07.20.27	Pipe Line 2530.03, (15" Dia)	4931.00 LF	54,200	6,500	60,710	12.31
09.07.20.28	Pipe Line 2530.04, (12" Dia)	773.00 LF	4,770	570	5,340	6.91
09.07.20.29	Pipe Line 2530.05, (12" Dia)	6614.00 LF	40,830	4,900	45,730	6.91
09.07.20.30	Pipe Line 2530.06, (12" Dia)	2836.00 LF	17,510	2,100	19,610	6.91
09.07.20.31	Pipe Line 2530.07, (30" Dia)	17890.00 LF	1,130,640	135,680	1,266,320	70.78
09.07.20.32	Pipe Line 2530.071, (12" Dia)	2797.00 LF	17,270	2,070	19,340	6.91
09.07.20.33	Pipe Line 2531.01, (27" Dia)	12235.00 LF	386,350	46,360	432,720	35.37
09.07.20.34	Pipe Line 2532.01, (12" Dia)	876.00 LF	5,410	650	6,060	6.91
09.07.20.35	Pipe Line 2532.02, (12" Dia)	2730.00 LF	22,530	2,700	25,240	9.24
09.07.20.36	Pipe Line 2532.03, (12" & 15" Dia)	6535.00 LF	56,160	6,740	62,900	9.63
09.07.20.37	Pipe Line 2532.031, (12" & 15" Dia)	10104.00 LF	114,490	13,740	128,220	12.69
09.07.20.38	Pipe Line 2532.0311, (12" Dia)	1398.00 LF	8,630	1,040	9,670	6.91
09.07.20.40	Pipe Line 2532.0313, (12" Dia)	1346.00 LF	13,990	1,680	15,670	11.64
09.07.20.41	Pipe Line 2532.04, (12" Dia)	1920.00 LF	17,530	2,100	19,640	10.23
09.07.20.42	Pipe Line 2532.05, (12" Dia)	1261.00 LF	13,460	1,620	15,080	11.96
09.07.20.44	Pipe Line 2533.01, (24" Dia)	5397.00 LF	133,150	15,980	149,130	27.63
09.07.20.45	Pipe Line 2533.02, (30" Dia)	2678.00 LF	168,150	20,180	188,330	70.33
09.07.20.46	Pipe Line 2533.021, (18" & 21" Dia)	13247.00 LF	215,410	25,850	241,260	18.21
09.07.20.47	Pipe Line 2533.0211, (12" Dia)	1236.00 LF	13,310	1,600	14,910	12.06
09.07.20.48	Pipe Line 2533.03, (12" & 18" Dia)	6699.00 LF	86,090	10,330	96,420	14.39
09.07.20.49	Pipe Line 2533.031, (12" Dia)	1288.00 LF	13,630	1,640	15,270	11.85
09.07.20.51	Pipe Line 2535.01, (15" Dia)	2740.00 LF	26,540	3,180	29,720	10.85
09.07.20.52	Pipe Line 2535.02, (12" Dia)	2712.00 LF	16,740	2,010	18,750	6.91

BOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT OWNER SUMMARY - Level 4 (Rounded to 10's) **

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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.07.20.53	Pipe Line 2535.03,(12"30"36"Dia)	17385.00	LF	969,840	116,380	1,086,220	62.48	
09.07.20.54	Pipe Line 2535.031, (12" Dia)	3238.00	LF	25,740	3,090	28,830	8.90	
09.07.20.55	Pipe Line 2535.032,(15"&21" Dia)	6846.00	LF	94,520	11,340	105,860	15.46	
09.07.20.56	Pipe Line 2535.0321, (12" Dia)	7244.00	LF	50,400	6,050	56,450	7.79	
09.07.20.57	Pipe Line 2535.033,(18"&21" Dia)	10216.00	LF	172,410	20,690	193,100	18.90	
09.07.20.58	Pipe Line 2535.0331, (12" Dia)	3232.00	LF	25,630	3,080	28,710	8.88	
09.07.20.59	Pipe Line 2535.0332, (12" Dia)	3971.00	LF	30,190	3,620	33,820	8.52	
09.07.20.60	Pipe Line C2533, (36" Dia)	16582.00	LF	1,424,170	170,900	1,595,070	96.19	
09.07.20.61	Pipe Line C2535, (36" Dia)	15076.00	LF	1,297,840	155,740	1,453,590	96.42	
TOTAL Pipe Lines				286722.00 LF	11,100,930	1,332,110	12,433,040	43.36
09.07.25 Pumps								
09.07.25.01	Pumps P2300.01 15			140,790	16,890	157,680		
09.07.25.03	Pumps P2500.01 7.5			101,110	12,130	113,250		
09.07.25.08	Pumps P2511.01 20			140,790	16,890	157,680		
09.07.25.08	Pumps P2500.03 0.75			101,110	12,130	113,250		
09.07.25.10	Pumps P2511.02 0.75			101,110	12,130	113,250		
09.07.25.11	Pumps P2511.03 80			243,490	29,220	272,700		
09.07.25.13	Pumps P2511.04 0.75			101,110	12,130	113,250		
09.07.25.14	Pumps P2511.05 35			196,360	23,560	219,920		
09.07.25.15	Relift Pumps P2531A 60			241,710	29,010	270,720		
09.07.25.16	Relift Pumps P2531B 60			241,710	29,010	270,720		
09.07.25.17	Relift Pumps P2531C 60			241,710	29,010	270,720		
09.07.25.18	Pumps P2520 15			140,790	16,890	157,680		
09.07.25.20	Pumps P2521.01 15			140,790	16,890	157,680		
09.07.25.23	Pumps P2530.01 65			221,180	26,540	247,720		
09.07.25.26	Pumps P2530.02 1.5			101,110	12,130	113,250		
09.07.25.27	Pumps P2530.03 7.5			101,110	12,130	113,250		
09.07.25.28	Pumps P2530.04 0.75			101,110	12,130	113,250		
09.07.25.29	Pumps P2530.05 5			101,110	12,130	113,250		
09.07.25.30	Pumps P2530.06 0.75			101,110	12,130	113,250		
09.07.25.31	Pumps P2530.07 20			140,790	16,890	157,680		
09.07.25.33	Pumps P2531.01 10			129,700	15,560	145,270		
09.07.25.34	Pumps P2532.01 2.5			101,110	12,130	113,250		
09.07.25.35	Pumps P2532.02 0.75			101,110	12,130	113,250		
09.07.25.36	Pumps P2532.03 10			129,700	15,560	145,270		
09.07.25.37	Pumps P2532.05 0.75			101,110	12,130	113,250		
09.07.25.41	Pumps P2532.04 1.5			101,110	12,130	113,250		
09.07.25.42	Pumps P2533 100			250,310	30,040	280,350		
09.07.25.43	Pumps P2533.01 25			148,360	17,800	166,170		
09.07.25.44	Pumps P2533.02 45			201,070	24,130	225,200		
09.07.25.47	Pumps P2533.03 20			140,790	16,890	157,680		
09.07.25.49	Pumps P2535 15			140,790	16,890	157,680		
09.07.25.59	Pumps P2540.01 0.75			101,110	12,130	113,250		
09.07.25.60	Pumps P2540.02 7.5			101,110	12,130	113,250		
09.07.25.61	Pumps P2540.03 0.75			101,110	12,130	113,250		
TOTAL Pumps				34.00 EA	4,848,670	581,840	5,430,510	159720.87

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.07.40 Weirs							
09.07.40.01	Weir, 2530.01	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.02	Weir, 2530.02	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.03	Weir, 2530.03	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.04	Weir, 2530.04	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.05	Weir, 2530.05	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.06	Weir, 2530.06	1.00	EA	20,510	2,460	22,970	22968.09
09.07.40.07	Weir, 2530.07	1.00	EA	20,970	2,520	23,490	23488.70
09.07.40.08	Weir, 2530.08	1.00	EA	12,360	1,480	13,840	13843.75
09.07.40.09	Weir, 2530.09	1.00	EA	12,360	1,480	13,840	13843.75
09.07.40.10	Weir, 2530.10	1.00	EA	12,360	1,480	13,840	13843.75
09.07.40.11	Weir, 2530.11	1.00	EA	12,360	1,480	13,840	13843.75
09.07.40.12	Weir, 2532.01	1.00	EA	31,750	3,810	35,560	35561.65
09.07.40.13	Weir, 2532.02	1.00	EA	31,750	3,810	35,560	35561.65
09.07.40.14	Weir, 2532.03	1.00	EA	31,750	3,810	35,560	35561.65
09.07.40.15	Weir, 2532.04	1.00	EA	31,750	3,810	35,560	35561.65
TOTAL Weirs		15.00	EA	320,460	38,460	358,920	23927.92
09.07.50 Inverted Siphons							
09.07.50.01	Siphon, 2300-01, 1 each, 78" Dia	200.00	LF	103,960	12,480	116,440	582.18
09.07.50.02	Siphon, 2500-01, 2 each, 48" Dia	206.00	LF	88,620	10,630	99,250	481.81
09.07.50.03	Siphon, 2500-02, 2 each, 72" Dia	223.00	LF	193,980	23,280	217,260	974.27
09.07.50.04	Siphon, 2500.03, 3 each, 66" Dia	215.00	LF	237,880	28,550	266,430	1239.20
09.07.50.05	Siphon, 2520-01, 2 each, 96" Dia	142.00	LF	237,050	28,450	265,500	1869.73
09.07.50.06	Siphon, 2520.02, 2 each, 66" Dia	140.00	LF	118,500	14,220	132,720	947.98
09.07.50.07	Siphon, 2531-01, 3 each, 90" Dia	144.00	LF	311,310	37,360	348,670	2421.33
TOTAL Inverted Siphons		7.00	EA	1,291,310	154,960	1,446,270	206609.88
09.07.60 Gatewell Turnout Structures							
09.07.60.10	T-2510, Can/Can 30" Db1 Gatewell	1.00	EA	150,310	18,040	168,350	168350.61
09.07.60.20	T-2511, Can/Can 30" Db1 Gatewell	1.00	EA	148,520	17,820	166,340	166340.02
09.07.60.30	T-2520, Can/Can 30" Sg1 Gatewell	1.00	EA	104,920	12,590	117,510	117512.91
09.07.60.40	T-2530-1, Can/C 48" Db1 Gatewell	1.00	EA	195,400	23,450	218,850	218845.00
09.07.60.50	T-2530-2, Can/C 48" Db1 Gatewell	1.00	EA	196,290	23,550	219,850	219845.75
09.07.60.60	T-2532, Can/Can 48" Sg1 Gatewell	1.00	EA	125,350	15,040	140,400	140395.35
TOTAL Gatewell Turnout Structures		6.00	EA	920,790	110,500	1,031,290	171881.61
09.07.70 New Canal Landowner Takeoffs							
09.07.70.05	Excavation for Pipe	1198.21	CY	1,320	160	1,470	1.23
09.07.70.10	Place Pipe Bedding	32.50	CY	540	70	610	18.72
09.07.70.15	Install 24" Pipe	650.00	LF	70,450	8,450	78,900	121.39

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.07.70.20	24" Dresser Coupling @ Intake Str	13.00 EA	10,220	1,230	11,450	880.66
09.07.70.25	Intake Structure for 24" Pipe	13.00 EA	20,500	2,460	22,960	1766.43
09.07.70.30	24" Intake Bar Screen	5395.00 LBS	15,870	1,900	17,780	3.30
09.07.70.35	24" Gate Valve	13.00 EA	128,530	15,420	143,960	11073.58
09.07.70.40	Valve box	13.00 EA	820	100	920	70.55
09.07.70.45	Excavate for pumpwell	1170.00 CY	1,430	170	1,600	1.37
09.07.70.50	Install 24" Pumpwell	13.00 EA	56,910	6,830	63,740	4903.35
09.07.70.55	24" Dresser Coupling @ Pumpwell	13.00 EA	10,220	1,230	11,450	880.66
09.07.70.60	Backfill and Compaction	2340.00 CY	5,060	610	5,670	2.42
09.07.70.70	Flow Meter, Purchase Cost	13.00 EA	12,340	1,480	13,820	1062.81
TOTAL New Canal Landowner Takeoffs		13.00 EA	334,220	40,110	374,330	28794.28
09.07.75 Existing Canal Landowner Takeoff						
09.07.75.05	Excavation for Pipe	1036.00 CY	1,140	140	1,270	1.23
09.07.75.10	Place Pipe Bedding	28.00 CY	470	60	520	18.72
09.07.75.15	Install 24" Pipe	560.00 LF	60,690	7,280	67,980	121.39
09.07.75.20	24" Dresser Coupling @ Intake Str	28.00 EA	22,020	2,640	24,660	880.66
09.07.75.25	Intake Structure for 24" Pipe	28.00 EA	44,160	5,300	49,460	1766.43
09.07.75.30	24" Intake Bar Screen	11620.00 LBS	34,190	4,100	38,290	3.30
09.07.75.35	24" Gate Valve	28.00 EA	276,840	33,220	310,060	11073.58
09.07.75.40	Valve box	28.00 EA	1,760	210	1,980	70.55
09.07.75.45	Excavate for pumpwell	2520.00 CY	3,070	370	3,440	1.37
09.07.75.50	Install 24" Pumpwell	28.00 EA	122,580	14,710	137,290	4903.35
09.07.75.55	24" Dresser Coupling @ Pumpwell	28.00 EA	22,020	2,640	24,660	880.66
09.07.75.60	Backfill and Compaction	2016.00 CY	4,360	520	4,880	2.42
09.07.75.70	Flow Meter, Purchase Cost	28.00 EA	26,570	3,190	29,760	1062.81
TOTAL Existing Canal Landowner Takeoff		28.00 EA	619,880	74,390	694,260	24795.07
09.07.80 Pipeline Landowner Takeoffs						
09.07.80.05	Excavation for Pipe	948.00 CY	1,040	120	1,170	1.23
09.07.80.10	Place Pipe Bedding	29.23 CY	490	60	550	18.72
09.07.80.15	Install 12" DI Pipe	790.00 LF	24,330	2,920	27,250	34.49
09.07.80.20	12" Dresser Coupling @ Intake Str	79.00 EA	34,200	4,100	38,300	484.87
09.07.80.25	Intake Structure for 12" Pipe	79.00 EA	85,550	10,270	95,820	1212.86
09.07.80.30	12" Intake Bar Screen	21251.00 LBS	62,530	7,500	70,030	3.30
09.07.80.35	12" Gate Valve	79.00 EA	159,800	19,180	178,980	2265.57
09.07.80.40	Valve box	79.00 EA	4,980	600	5,570	70.55
09.07.80.45	Excavate for pumpwell	7110.00 CY	8,670	1,040	9,710	1.37
09.07.80.50	Install 24" Pumpwell	79.00 EA	345,860	41,500	387,360	4903.35
09.07.80.55	12" Dresser Coupling @ Pumpwell	79.00 EA	34,200	4,100	38,300	484.87
09.07.80.60	Backfill and Compaction	8058.00 CY	17,430	2,090	19,520	2.42
09.07.80.70	Flow Meter, Purchase Cost	79.00 EA	74,970	9,000	83,960	1062.81
TOTAL Pipeline Landowner Takeoffs		79.00 EA	854,050	102,490	956,530	12107.99

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09.07.85 24" CMP Drop Structures						
09.07.85.05	Excavate Trench	222.22 CY	330	40	370	1.67
09.07.85.10	Hand Trim Bottom of Trench	1200.00 SF	320	40	360	0.30
09.07.85.15	Install 24" CMP	6.00 EA	9,090	1,090	10,190	1697.64
09.07.85.20	Backfill & Compact 1/2 Pipe Dia	44.44 CY	120	10	130	3.03
09.07.85.25	Backfill & Compact to Grade	177.78 CY	110	10	120	0.67
TOTAL 24" CMP Drop Structures		6.00 EA	9,970	1,200	11,170	1861.59

TOTAL Canals Contract Area 6		1.00 EA	21,589,100	2,590,690	24,179,800	24179796

09.08 Canals Contract Area 7A						
09.08.01 Mob, Demob & Preparatory Work						
			62,990	7,560	70,550	
TOTAL Mob, Demob & Preparatory Work			62,990	7,560	70,550	

09.08.18 Canal Excavation						
09.08.18.01	Canal Excavation ID-2110	229900.00 CY	250,720	30,090	280,810	1.22
09.08.18.03	Canal Excavation ID-2220	86500.00 CY	84,440	10,130	94,570	1.09
TOTAL Canal Excavation		120.00 AC	335,160	40,220	375,380	3128.18

09.08.19 Existing Channel Improvements						
09.08.19.30	Chan Exc Crooked Cr Ditch ID2200	660899.00 CY	1,169,440	140,330	1,309,770	1.98
09.08.19.40	Chan Clrg and Sng Big Ditch 2240		631,560	75,790	707,350	
TOTAL Existing Channel Improvements		120.00 AC	1,801,000	216,120	2,017,130	16809.38

09.08.20 Pipe Lines						
09.08.20.01	Pipe Line 2200.01, (12" Dia)	2578.00 LF	21,600	2,590	24,190	9.38
09.08.20.02	Pipe Line 2200.02, (12" Dia)	2441.00 LF	20,750	2,490	23,240	9.52
09.08.20.03	Pipe Line 2200.03, (18"&27" Dia)	3752.00 LF	87,220	10,470	97,690	26.04
09.08.20.04	Pipe Line 2200.031, (18" Dia)	2640.00 LF	43,580	5,230	48,810	18.49
09.08.20.06	Pipe Line 2200.05, (12" Dia)	4827.00 LF	29,800	3,580	33,370	6.91
09.08.20.07	Pipe Line 2200.051, (12" Dia)	1399.00 LF	8,640	1,040	9,670	6.91
09.08.20.10	Pipe Line 2200.06, (12" Dia)	2943.00 LF	18,170	2,180	20,350	6.91
09.08.20.11	Pipe Line 2200.07, (12"&18" Dia)	7934.00 LF	106,490	12,780	119,270	15.03
09.08.20.12	Pipe Line 2200.071, (12" Dia)	3294.00 LF	26,090	3,130	29,220	8.87
09.08.20.13	Pipe Line 2200.08, (21"&36" Dia)	16962.00 LF	1,121,010	134,520	1,255,530	74.02
09.08.20.14	Pipe Line 2200.081, (12" Dia)	1271.00 LF	7,850	940	8,790	6.91
09.08.20.15	Pipe Line 2200.082, (18"&24" Dia)	21580.00 LF	433,550	52,030	485,580	22.50
09.08.20.16	Pipe Line 2200.0821, (12" Dia)	5682.00 LF	40,760	4,890	45,650	8.03

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09.08.20.17	Pipe Line 2200.0822, (21" Dia)	9451.00	LF	184,490	22,140	206,630	21.86
09.08.20.18	Pipe Line 2200.083, (12" Dia)	1210.00	LF	7,470	900	8,370	6.91
09.08.20.19	Pipe Line 2200.09, (21" Dia)	18466.00	LF	360,910	43,310	404,220	21.89
09.08.20.20	Pipe Line 2200.091, (12" Dia)	2690.00	LF	16,610	1,990	18,600	6.91
09.08.20.21	Pipe Line 2200.092, (12" Dia)	3283.00	LF	20,270	2,430	22,700	6.91
09.08.20.22	Pipe Line 2200.093, (12" & 18" Dia)	7948.00	LF	81,810	9,820	91,630	11.53
09.08.20.23	Pipe Line 2200.0931, (12" Dia)	2640.00	LF	21,980	2,640	24,620	9.32
09.08.20.24	Pipe Line 2200.0932, (12" Dia)	13889.00	LF	97,180	11,660	108,840	7.84
09.08.20.25	Pipe Line 2200.09321, (12" Dia)	2540.00	LF	15,680	1,880	17,560	6.91
09.08.20.27	PipeLine2200.1, (12" 18" 24" 36" Dia)	17308.00	LF	764,590	91,750	856,340	49.48
09.08.20.28	Pipe Line 2200.101, (12" Dia)	9460.00	LF	64,080	7,690	71,770	7.59
09.08.20.29	Pipe Line 2200.1011, (12" Dia)	1350.00	LF	8,330	1,000	9,330	6.91
09.08.20.31	Pipe Line 2200.102, (12" Dia)	1377.00	LF	8,500	1,020	9,520	6.91
09.08.20.33	Pipe Line 2200.104, (12" Dia)	5306.00	LF	38,440	4,610	43,050	8.11
09.08.20.34	Pipe Line 2200.1041, (12" Dia)	6686.00	LF	41,280	4,950	46,230	6.91
09.08.20.37	Pipe Line 2200.11, (21" & 24" Dia)	20028.00	LF	459,730	55,170	514,890	25.71
09.08.20.38	Pipe Line 2200.111, (12" Dia)	1322.00	LF	8,160	980	9,140	6.91
09.08.20.39	Pipe Line 2200.112, (12" Dia)	4007.00	LF	24,740	2,970	27,710	6.91
09.08.20.40	Pipe Line 2200.12, (12" Dia)	2441.00	LF	15,070	1,810	16,880	6.91
09.08.20.41	Pipe Line 2220.01, (12" Dia)	1705.00	LF	10,530	1,260	11,790	6.91
09.08.20.42	Pipe Line 2240.01, (18" Dia)	2946.00	LF	40,510	4,860	45,370	15.40
09.08.20.43	Pipe Line 2240.02, (15" Dia)	4964.00	LF	48,070	5,770	53,840	10.85
09.08.20.44	Pipe Line 2240.03, (15" Dia)	4634.00	LF	44,880	5,390	50,260	10.85
09.08.20.45	Pipe Line 2240.04, (12" Dia)	3498.00	LF	21,590	2,590	24,190	6.91
09.08.20.46	Pipe Line 2240.041, (12" Dia)	1325.00	LF	8,180	980	9,160	6.91
09.08.20.47	Pipe Line 2240.05, (27" Dia)	10372.00	LF	309,300	37,120	346,420	33.40
09.08.20.48	Pipe Line 2240.06, (36" Dia)	20118.00	LF	1,819,820	218,380	2,038,200	101.31
09.08.20.49	Pipe Line 2240.061, (12" Dia)	3986.00	LF	24,610	2,950	27,560	6.91
09.08.20.51	Pipe Line 2260.01, (12" Dia)	4175.00	LF	25,770	3,090	28,870	6.91
09.08.20.52	Pipe Line 2260.02, (12" Dia)	1173.00	LF	7,240	870	8,110	6.91
09.08.20.53	Pipe Line 2260.03, (12" Dia)	1752.00	LF	10,820	1,300	12,110	6.91
09.08.20.54	Pipe Line 2260.04, (21" Dia)	7492.00	LF	138,570	16,630	155,200	20.72
09.08.20.55	Pipe Line 2260.041, (12" Dia)	7072.00	LF	43,660	5,240	48,900	6.91
09.08.20.56	Pipe Line 2260.042, (15" Dia)	7752.00	LF	75,070	9,010	84,080	10.85
09.08.20.57	Pipe Line 2260.05, (18" & 33" Dia)	13580.00	LF	299,660	35,960	335,620	24.71
09.08.20.58	Pipe Line 2260.051, (21" Dia)	2384.00	LF	44,090	5,290	49,390	20.72
09.08.20.59	Pipe Line 2280.01, (12" Dia)	1270.00	LF	7,840	940	8,780	6.91
09.08.20.60	Pipe Line 2280.02, (12" Dia)	7240.00	LF	44,700	5,360	50,060	6.91
09.08.20.61	Pipe Line 2280.03, (12" Dia)	5356.00	LF	33,060	3,970	37,030	6.91
09.08.20.62	Pipe Line 2280.04, (12" Dia)	1356.00	LF	14,050	1,690	15,740	11.61
09.08.20.63	Pipe Line 2280.05, (18" Dia)	5408.00	LF	74,370	8,920	83,290	15.40
09.08.20.64	Pipe Line 2280.06, (12" Dia)	1533.00	LF	9,460	1,140	10,600	6.91
09.08.20.65	Pipe Line 2280.07, (12" & 24" Dia)	8705.00	LF	99,540	11,940	111,480	12.81
09.08.20.66	Pipe Line 2280.071, (15" Dia)	1253.00	LF	12,130	1,460	13,590	10.85
09.08.20.67	Pipe Line 2280.08, (12" & 36" Dia)	5801.00	LF	478,350	57,400	535,750	92.36
09.08.20.68	Pipe Line 2280.09(12" 30" & 33" Dia)	13937.00	LF	427,240	51,270	478,510	34.33
09.08.20.69	Pipe Line 2280.091 (18" & 21" Dia)	16172.00	LF	236,790	28,410	265,200	16.40
09.08.20.70	Pipe Line 2280.0911, (12" Dia)	1330.00	LF	8,210	990	9,200	6.91
09.08.20.72	Pipe Line 2280.0913, (12" Dia)	1312.00	LF	8,100	970	9,070	6.91
09.08.20.73	Pipe Line 2280.092, (15" & 21" Dia)	2686.00	LF	39,020	4,680	43,700	16.27

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.08.20.74	Pipe Line 2280.0921,	(15" Dia)	623.00 LF		6,030	720	6,760	10.85
TOTAL Pipe Lines				381615.00 LF	8,676,070	1,041,130	9,717,200	25.46
09.08.25 Pumps								
09.08.25.01	Pumps P2200.01	0.75			101,110	12,130	113,250	
09.08.25.02	Pumps P2200.02	0.75			101,110	12,130	113,250	
09.08.25.03	Pumps P2200.03	25			148,360	17,800	166,170	
09.08.25.06	Pumps P2200.05	5			101,110	12,130	113,250	
09.08.25.10	Pumps P2200.06	2			101,110	12,130	113,250	
09.08.25.11	Pumps P2200.07	15			140,790	16,890	157,680	
09.08.25.13	Pumps P2200.08	85			243,490	29,220	272,700	
09.08.25.19	Pumps P2200.09	35			196,360	23,560	219,920	
09.08.25.27	Pumps P2200.10	75			225,650	27,080	252,730	
09.08.25.37	Pumps P2200.11	30			148,360	17,800	166,170	
09.08.25.40	Pumps P2200.12	1.5			101,110	12,130	113,250	
09.08.25.41	Pumps P2220.01	1			101,110	12,130	113,250	
09.08.25.42	Pumps P2240.01	10			129,700	15,560	145,270	
09.08.25.43	Pumps P2240.02	5			101,110	12,130	113,250	
09.08.25.44	Pumps P2240.03	5			101,110	12,130	113,250	
09.08.25.45	Pumps P2240.04	2.5			101,110	12,130	113,250	
09.08.25.47	Pumps P2240.05	20			140,790	16,890	157,680	
09.08.25.48	Pumps P2240.06	50			209,300	25,120	234,420	
09.08.25.49	Pumps P2220A	25			155,120	18,610	173,730	
09.08.25.50	Pumps P2220B	25			155,120	18,610	173,730	
09.08.25.51	Pumps 2260.01	2			101,110	12,130	113,250	
09.08.25.52	Pumps 2260.02	0.75			101,110	12,130	113,250	
09.08.25.53	Pumps 2260.03	0.75			101,110	12,130	113,250	
09.08.25.54	Pumps 2260.04	20			140,790	16,890	157,680	
09.08.25.57	Pumps 2260.05	40			201,070	24,130	225,200	
09.08.25.59	Pumps 2280.01	2			101,110	12,130	113,250	
09.08.25.60	Pumps 2280.02	3			101,110	12,130	113,250	
09.08.25.61	Pumps 2280.03	5			101,110	12,130	113,250	
09.08.25.62	Pumps 2280.04	0.75			101,110	12,130	113,250	
09.08.25.63	Pumps 2280.05	7.5			101,110	12,130	113,250	
09.08.25.64	Pumps 2280.07	15			140,790	16,890	157,680	
09.08.25.65	Pumps 2280.06	0.75			101,110	12,130	113,250	
09.08.25.66	Pumps 2280.08	60			210,220	25,230	235,440	
TOTAL Pumps				33.00 EA	4,405,970	528,720	4,934,690	149535.99
09.08.40 Weirs								
09.08.40.01	Weir, 2200.02		1.00 EA		21,090	2,530	23,620	23623.53
09.08.40.02	Weir, 2200.03		1.00 EA		21,090	2,530	23,620	23623.53
09.08.40.03	Weir, 2200.04		1.00 EA		21,090	2,530	23,620	23623.53
09.08.40.04	Weir, 2200.05		1.00 EA		21,090	2,530	23,620	23623.53
09.08.40.05	Weir, 2200.06		1.00 EA		21,230	2,550	23,780	23775.12

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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09.08.40.06	Weir, 2200.07	1.00 EA	43,610	5,230	48,840	48838.97
09.08.40.07	Weir, 2240.01	1.00 EA	27,830	3,340	31,170	31172.71
09.08.40.08	Weir, 2240.02	1.00 EA	33,510	4,020	37,530	37531.16
09.08.40.09	Weir, 2240.03	1.00 EA	35,350	4,240	39,600	39596.54
09.08.40.10	Weir, 2240.04	1.00 EA	33,510	4,020	37,530	37532.61
TOTAL Weirs		10.00 EA	279,410	33,530	312,940	31294.12
09.08.50 Inverted Siphons						
09.08.50.01	Siphon, 2220-01, 2 each, 48" Dia	123.00 LF	61,680	7,400	69,080	561.65
09.08.50.02	Siphon, 2220-02, 2 each, 54" Dia	123.00 LF	74,940	8,990	83,940	682.40
09.08.50.03	Siphon, 2220-03, 3 each, 54" Dia	123.00 LF	111,080	13,330	124,410	1011.48
TOTAL Inverted Siphons		3.00 EA	247,710	29,720	277,430	92476.99
09.08.60 Gatewell Turnout Structures						
09.08.60.20	T-2200, Can/C, 60" Trpl Gatewell	1.00 EA	317,240	38,070	355,310	355311.81
09.08.60.30	T-2240, Can/Can 30" Dbl Gatewell	1.00 EA	150,040	18,010	168,050	168047.35
TOTAL Gatewell Turnout Structures		2.00 EA	467,280	56,070	523,360	261679.58
09.08.70 New Canal Landowner Takeoffs(7A)						
09.08.70.05	Excavation for Pipe	368.68 CY	400	50	450	1.23
09.08.70.10	Place Pipe Bedding	10.00 CY	170	20	190	18.72
09.08.70.15	Install 24" Pipe	200.00 LF	21,680	2,600	24,280	121.39
09.08.70.20	24" Dresser Coupling @ Intake Str	4.00 EA	3,150	380	3,520	880.67
09.08.70.25	Intake Structure for 24" Pipe	4.00 EA	6,310	760	7,070	1766.43
09.08.70.30	24" Intake Bar Screen	1660.00 LBS	4,880	590	5,470	3.30
09.08.70.35	24" Gate Valve	4.00 EA	39,550	4,750	44,290	11073.58
09.08.70.40	Valve box	4.00 EA	250	30	280	70.55
09.08.70.45	Excavate for pumpwell	360.00 CY	440	50	490	1.37
09.08.70.50	Install 24" Pumpwell	4.00 EA	17,510	2,100	19,610	4903.35
09.08.70.55	24" Dresser Coupling @ Pumpwell	4.00 EA	3,150	380	3,520	880.67
09.08.70.60	Backfill and Compaction	720.00 CY	1,560	190	1,740	2.42
09.08.70.70	Flow Meter, Purchase Cost	4.00 EA	3,800	460	4,250	1062.81
TOTAL New Canal Landowner Takeoffs(7A)		4.00 EA	102,840	12,340	115,180	28794.28
09.08.75 Existing Canal LO Takeoffs (7A)						
09.08.75.05	Excavation for Pipe	1295.00 CY	1,420	170	1,590	1.23
09.08.75.10	Place Pipe Bedding	35.00 CY	580	70	660	18.72
09.08.75.15	Install 24" Pipe	700.00 LF	75,870	9,100	84,970	121.39
09.08.75.20	24" Dresser Coupling @ Intake Str	35.00 EA	27,520	3,300	30,820	880.66

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.08.75.25 Intake Structure for 24" Pipe	35.00	EA	55,200	6,620	61,820	1766.43
09.08.75.30 24" Intake Bar Screen	14525.00	LBS	42,740	5,130	47,870	3.30
09.08.75.35 24" Gate Valve	35.00	EA	346,050	41,530	387,580	11073.58
09.08.75.40 Valve box	35.00	EA	2,200	260	2,470	70.55
09.08.75.45 Excavate for pumpwell	3150.00	CY	3,840	460	4,300	1.37
09.08.75.50 Install 24" Pumpwell	35.00	EA	153,230	18,390	171,620	4903.35
09.08.75.55 24" Dresser Coupling @ Pumpwell	35.00	EA	27,520	3,300	30,820	880.66
09.08.75.60 Backfill and Compaction	2520.00	CY	5,450	650	6,100	2.42
09.08.75.70 Flow Meter, Purchase Cost	35.00	EA	33,210	3,990	37,200	1062.81
TOTAL Existing Canal LO Takeoffs (7A)	35.00	EA	774,850	92,980	867,830	24795.07

09.08.80 Pipeline Landowner Takeoffs (7A)

09.08.80.05 Excavation for Pipe	264.00	CY	290	30	320	1.23
09.08.80.10 Place Pipe Bedding	8.14	CY	140	20	150	18.72
09.08.80.15 Install 12" DI Pipe	220.00	LF	6,770	810	7,590	34.49
09.08.80.20 12" Dresser Coupling @ Intake Str	22.00	EA	9,520	1,140	10,670	484.87
09.08.80.25 Intake Structure for 12" Pipe	22.00	EA	23,820	2,860	26,680	1212.86
09.08.80.30 12" Intake Bar Screen	5918.00	LBS	17,410	2,090	19,500	3.30
09.08.80.35 12" Gate Valve	22.00	EA	44,500	5,340	49,840	2265.57
09.08.80.40 Valve box	22.00	EA	1,390	170	1,550	70.55
09.08.80.45 Excavate for pumpwell	1980.00	CY	2,420	290	2,710	1.37
09.08.80.50 Install 24" Pumpwell	22.00	EA	96,320	11,560	107,870	4903.35
09.08.80.55 12" Dresser Coupling @ Pumpwell	22.00	EA	9,520	1,140	10,670	484.87
09.08.80.60 Backfill and Compaction	2244.00	CY	4,850	580	5,440	2.42
09.08.80.70 Flow Meter, Purchase Cost	22.00	EA	20,880	2,510	23,380	1062.81
TOTAL Pipeline Landowner Takeoffs (7A)	22.00	EA	237,840	28,540	266,380	12107.99

09.08.85 24" CMP Drop Structures (7A)

09.08.85.05 Excavate Trench	185.19	CY	280	30	310	1.67
09.08.85.10 Hand Trim Bottom of Trench	1000.00	SF	270	30	300	0.30
09.08.85.15 Install 24" CMP	5.00	EA	7,580	910	8,490	1697.64
09.08.85.20 Backfill & Compact 1/2 Pipe Dia	37.04	CY	100	10	110	3.03
09.08.85.25 Backfill & Compact to Grade	148.15	CY	90	10	100	0.67
TOTAL 24" CMP Drop Structures (7A)	5.00	EA	8,310	1,000	9,310	1861.59

TOTAL Canals Contract Area 7A	1.00	EA	17,399,430	2,087,930	19,487,370	19487367
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09.09 Canals Contract Area 7B

09.09.20 Pumps

09.09.20.10 Pumps P2260A 40 Relift	1.00	EA	221,210	26,540	247,750	247749.78
09.09.20.20 Pumps P2260B 40 Relift	1.00	EA	221,210	26,540	247,750	247749.78

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09.09.20.30	Pumps P2280A 25 Relift	1.00 EA	158,470	19,020	177,480	177483.16
09.09.20.40	Pumps P2280B 25 Relift	1.00 EA	158,470	19,020	177,480	177483.16
TOTAL Pumps		4.00 EA	759,340	91,120	850,470	212616.47
09.09.25 Canal Excavation						
09.09.25.05	Canal Excavation ID-2260	415200.00 CY	368,860	44,260	413,120	0.99
09.09.25.06	Canal Excavation ID-2280	161000.00 CY	230,820	27,700	258,520	1.61
TOTAL Canal Excavation		4.00 EA	599,690	71,960	671,650	167911.88
09.09.71 New Canal Landowner Takeoffs(7B)						
09.09.71.05	Excavation for Pipe	1106.04 CY	1,210	150	1,360	1.23
09.09.71.10	Place Pipe Bedding	30.00 CY	500	60	560	18.72
09.09.71.15	Install 24" Pipe	600.00 LF	65,030	7,800	72,830	121.39
09.09.71.20	24" Dresser Coupling @ Intake Str	12.00 EA	9,440	1,130	10,570	880.66
09.09.71.25	Intake Structure for 24" Pipe	12.00 EA	18,930	2,270	21,200	1766.43
09.09.71.30	24" Intake Bar Screen	4980.00 LBS	14,650	1,760	16,410	3.30
09.09.71.35	24" Gate Valve	12.00 EA	118,650	14,240	132,880	11073.58
09.09.71.40	Valve box	12.00 EA	760	90	850	70.55
09.09.71.45	Excavate for pumpwell	1080.00 CY	1,320	160	1,480	1.37
09.09.71.50	Install 24" Pumpwell	12.00 EA	52,540	6,300	58,840	4903.35
09.09.71.55	24" Dresser Coupling @ Pumpwell	12.00 EA	9,440	1,130	10,570	880.66
09.09.71.60	Backfill and Compaction	2160.00 CY	4,670	560	5,230	2.42
09.09.71.70	Flow Meter, Purchase Cost	12.00 EA	11,390	1,370	12,750	1062.81
TOTAL New Canal Landowner Takeoffs(7B)		12.00 EA	308,510	37,020	345,530	28794.28
09.09.81 Pipeline Landowner Takeoffs (7B)						
09.09.81.05	Excavation for Pipe	1512.00 CY	1,660	200	1,860	1.23
09.09.81.10	Place Pipe Bedding	46.62 CY	780	90	870	18.72
09.09.81.15	Install 12" DI Pipe	1260.00 LF	38,800	4,660	43,460	34.49
09.09.81.20	12" Dresser Coupling @ Intake Str	126.00 EA	54,550	6,550	61,090	484.87
09.09.81.25	Intake Structure for 12" Pipe	126.00 EA	136,450	16,370	152,820	1212.86
09.09.81.30	12" Intake Bar Screen	33894.00 LBS	99,730	11,970	111,700	3.30
09.09.81.35	12" Gate Valve	126.00 EA	254,880	30,590	285,460	2265.57
09.09.81.40	Valve box	126.00 EA	7,940	950	8,890	70.55
09.09.81.45	Excavate for pumpwell	11340.00 CY	13,830	1,660	15,490	1.37
09.09.81.50	Install 24" Pumpwell	126.00 EA	551,630	66,200	617,820	4903.35
09.09.81.55	12" Dresser Coupling @ Pumpwell	126.00 EA	54,550	6,550	61,090	484.87
09.09.81.60	Backfill and Compaction	12852.00 CY	27,800	3,340	31,130	2.42
09.09.81.70	Flow Meter, Purchase Cost	126.00 EA	119,570	14,350	133,910	1062.81
TOTAL Pipeline Landowner Takeoffs (7B)		126.00 EA	1,362,150	163,460	1,525,610	12107.99

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09.09.86 24" CMP Drop Structures (7B)						
09.09.86.05	Excavate Trench	518.52 CY	770	90	870	1.67
09.09.86.10	Hand Trim Bottom of Trench	2800.00 SF	750	90	840	0.30
09.09.86.15	Install 24" CMP	14.00 EA	21,220	2,550	23,770	1697.64
09.09.86.20	Backfill & Compact 1/2 Pipe Dia	103.70 CY	280	30	310	3.03
09.09.86.25	Backfill & Compact to Grade	414.81 CY	250	30	280	0.67
TOTAL 24" CMP Drop Structures (7B)		14.00 EA	23,270	2,790	26,060	1861.59
TOTAL Canals Contract Area 7B		1.00 EA	3,052,960	366,360	3,419,310	3419314

09.10 Canals Contract Area 8						
09.10.01	Mob, Demob & Preparatory Work		25,200	3,020	28,220	
TOTAL Mob, Demob & Preparatory Work			25,200	3,020	28,220	

09.10.30 Check Structures						
09.10.30.01	Check Structure C-2500R	1.00 EA	1,018,210	122,190	1,140,400	1140399
TOTAL Check Structures		1.00 EA	1,018,210	122,190	1,140,400	1140399

09.10.70 New Canal Landowner Takeoffs						
09.10.70.05	Excavation for Pipe	184.34 CY	200	20	230	1.23
09.10.70.10	Place Pipe Bedding	5.00 CY	80	10	90	18.72
09.10.70.15	Install 24" Pipe	100.00 LF	10,840	1,300	12,140	121.39
09.10.70.20	24" Dresser Coupling @ Intake Str	2.00 EA	1,570	190	1,760	880.66
09.10.70.25	Intake Structure for 24" Pipe	2.00 EA	3,150	380	3,530	1766.43
09.10.70.30	24" Intake Bar Screen	830.00 LBS	2,440	290	2,740	3.30
09.10.70.35	24" Gate Valve	2.00 EA	19,770	2,370	22,150	11073.58
09.10.70.40	Valve box	2.00 EA	130	20	140	70.55
09.10.70.45	Excavate for pumpwell	180.00 CY	220	30	250	1.37
09.10.70.50	Install 24" Pumpwell	2.00 EA	8,760	1,050	9,810	4903.35
09.10.70.55	24" Dresser Coupling @ Pumpwell	2.00 EA	1,570	190	1,760	880.66
09.10.70.60	Backfill and Compaction	360.00 CY	780	90	870	2.42
09.10.70.70	Flow Meter, Purchase Cost	2.00 EA	1,900	230	2,130	1062.81
TOTAL New Canal Landowner Takeoffs		2.00 EA	51,420	6,170	57,590	28794.27
TOTAL Canals Contract Area 8		1.00 EA	1,094,830	131,380	1,226,210	1226208

09.11 Canals Contract Area 9						

BOR ID: BMLABR

EQUIP ID: NEWEQ9

Currency in DOLLARS

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

09.11.01	Mob, Demob & Preparatory Work		31,500	3,780	35,280	
TOTAL Mob, Demob & Preparatory Work			31,500	3,780	35,280	

09.11.05	Canal Excavation					
09.11.05.01	Canal Excavation ID-2500	409600.00 CY	333,060	39,970	373,030	0.91
09.11.05.02	Canal Excavation ID-2510	41500.00 CY	33,150	3,980	37,130	0.89
TOTAL Canal Excavation			366,210	43,940	410,150	0.91

09.11.30	Check Structures					
09.11.30.01	Check Structure C-2500.1	1.00 EA	936,140	112,340	1,048,470	1048472
09.11.30.02	Check Structure C-2500.2	1.00 EA	921,160	110,540	1,031,700	1031702
TOTAL Check Structures			1,857,300	222,880	2,080,170	1040087

09.11.70	New Canal Landowner Takeoffs					
09.11.70.05	Excavation for Pipe	829.53 CY	910	110	1,020	1.23
09.11.70.10	Place Pipe Bedding	22.50 CY	380	50	420	18.72
09.11.70.15	Install 24" Pipe	450.00 LF	48,770	5,850	54,630	121.39
09.11.70.20	24" Dresser Coupling @ Intake Str	9.00 EA	7,080	850	7,930	880.66
09.11.70.25	Intake Structure for 24" Pipe	9.00 EA	14,190	1,700	15,900	1766.43
09.11.70.30	24" Intake Bar Screen	3735.00 LBS	10,990	1,320	12,310	3.30
09.11.70.35	24" Gate Valve	9.00 EA	88,980	10,680	99,660	11073.58
09.11.70.40	Valve box	9.00 EA	570	70	630	70.55
09.11.70.45	Excavate for pumpwell	810.00 CY	990	120	1,110	1.37
09.11.70.50	Install 24" Pumpwell	9.00 EA	39,400	4,730	44,130	4903.35
09.11.70.55	24" Dresser Coupling @ Pumpwell	9.00 EA	7,080	850	7,930	880.66
09.11.70.60	Backfill and Compaction	1620.00 CY	3,500	420	3,920	2.42
09.11.70.70	Flow Meter, Purchase Cost	9.00 EA	8,540	1,020	9,570	1062.81
TOTAL New Canal Landowner Takeoffs			231,380	27,770	259,150	28794.28

TOTAL Canals Contract Area 9			2,486,390	298,370	2,784,750	2784752

09.12	Canals Contract Area 10					
09.12.01	Mob, Demob & Preparatory Work		31,500	3,780	35,280	
TOTAL Mob, Demob & Preparatory Work			31,500	3,780	35,280	

09.12.10	Canal Excavation					

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EQUIP ID: NEWEQ9

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	QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.12.10.01 Canal Excavation ID-3000	1372100 CY	907,520	108,900	1,016,430	0.74
TOTAL Canal Excavation	1372100 CY	907,520	108,900	1,016,430	0.74
09.12.30 Check Structures					
09.12.30.01 Check Structure C-3000	1.00 EA	1,018,210	122,190	1,140,400	1140399
TOTAL Check Structures	1.00 EA	1,018,210	122,190	1,140,400	1140399
09.12.50 Inverted Siphons					
09.12.50.01 Siphon, 3000-01, 2 each, 48" Dia	205.00 LF	88,290	10,600	98,890	482.39
09.12.50.02 Siphon, 3000-02, 2 each, 42" Dia	205.00 LF	74,790	8,980	83,770	408.63
09.12.50.03 Siphon, 3000-03, 1 each, 78" Dia	218.00 LF	110,650	13,280	123,930	568.47
09.12.50.04 Siphon, 3000-04, 1 each, 48" Dia	320.00 LF	66,270	7,950	74,220	231.94
09.12.50.05 Siphon, 3000-05, 3 each, 60" Dia	300.00 LF	251,510	30,180	281,690	938.97
09.12.50.06 Siphon, 3000-06, 3 each, 60" Dia	300.00 LF	251,510	30,180	281,690	938.97
09.12.50.07 Siphon, 3000-07, 2 each, 60" Dia	230.00 LF	138,750	16,650	155,400	675.64
09.12.50.10 Siphon, 3000-10, 2 each, 60" Dia	300.00 LF	170,630	20,480	191,100	637.01
TOTAL Inverted Siphons	8.00 EA	1,152,400	138,290	1,290,690	161335.93
09.12.60 Gatewell Turnout Structures					
09.12.60.10 T-3000R, C/C, 60" Tripl Gatewell	1.00 EA	315,170	37,820	352,990	352985.99
TOTAL Gatewell Turnout Structures	1.00 EA	315,170	37,820	352,990	352985.99
09.12.70 New Canal Landowner Takeoffs					
09.12.70.05 Excavation for Pipe	737.36 CY	810	100	910	1.23
09.12.70.10 Place Pipe Bedding	20.00 CY	330	40	370	18.72
09.12.70.15 Install 24" Pipe	400.00 LF	43,350	5,200	48,560	121.39
09.12.70.20 24" Dresser Coupling @ Intake Str	8.00 EA	6,290	750	7,050	880.66
09.12.70.25 Intake Structure for 24" Pipe	8.00 EA	12,620	1,510	14,130	1766.43
09.12.70.30 24" Intake Bar Screen	3320.00 LBS	9,770	1,170	10,940	3.30
09.12.70.35 24" Gate Valve	8.00 EA	79,100	9,490	88,590	11073.58
09.12.70.40 Valve box	8.00 EA	500	60	560	70.55
09.12.70.45 Excavate for pumpwell	720.00 CY	880	110	980	1.37
09.12.70.50 Install 24" Pumpwell	8.00 EA	35,020	4,200	39,230	4903.35
09.12.70.55 24" Dresser Coupling @ Pumpwell	8.00 EA	6,290	750	7,050	880.66
09.12.70.60 Backfill and Compaction	1440.00 CY	3,110	370	3,490	2.42
09.12.70.70 Flow Meter, Purchase Cost	8.00 EA	7,590	910	8,500	1062.81
TOTAL New Canal Landowner Takeoffs	8.00 EA	205,670	24,680	230,350	28794.28

BOR ID: BMLABR

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
TOTAL Canals Contract Area 10		1.00	EA	3,630,470	435,660	4,066,130	4066128
09.13 Canals Contract Area 11							
09.13.01 Mob, Demob & Preparatory Work				31,500	3,780	35,280	
TOTAL Mob, Demob & Preparatory Work				31,500	3,780	35,280	
09.13.09 Existing Channel Impr Oak Branch							
09.13.09.01	Chan Excav White Oak Br ID 2511	179057.00	CY	362,020	43,440	405,460	2.26
09.13.09.02	Chan Exc Shumaker Branch ID 2540	60834.00	CY	185,870	22,300	208,170	3.42
TOTAL Existing Channel Impr Oak Branch				547,890	65,750	613,630	
09.13.20 Pipe Lines							
09.13.20.08	Pipe Line 2511.01, (33" Dia)	30457.00	LF	2,383,730	286,050	2,669,780	87.66
09.13.20.09	Pipe Line 2511.011, (12" Dia)	2559.00	LF	15,800	1,900	17,690	6.91
09.13.20.10	Pipe Line 2511.02, (12" Dia)	837.00	LF	10,920	1,310	12,230	14.62
09.13.20.11	Pipe Line 2511.03, (36" Dia)	13288.00	LF	1,186,910	142,430	1,329,340	100.04
09.13.20.12	Pipe Line 2511.031, (12" Dia)	6604.00	LF	46,450	5,570	52,020	7.88
09.13.20.13	Pipe Line 2511.04, (12" Dia)	3090.00	LF	19,080	2,290	21,360	6.91
09.13.20.14	Pipe Line 2511.05, (27" Dia)	5991.00	LF	189,400	22,730	212,130	35.41
09.13.20.15	Pipe Line 2511.051, (12" Dia)	1082.00	LF	6,680	800	7,480	6.91
09.13.20.16	Pipe Line 2511.052, (18" Dia)	1324.00	LF	18,210	2,180	20,390	15.40
09.13.20.17	Pipe Line 2511.053, (24" Dia)	3923.00	LF	90,400	10,850	101,240	25.81
09.13.20.18	Pipe Line 2511.0531, (18" Dia)	3911.00	LF	53,780	6,450	60,240	15.40
09.13.20.19	Pipe Line 2511.0532, (12" Dia)	1378.00	LF	8,510	1,020	9,530	6.91
09.13.20.60	Pipe Line 2540.01, (12" Dia)	2884.00	LF	17,800	2,140	19,940	6.91
09.13.20.61	Pipe Line 2540.02, (15" Dia)	8410.00	LF	87,890	10,550	98,440	11.71
09.13.20.62	Pipe Line 2540.03, (12" & 18" Dia)	6331.00	LF	75,210	9,020	84,230	13.30
09.13.20.63	Pipe Line 2540.031, (15" Dia)	8085.00	LF	84,750	10,170	94,920	11.74
TOTAL Pipe Lines		100154.00	LF	4,295,520	515,460	4,810,980	48.04
09.13.40 Weirs							
09.13.40.01	Weir, 2511.01	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.02	Weir, 2511.02	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.03	Weir, 2511.03	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.04	Weir, 2511.04	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.05	Weir, 2511.05	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.06	Weir, 2511.06	1.00	EA	17,010	2,040	19,050	19054.30
09.13.40.07	Weir, 2511.07	1.00	EA	12,360	1,480	13,840	13843.75
09.13.40.08	Weir, 2511.08	1.00	EA	12,690	1,520	14,210	14212.77
09.13.40.09	Weir, 2511.09	1.00	EA	12,690	1,520	14,210	14212.77

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.13.40.10	Weir, 2540.01	1.00 EA	11,600	1,390	12,990	12993.09
09.13.40.11	Weir, 2540.02	1.00 EA	11,600	1,390	12,990	12993.09
09.13.40.12	Weir, 2540.03	1.00 EA	11,600	1,390	12,990	12993.09
09.13.40.13	Weir, 2540.04	1.00 EA	11,600	1,390	12,990	12993.09
09.13.40.14	Weir, 2540.05	1.00 EA	11,740	1,410	13,140	13144.68
09.13.40.15	Weir, 2540.06	1.00 EA	11,740	1,410	13,140	13144.68
TOTAL Weirs		15.00 EA	209,690	25,160	234,860	15657.12
09.13.50 Inverted Siphons						
09.13.50.01	Siphon, 2880-01, 3 each, 48" Dia	110.00 LF	85,000	10,200	95,200	865.49
09.13.50.02	Siphon, 2880-02, 2 each, 54" Dia	110.00 LF	69,950	8,390	78,340	712.21
09.13.50.03	Siphon, 2880-03, 2 each, 54" Dia	110.00 LF	69,950	8,390	78,340	712.21
09.13.50.04	Siphon, 2880-04, 2 each, 48" Dia	110.00 LF	57,460	6,900	64,360	585.07
TOTAL Inverted Siphons		4.00 EA	282,360	33,880	316,250	79061.90
09.13.75 Existing Canal Landowner Takeoff						
09.13.75.05	Excavation for Pipe	1147.00 CY	1,260	150	1,410	1.23
09.13.75.10	Place Pipe Bedding	31.00 CY	520	60	580	18.72
09.13.75.15	Install 24" Pipe	620.00 LF	67,200	8,060	75,260	121.39
09.13.75.20	24" Dresser Coupling @ Intake Str	31.00 EA	24,380	2,930	27,300	880.66
09.13.75.25	Intake Structure for 24" Pipe	31.00 EA	48,890	5,870	54,760	1766.43
09.13.75.30	24" Intake Bar Screen	12865.00 LBS	37,850	4,540	42,400	3.30
09.13.75.35	24" Gate Valve	31.00 EA	306,170	36,740	342,910	11061.61
09.13.75.40	Valve box	31.00 EA	1,950	230	2,190	70.55
09.13.75.45	Excavate for pumpwell	2790.00 CY	3,400	410	3,810	1.37
09.13.75.50	Install 24" Pumpwell	31.00 EA	135,720	16,290	152,000	4903.35
09.13.75.55	24" Dresser Coupling @ Pumpwell	31.00 EA	24,380	2,930	27,300	880.66
09.13.75.60	Backfill and Compaction	2232.00 CY	4,830	580	5,410	2.42
09.13.75.70	Flow Meter, Purchase Cost	31.00 EA	29,420	3,530	32,950	1062.81
TOTAL Existing Canal Landowner Takeoff		31.00 EA	685,960	82,320	768,280	24783.10
09.13.80 Pipeline Landowner Takeoffs						
09.13.80.05	Excavation for Pipe	396.00 CY	430	50	490	1.23
09.13.80.10	Place Pipe Bedding	12.21 CY	200	20	230	18.72
09.13.80.15	Install 12" DI Pipe	330.00 LF	10,160	1,220	11,380	34.49
09.13.80.20	12" Dresser Coupling @ Intake Str	33.00 EA	14,290	1,710	16,000	484.87
09.13.80.25	Intake Structure for 12" Pipe	33.00 EA	35,740	4,290	40,020	1212.86
09.13.80.30	12" Intake Bar Screen	8877.00 LBS	26,120	3,130	29,250	3.30
09.13.80.35	12" Gate Valve	33.00 EA	66,750	8,010	74,760	2265.57
09.13.80.40	Valve box	33.00 EA	2,080	250	2,330	70.55
09.13.80.45	Excavate for pumpwell	2970.00 CY	3,620	430	4,060	1.37
09.13.80.50	Install 24" Pumpwell	33.00 EA	144,470	17,340	161,810	4903.35

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.13.80.55	12" Dresser Coupling @ Pumpwell	33.00 EA	14,290	1,710	16,000	484.87
09.13.80.60	Backfill and Compaction	3366.00 CY	7,280	870	8,150	2.42
09.13.80.70	Flow Meter, Purchase Cost	33.00 EA	31,310	3,760	35,070	1062.81
TOTAL Pipeline Landowner Takeoffs		33.00 EA	356,750	42,810	399,560	12107.99
09.13.85 24" CMP Drop Structures						
09.13.85.05	Excavate Trench	296.30 CY	440	50	500	1.67
09.13.85.10	Hand Trim Bottom of Trench	1600.00 SF	430	50	480	0.30
09.13.85.15	Install 24" CMP	8.00 EA	12,130	1,460	13,580	1697.64
09.13.85.20	Backfill & Compact 1/2 Pipe Dia	59.26 CY	160	20	180	3.03
09.13.85.25	Backfill & Compact to Grade	237.04 CY	140	20	160	0.67
TOTAL 24" CMP Drop Structures		8.00 EA	13,300	1,600	14,890	1861.59
TOTAL Canals Contract Area 11		1.00 EA	6,422,970	770,760	7,193,730	7193727
09.14 Canals Contract Area 12						
09.14.01	Mob, Demob & Preparatory Work		25,200	3,020	28,220	
TOTAL Mob, Demob & Preparatory Work			25,200	3,020	28,220	
09.14.20 Pipe Lines						
09.14.20.01	Pipe Line 3000.01, (12" Dia)	2810.00 LF	17,350	2,080	19,430	6.91
09.14.20.02	Pipe Line 3000.04, (12" Dia)	3752.00 LF	23,160	2,780	25,940	6.91
09.14.20.04	Pipe Line 3000.05, (15" Dia)	20433.00 LF	204,330	24,520	228,850	11.20
09.14.20.06	Pipe Line 3000.07, (15" & 24" Dia)	15571.00 LF	323,300	38,800	362,100	23.25
09.14.20.08	Pipe Line 3000.072, (21" Dia)	4472.00 LF	92,390	11,090	103,480	23.14
09.14.20.12	Pipe Line 3000.08, (15" Dia)	2718.00 LF	32,770	3,930	36,700	13.50
TOTAL Pipe Lines		6562.00 LF	693,310	83,200	776,510	118.33
09.14.25 Pumps						
09.14.25.01	Pumps P3000.01 2		101,110	12,130	113,250	
09.14.25.02	Pumps P3000.04 0.75		101,110	12,130	113,250	
09.14.25.05	Pumps P3000.05 15		140,790	16,890	157,680	
09.14.25.07	Pumps P3000.06 15		140,790	16,890	157,680	
09.14.25.11	Pumps P3000.07 45		207,870	24,940	232,820	
09.14.25.12	Pumps 3000.08 7.5		101,110	12,130	113,250	
TOTAL Pumps		6.00 EA	792,800	95,140	887,930	147988.42

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		QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.14.70 New Canal Landowner Takeoffs							
09.14.70.05	Excavation for Pipe	553.02	CY	610	70	680	1.23
09.14.70.10	Place Pipe Bedding	15.00	CY	250	30	280	18.72
09.14.70.15	Install 24" Pipe	300.00	LF	32,520	3,900	36,420	121.39
09.14.70.20	24" Dresser Coupling @ Intake Str	6.00	EA	4,720	570	5,280	880.66
09.14.70.25	Intake Structure for 24" Pipe	6.00	EA	9,460	1,140	10,600	1766.43
09.14.70.30	24" Intake Bar Screen	2490.00	LBS	7,330	880	8,210	3.30
09.14.70.35	24" Gate Valve	6.00	EA	59,260	7,110	66,370	11061.61
09.14.70.40	Valve box	6.00	EA	380	50	420	70.55
09.14.70.45	Excavate for pumpwell	540.00	CY	660	80	740	1.37
09.14.70.50	Install 24" Pumpwell	6.00	EA	26,270	3,150	29,420	4903.35
09.14.70.55	24" Dresser Coupling @ Pumpwell	6.00	EA	4,720	570	5,280	880.66
09.14.70.60	Backfill and Compaction	1080.00	CY	2,340	280	2,620	2.42
09.14.70.70	Flow Meter, Purchase Cost	6.00	EA	5,690	680	6,380	1062.81
TOTAL New Canal Landowner Takeoffs		6.00	EA	154,190	18,500	172,690	28782.31
09.14.80 Pipeline Landowner Takeoffs							
09.14.80.05	Excavation for Pipe	240.00	CY	260	30	300	1.23
09.14.80.10	Place Pipe Bedding	7.40	CY	120	10	140	18.72
09.14.80.15	Install 12" DI Pipe	200.00	LF	6,160	740	6,900	34.49
09.14.80.20	12" Dresser Coupling @ Intake Str	20.00	EA	8,660	1,040	9,700	484.87
09.14.80.25	Intake Structure for 12" Pipe	20.00	EA	21,660	2,600	24,260	1212.86
09.14.80.30	12" Intake Bar Screen	5380.00	LBS	15,830	1,900	17,730	3.30
09.14.80.35	12" Gate Valve	20.00	EA	40,460	4,850	45,310	2265.57
09.14.80.40	Valve box	20.00	EA	1,260	150	1,410	70.55
09.14.80.45	Excavate for pumpwell	1800.00	CY	2,200	260	2,460	1.37
09.14.80.50	Install 24" Pumpwell	20.00	EA	87,560	10,510	98,070	4903.35
09.14.80.55	12" Dresser Coupling @ Pumpwell	20.00	EA	8,660	1,040	9,700	484.87
09.14.80.60	Backfill and Compaction	2040.00	CY	4,410	530	4,940	2.42
09.14.80.70	Flow Meter, Purchase Cost	20.00	EA	18,980	2,280	21,260	1062.81
TOTAL Pipeline Landowner Takeoffs		20.00	EA	216,210	25,950	242,160	12107.99
TOTAL Canals Contract Area 12		1.00	EA	1,881,710	225,800	2,107,510	2107511

09.15 Canals Contract Area 13

09.15.01	Mob, Demob & Preparatory Work			31,500	3,780	35,280	
TOTAL Mob, Demob & Preparatory Work				31,500	3,780	35,280	

09.15.20 Pipe Lines

09.15.20.01	Pipe Line 3000.02, (12" Dia)	798.00	LF	4,930	590	5,520	6.91
09.15.20.02	Pipe Line 3000.03, (12" Dia)	16380.00	LF	118,240	14,190	132,420	8.08

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.15.20.09	Pipe Line 3000.06.	(15" Dia)	6730.00 LF		71,620	8,590	80,220	11.92
TOTAL Pipe Lines				67102.00 LF	194,790	23,370	218,160	3.25
09.15.25 Pumps								
09.15.25.01	Pumps P3000.02	0.75			101,110	12,130	113,250	
09.15.25.02	Pumps P3000.03	0.75			101,110	12,130	113,250	
TOTAL Pumps				2.00 EA	202,230	24,270	226,500	113248.33
09.15.70 New Canal Landowner Takeoffs								
09.15.70.05	Excavation for Pipe		460.85 CY		510	60	570	1.23
09.15.70.10	Place Pipe Bedding		12.50 CY		210	30	230	18.72
09.15.70.15	Install 24" Pipe		250.00 LF		27,100	3,250	30,350	121.39
09.15.70.20	24" Dresser Coupling @ Intake Str		5.00 EA		3,930	470	4,400	880.66
09.15.70.25	Intake Structure for 24" Pipe		5.00 EA		7,890	950	8,830	1766.43
09.15.70.30	24" Intake Bar Screen		2075.00 LBS		6,110	730	6,840	3.30
09.15.70.35	24" Gate Valve		5.00 EA		49,380	5,930	55,310	11061.61
09.15.70.40	Valve box		5.00 EA		310	40	350	70.55
09.15.70.45	Excavate for pumpwell		450.00 CY		550	70	610	1.37
09.15.70.50	Install 24" Pumpwell		5.00 EA		21,890	2,630	24,520	4903.35
09.15.70.55	24" Dresser Coupling @ Pumpwell		5.00 EA		3,930	470	4,400	880.66
09.15.70.60	Backfill and Compaction		900.00 CY		1,950	230	2,180	2.42
09.15.70.70	Flow Meter, Purchase Cost		5.00 EA		4,740	570	5,310	1062.81
TOTAL New Canal Landowner Takeoffs				5.00 EA	128,490	15,420	143,910	28782.31
09.15.80 Pipeline Landowner Takeoffs								
09.15.80.05	Excavation for Pipe		96.00 CY		110	10	120	1.23
09.15.80.10	Place Pipe Bedding		2.96 CY		50	10	60	18.72
09.15.80.15	Install 12" DI Pipe		80.00 LF		2,460	300	2,760	34.49
09.15.80.20	12" Dresser Coupling @ Intake Str		8.00 EA		3,460	420	3,880	484.87
09.15.80.25	Intake Structure for 12" Pipe		8.00 EA		8,660	1,040	9,700	1212.86
09.15.80.30	12" Intake Bar Screen		2152.00 LBS		6,330	760	7,090	3.30
09.15.80.35	12" Gate Valve		8.00 EA		16,180	1,940	18,120	2265.57
09.15.80.40	Valve box		8.00 EA		500	60	560	70.55
09.15.80.45	Excavate for pumpwell		720.00 CY		880	110	980	1.37
09.15.80.50	Install 24" Pumpwell		8.00 EA		35,020	4,200	39,230	4903.35
09.15.80.55	12" Dresser Coupling @ Pumpwell		8.00 EA		3,460	420	3,880	484.87
09.15.80.60	Backfill and Compaction		816.00 CY		1,760	210	1,980	2.42
09.15.80.70	Flow Meter, Purchase Cost		8.00 EA		7,590	910	8,500	1062.81
TOTAL Pipeline Landowner Takeoffs				8.00 EA	86,490	10,380	96,860	12107.99
TOTAL Canals Contract Area 13				1.00 EA	643,490	77,220	720,710	720708.85

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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Ion 28 Apr 2003
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 PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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09.16 Canals Contract Area 14						
09.16.01 Mob, Demob & Preparatory Work			25,200	3,020	28,220	
TOTAL Mob, Demob & Preparatory Work			25,200	3,020	28,220	

09.16.30 Check Structures						
09.16.30.02 Check Structure C-4000R	1.00 EA	921,160	110,540	1,031,700	1031702	
TOTAL Check Structures	1.00 EA	921,160	110,540	1,031,700	1031702	

09.16.70 New Canal Landowner Takeoffs						
09.16.70.05 Excavation for Pipe	92.17 CY	100	10	110	1.23	
09.16.70.10 Place Pipe Bedding	2.50 CY	40	10	50	18.72	
09.16.70.15 Install 24" Pipe	50.00 LF	5,420	650	6,070	121.39	
09.16.70.20 24" Dresser Coupling @ Intake Str	1.00 EA	790	90	880	880.67	
09.16.70.25 Intake Structure for 24" Pipe	1.00 EA	1,580	190	1,770	1766.43	
09.16.70.30 24" Intake Bar Screen	415.00 LBS	1,220	150	1,370	3.30	
09.16.70.35 24" Gate Valve	1.00 EA	9,880	1,190	11,060	11061.61	
09.16.70.40 Valve box	1.00 EA	60	10	70	70.55	
09.16.70.45 Excavate for pumpwell	90.00 CY	110	10	120	1.37	
09.16.70.50 Install 24" Pumpwell	1.00 EA	4,380	530	4,900	4903.35	
09.16.70.55 24" Dresser Coupling @ Pumpwell	1.00 EA	790	90	880	880.67	
09.16.70.60 Backfill and Compaction	180.00 CY	390	50	440	2.42	
09.16.70.70 Flow Meter, Purchase Cost	1.00 EA	950	110	1,060	1062.81	
TOTAL New Canal Landowner Takeoffs	1.00 EA	25,700	3,080	28,780	28782.31	
TOTAL Canals Contract Area 14	1.00 EA	972,060	116,650	1,088,710	1088705	

09.17 Canals Contract Area 15						
09.17.01 Mob, Demob & Preparatory Work			25,200	3,020	28,220	
TOTAL Mob, Demob & Preparatory Work			25,200	3,020	28,220	

09.17.10 Canal Excavation						
09.17.10.10 Canal Excavation ID-4000	104400.00 CY	160,800	19,300	180,090	1.73	
09.17.10.20 Canal Excavation ID-4100	30893.00 CY	28,780	3,450	32,230	1.04	
TOTAL Canal Excavation	758400.00 CY	189,580	22,750	212,320	0.28	

09.17.50 Inverted Siphons						

BOR ID: BMLABR

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.17.50.01	Siphon, 4000-01, 3 each, 48" Dia	173.00 LF	114,990	13,800	128,790	744.46
09.17.50.02	Siphon, 4000-02, 2 each, 54" Dia	217.00 LF	111,050	13,330	124,380	573.16
09.17.50.03	Siphon, 4000-03, 2 each, 54" Dia	208.00 LF	107,590	12,910	120,500	579.34
TOTAL Inverted Siphons		3.00 EA	333,630	40,040	373,670	124556.73
09.17.60 Gatewell Turnout Structures						
09.17.60.10	T-4110, Can/Can 54" Dbl Gatewell	1.00 EA	216,690	26,000	242,690	242691.56
TOTAL Gatewell Turnout Structures		1.00 EA	216,690	26,000	242,690	242691.56
09.17.70 New Canal Landowner Takeoffs						
09.17.70.05	Excavation for Pipe	460.85 CY	510	60	570	1.23
09.17.70.10	Place Pipe Bedding	12.50 CY	210	30	230	18.72
09.17.70.15	Install 24" Pipe	250.00 LF	27,100	3,250	30,350	121.39
09.17.70.20	24" Dresser Coupling @ Intake Str	5.00 EA	3,930	470	4,400	880.66
09.17.70.25	Intake Structure for 24" Pipe	5.00 EA	7,890	950	8,830	1766.43
09.17.70.30	24" Intake Bar Screen	2075.00 LBS	6,110	730	6,840	3.30
09.17.70.35	24" Gate Valve	5.00 EA	49,380	5,930	55,310	11061.61
09.17.70.40	Valve box	5.00 EA	310	40	350	70.55
09.17.70.45	Excavate for pumpwell	450.00 CY	550	70	610	1.37
09.17.70.50	Install 24" Pumpwell	5.00 EA	21,890	2,630	24,520	4903.35
09.17.70.55	24" Dresser Coupling @ Pumpwell	5.00 EA	3,930	470	4,400	880.66
09.17.70.60	Backfill and Compaction	900.00 CY	1,950	230	2,180	2.42
09.17.70.70	Flow Meter, Purchase Cost	5.00 EA	4,740	570	5,310	1062.81
TOTAL New Canal Landowner Takeoffs		5.00 EA	128,490	15,420	143,910	28782.31
TOTAL Canals Contract Area 15		1.00 EA	893,590	107,230	1,000,820	1000819
09.18 Canals Contract Area 16						
09.18.01	Mob, Demob & Preparatory Work		31,500	3,780	35,280	
TOTAL Mob, Demob & Preparatory Work			31,500	3,780	35,280	
09.18.20 Pipe Lines						
09.18.20.01	Pipe Line 4000.02, (27" Dia)	20548.00 LF	662,150	79,460	741,600	36.09
09.18.20.04	Pipe Line 4000.03, (30" Dia)	10496.00 LF	682,270	81,870	764,150	72.80
09.18.20.05	Pipe Line 4000.031, (21" Dia)	621.00 LF	11,490	1,380	12,860	20.72
09.18.20.06	Pipe Line 4000.032, (21" Dia)	3273.00 LF	60,540	7,260	67,800	20.72
09.18.20.07	Pipe Line 4200.01, (15" & 30" Dia)	10036.00 LF	284,710	34,170	318,880	31.77
09.18.20.08	Pipe Line 4200.011, (21" Dia)	18397.00 LF	356,720	42,810	399,530	21.72

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				QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
09.18.20.09	Pipe Line C4200,	(30" Dia)	10794.00	LF	674,600	80,950	755,550	70.00
TOTAL Pipe Lines				74165.00 LF	2,732,470	327,900	3,060,370	41.26
09.18.25 Pumps								
09.18.25.01	Pumps	P4000.02	20		140,790	16,890	157,680	
09.18.25.04	Pumps	P4000.03	15		140,790	16,890	157,680	
09.18.25.07	Pumps	P4200.01	15		140,790	16,890	157,680	
09.18.25.09	Pumps	P4200	15		140,790	16,890	157,680	
TOTAL Pumps				4.00 EA	563,160	67,580	630,740	157684.47
09.18.75 Existing Canal Landowner Takeoff								
09.18.75.05	Excavation for Pipe		148.00	CY	160	20	180	1.23
09.18.75.10	Place Pipe Bedding		4.00	CY	70	10	70	18.72
09.18.75.15	Install 24" Pipe		80.00	LF	8,670	1,040	9,710	121.39
09.18.75.20	24" Dresser Coupling @ Intake Str		4.00	EA	3,150	380	3,520	880.67
09.18.75.25	Intake Structure for 24" Pipe		4.00	EA	6,310	760	7,070	1766.43
09.18.75.30	24" Intake Bar Screen		1660.00	LBS	4,880	590	5,470	3.30
09.18.75.35	24" Gate Valve		4.00	EA	39,510	4,740	44,250	11061.61
09.18.75.40	Valve box		4.00	EA	250	30	280	70.55
09.18.75.45	Excavate for pumpwell		360.00	CY	440	50	490	1.37
09.18.75.50	Install 24" Pumpwell		4.00	EA	17,510	2,100	19,610	4903.35
09.18.75.55	24" Dresser Coupling @ Pumpwell		4.00	EA	3,150	380	3,520	880.67
09.18.75.60	Backfill and Compaction		288.00	CY	620	70	700	2.42
09.18.75.70	Flow Meter, Purchase Cost		4.00	EA	3,800	460	4,250	1062.81
TOTAL Existing Canal Landowner Takeoff				4.00 EA	88,510	10,620	99,130	24783.11
09.18.80 Pipeline Landowner Takeoffs								
09.18.80.05	Excavation for Pipe		228.00	CY	250	30	280	1.23
09.18.80.10	Place Pipe Bedding		7.03	CY	120	10	130	18.72
09.18.80.15	Install 12" DI Pipe		190.00	LF	5,850	700	6,550	34.49
09.18.80.20	12" Dresser Coupling @ Intake Str		19.00	EA	8,230	990	9,210	484.87
09.18.80.25	Intake Structure for 12" Pipe		19.00	EA	20,580	2,470	23,040	1212.86
09.18.80.30	12" Intake Bar Screen		5111.00	LBS	15,040	1,800	16,840	3.30
09.18.80.35	12" Gate Valve		19.00	EA	38,430	4,610	43,050	2265.57
09.18.80.40	Valve box		19.00	EA	1,200	140	1,340	70.55
09.18.80.45	Excavate for pumpwell		1710.00	CY	2,090	250	2,340	1.37
09.18.80.50	Install 24" Pumpwell		19.00	EA	83,180	9,980	93,160	4903.35
09.18.80.55	12" Dresser Coupling @ Pumpwell		19.00	EA	8,230	990	9,210	484.87
09.18.80.60	Backfill and Compaction		1938.00	CY	4,190	500	4,690	2.42
09.18.80.70	Flow Meter, Purchase Cost		19.00	EA	18,030	2,160	20,190	1062.81

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
TOTAL Pipeline Landowner Takeoffs	19.00	EA	205,400	24,650	230,050	12107.99
TOTAL Canals Contract Area 16	1.00	EA	3,621,040	434,520	4,055,570	4055565
09.19 Canals Contract Area 17						
09.19.01 Mob, Demob & Preparatory Work			62,990	7,560	70,550	
TOTAL Mob, Demob & Preparatory Work			62,990	7,560	70,550	
09.19.08 Canal Excavation						
09.19.08.01 Canal Excavation ID 4111	540600.00	CY	762,300	91,480	853,770	1.58
09.19.08.02 Canal Excavation ID 4112	202300.00	CY	451,490	54,180	505,670	2.50
09.19.08.03 Canal Excavation ID 4113	15500.00	CY	22,020	2,640	24,660	1.59
TOTAL Canal Excavation	758400.00	CY	1,235,800	148,300	1,384,100	1.83
09.19.20 Pipe Lines						
09.19.20.01 Pipe Line 4000.01, (30" Dia)	17102.00	LF	1,109,390	133,130	1,242,520	72.65
09.19.20.02 Pipe Line 4100.01, (18" Dia)	6710.00	LF	106,830	12,820	119,650	17.83
09.19.20.03 Pipe Line 4100.011, (12" Dia)	5419.00	LF	39,130	4,700	43,830	8.09
09.19.20.04 Pipe Line 4100.012, (12" Dia)	3090.00	LF	24,760	2,970	27,730	8.97
09.19.20.05 Pipe Line 4100.013, (12" Dia)	6575.00	LF	52,030	6,240	58,270	8.86
09.19.20.06 Pipe Line 4110.01, (12"&21" Dia)	345.00	LF	2,250	270	2,520	7.31
09.19.20.07 Pipe Line 4110.011, (12"&15" Dia)	12890.00	LF	103,230	12,390	115,620	8.97
09.19.20.08 Pipe Line 4110.0111, (12" Dia)	1951.00	LF	12,040	1,450	13,490	6.91
09.19.20.09 Pipe Line 4110.0112, (12" Dia)	2664.00	LF	16,450	1,970	18,420	6.91
09.19.20.10 Pipe Line 4110.02, (18"&21" Dia)	17798.00	LF	271,360	32,560	303,920	17.08
09.19.20.11 Pipe Line 4110.021, (12" Dia)	2082.00	LF	12,850	1,540	14,400	6.91
09.19.20.12 Pipe Line 4111.01, (15" Dia)	13431.00	LF	142,970	17,160	160,120	11.92
09.19.20.13 Pipe Line 4111.02, (12" Dia)	2497.00	LF	15,410	1,850	17,260	6.91
09.19.20.16 Pipe Line 4111.05, (12" Dia)	6531.00	LF	46,000	5,520	51,520	7.89
09.19.20.17 Pipe Line 4111.06, (12" Dia)	3165.00	LF	19,540	2,340	21,880	6.91
09.19.20.18 Pipe Line 4111.061, (12" Dia)	3649.00	LF	33,890	4,070	37,950	10.40
09.19.20.19 Pipe Line 4111.07, (12" Dia)	6329.00	LF	50,430	6,050	56,480	8.92
09.19.20.20 Pipe Line 4111.08, (12" Dia)	5028.00	LF	31,040	3,720	34,760	6.91
09.19.20.21 Pipe Line 4111.09, (36" Dia)	3892.00	LF	369,610	44,350	413,960	106.36
09.19.20.22 Pipe Line 4111.091(12"21"27"Dia)	17454.00	LF	376,560	45,190	421,740	24.16
09.19.20.23 Pipe Line 4111.0911, (21" Dia)	1491.00	LF	27,580	3,310	30,890	20.72
09.19.20.24 Pipe Line 4111.0912, (15" Dia)	2654.00	LF	25,700	3,080	28,790	10.85
09.19.20.25 Pipe Line 4111.092, (21" Dia)	12732.00	LF	245,170	29,420	274,590	21.57
09.19.20.26 Pipe Line 4112.01, (12" Dia)	8013.00	LF	60,900	7,310	68,210	8.51
09.19.20.27 Pipe Line 4112.02, (12" Dia)	8820.00	LF	65,810	7,900	73,710	8.36
09.19.20.28 Pipe Line 4112.03, (18" Dia)	13233.00	LF	212,370	25,480	237,860	17.97
09.19.20.29 Pipe Line 4112.04, (12" Dia)	2839.00	LF	23,210	2,780	25,990	9.16
09.19.20.30 Pipe Line 4112.05, (21"&36" Dia)	18433.00	LF	1,524,090	182,890	1,706,990	92.60

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09.19.20.31	Pipe Line 4112.051,	(24" Dia)	5260.00 LF	130,000	15,600	145,600	27.68	
09.19.20.33	Pipe Line 4112.06,	(12" & 18" Dia)	13560.00 LF	174,750	20,970	195,730	14.43	
09.19.20.34	Pipe Line 4112.061,	(12" Dia)	3902.00 LF	29,770	3,570	33,340	8.54	
09.19.20.35	Pipe Line 4112.062,	(12" Dia)	665.00 LF	9,860	1,180	11,040	16.61	
09.19.20.37	Pipe Line 4112.063,	(12" Dia)	4597.00 LF	28,380	3,410	31,780	6.91	
09.19.20.38	Pipe Line 4112.07,	(30" & 36" Dia)	11315.00 LF	925,100	111,010	1,036,110	91.57	
09.19.20.39	Pipe Line 4112.071,	(18" Dia)	924.00 LF	21,270	2,550	23,820	25.78	
09.19.20.40	Pipe Line 4112.072,	(18" Dia)	2446.00 LF	42,200	5,060	47,270	19.32	
09.19.20.41	Pipe Line 4113.01,	(36" Dia)	15895.00 LF	1,472,180	176,660	1,648,840	103.73	
09.19.20.42	Pipe Line 4113.011,	(18" Dia)	3967.00 LF	61,830	7,420	69,250	17.46	
09.19.20.43	Pipe Line 4113.012,	(24" Dia)	2614.00 LF	69,030	8,280	77,310	29.57	
09.19.20.44	Pipe Line 4113.013,	(18" & 24" Dia)	7627.00 LF	180,010	21,600	201,610	26.43	
09.19.20.45	Pipe Line 4113.0131,	(12" Dia)	1299.00 LF	8,020	960	8,980	6.91	
09.19.20.46	Pipe Line 4113.0132,	(12" Dia)	10599.00 LF	71,190	8,540	79,730	7.52	
TOTAL Pipe Lines				291887.00 LF	8,244,190	989,300	9,233,490	31.63
09.19.25 Pumps								
09.19.25.01	Pumps P4000.01	15		140,790	16,890	157,680		
09.19.25.02	Pumps P4100.01	7.5		116,970	14,040	131,000		
09.19.25.04	Relift Pumps P4111	10		138,210	16,590	154,790		
09.19.25.05	Relift Pumps 4112	40		221,210	26,540	247,750		
09.19.25.06	Pumps P4110.01	10		129,700	15,560	145,270		
09.19.25.10	Pumps P4110.02	20		140,790	16,890	157,680		
09.19.25.12	Pumps P4111.01	3		101,110	12,130	113,250		
09.19.25.13	Pumps P4111.02	0.75		101,110	12,130	113,250		
09.19.25.16	Pumps P4111.05	0.75		101,110	12,130	113,250		
09.19.25.17	Pumps P4111.06	1		101,110	12,130	113,250		
09.19.25.19	Pumps P4111.07	3		101,110	12,130	113,250		
09.19.25.20	Pumps P4111.08	0.75		101,110	12,130	113,250		
09.19.25.21	Pumps P4111.09	60		210,220	25,230	235,440		
09.19.25.26	Pumps P4112.01	5		101,110	12,130	113,250		
09.19.25.27	Pumps P4112.02	0.75		101,110	12,130	113,250		
09.19.25.28	Pumps P4112.03	15		140,790	16,890	157,680		
09.19.25.29	Pumps P4112.04	3		101,110	12,130	113,250		
09.19.25.30	Pumps P4112.05	20		140,790	16,890	157,680		
09.19.25.38	Pumps P4112.07	25		148,360	17,800	166,170		
09.19.25.41	Pumps P4113.01	85		243,490	29,220	272,700		
TOTAL Pumps				20.00 EA	2,681,340	321,760	3,003,100	150155.13
09.19.30 Check Structures								
09.19.30.01	Check Structure C-4111.1		1.00 EA	889,950	106,790	996,750	996745.01	
TOTAL Check Structures				1.00 EA	889,950	106,790	996,750	996745.01

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09.19.40 Weirs							
09.19.40.01	Weir, 4110.01	1.00	EA	19,510	2,340	21,850	21848.71
09.19.40.03	Weir, 4110.02	1.00	EA	17,980	2,160	20,130	20132.42
TOTAL Weirs		2.00	EA	37,480	4,500	41,980	20990.57
09.19.50 Inverted Siphons							
09.19.50.01	Siphon, 4000-01, 3 each, 48" Dia	126.00	LF	92,620	11,110	103,730	823.29
09.19.50.02	Siphon, 4111-02, 2 each, 42" Dia	183.00	LF	68,680	8,240	76,920	420.31
09.19.50.03	Siphon, 4111-03, 2 each, 54" Dia	149.00	LF	84,930	10,190	95,120	638.40
09.19.50.04	Siphon, 4112-01, 1 each, 52" Dia	126.00	LF	39,410	4,730	44,140	350.32
09.19.50.05	Siphon, 4112-02, 1 each, 84" Dia	260.00	LF	141,750	17,010	158,760	610.60
09.19.50.06	Siphon, 4112-03, 3 each, 54" Dia	126.00	LF	112,780	13,530	126,310	1002.48
09.19.50.07	Siphon, 4112-04, 2 each, 36" Dia	240.00	LF	62,530	7,500	70,030	291.79
09.19.50.08	Siphon, 4112-05, 2 each, 24" Dia	126.00	LF	21,000	2,520	23,520	186.70
09.19.50.09	Siphon, 4112-06, 2 each, 90" Dia	345.00	LF	391,690	47,000	438,690	1271.58
09.19.50.10	Siphon, 4112-07, 3 each, 90" Dia	224.00	LF	419,760	50,370	470,130	2098.79
09.19.50.11	Siphon, 4112-08, 3 each, 90" Dia	336.00	LF	571,580	68,590	640,170	1905.26
09.19.50.12	Siphon, 4112-09, 4 each, 96" Dia	379.00	LF	949,030	113,880	1,062,920	2804.53
09.19.50.13	Siphon, 4113-01, 2 each, 96" Dia	170.00	LF	265,600	31,870	297,470	1749.82
TOTAL Inverted Siphons		13.00	EA	3,221,350	386,560	3,607,910	277531.53
09.19.60 Gatewell Turnout Structures							
09.19.60.11	T-4113, C to C, 48" Db1 Gatewell	1.00	EA	261,700	31,400	293,100	293101.52
TOTAL Gatewell Turnout Structures		1.00	EA	261,700	31,400	293,100	293101.52
09.19.65 Existing Channel Improvement							
09.19.65.01	Chan Excav Rickey Branch ID 4110 283513.00 CY			480,650	57,680	538,330	1.90
TOTAL Existing Channel Improvement				480,650	57,680	538,330	
09.19.70 New Canal Landowner Takeoffs							
09.19.70.05	Excavation for Pipe	3502.46	CY	3,850	460	4,310	1.23
09.19.70.10	Place Pipe Bedding	95.00	CY	1,590	190	1,780	18.72
09.19.70.15	Install 24" Pipe	1900.00	LF	205,930	24,710	230,640	121.39
09.19.70.20	24" Dresser Couplng @ Intake Str	38.00	EA	29,880	3,590	33,470	880.66
09.19.70.25	Intake Structure for 24" Pipe	38.00	EA	59,930	7,190	67,120	1766.43
09.19.70.30	24" Intake Bar Screen	15770.00	LBS	46,400	5,570	51,970	3.30
09.19.70.35	24" Gate Valve	38.00	EA	375,300	45,040	420,340	11061.61
09.19.70.40	Valve box	38.00	EA	2,390	290	2,680	70.55

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09.19.70.45	Excavate for pumpwell	3420.00 CY	4,170	500	4,670	1.37
09.19.70.50	Install 24" Pumpwell	38.00 EA	166,360	19,960	186,330	4903.35
09.19.70.55	24" Dresser Coupling @ Pumpwell	38.00 EA	29,880	3,590	33,470	880.66
09.19.70.60	Backfill and Compaction	6840.00 CY	14,790	1,780	16,570	2.42
09.19.70.70	Flow Meter, Purchase Cost	38.00 EA	36,060	4,330	40,390	1062.81
TOTAL New Canal Landowner Takeoffs		38.00 EA	976,540	117,190	1,093,730	28782.31
09.19.75 Existing Canal Landowner Takeoff						
09.19.75.05	Excavation for Pipe	333.00 CY	370	40	410	1.23
09.19.75.10	Place Pipe Bedding	9.00 CY	150	20	170	18.72
09.19.75.15	Install 24" Pipe	180.00 LF	19,510	2,340	21,850	121.39
09.19.75.20	24" Dresser Coupling @ Intake Str	9.00 EA	7,080	850	7,930	880.66
09.19.75.25	Intake Structure for 24" Pipe	9.00 EA	14,190	1,700	15,900	1766.43
09.19.75.30	24" Intake Bar Screen	3735.00 LBS	10,990	1,320	12,310	3.30
09.19.75.35	24" Gate Valve	9.00 EA	88,890	10,670	99,550	11061.61
09.19.75.40	Valve box	9.00 EA	570	70	630	70.55
09.19.75.45	Excavate for pumpwell	810.00 CY	990	120	1,110	1.37
09.19.75.50	Install 24" Pumpwell	9.00 EA	39,400	4,730	44,130	4903.35
09.19.75.55	24" Dresser Coupling @ Pumpwell	9.00 EA	7,080	850	7,930	880.66
09.19.75.60	Backfill and Compaction	648.00 CY	1,400	170	1,570	2.42
09.19.75.70	Flow Meter, Purchase Cost	9.00 EA	8,540	1,020	9,570	1062.81
TOTAL Existing Canal Landowner Takeoff		9.00 EA	199,150	23,900	223,050	24783.10
09.19.80 Pipeline Landowner Takeoffs						
09.19.80.05	Excavation for Pipe	888.00 CY	980	120	1,090	1.23
09.19.80.10	Place Pipe Bedding	27.38 CY	460	50	510	18.72
09.19.80.15	Install 12" DI Pipe	740.00 LF	22,790	2,730	25,520	34.49
09.19.80.20	12" Dresser Coupling @ Intake Str	74.00 EA	32,040	3,840	35,880	484.87
09.19.80.25	Intake Structure for 12" Pipe	74.00 EA	80,140	9,620	89,750	1212.86
09.19.80.30	12" Intake Bar Screen	19906.00 LBS	58,570	7,030	65,600	3.30
09.19.80.35	12" Gate Valve	74.00 EA	149,690	17,960	167,650	2265.57
09.19.80.40	Valve box	74.00 EA	4,660	560	5,220	70.55
09.19.80.45	Excavate for pumpwell	6660.00 CY	8,130	980	9,100	1.37
09.19.80.50	Install 24" Pumpwell	74.00 EA	323,970	38,880	362,850	4903.35
09.19.80.55	12" Dresser Coupling @ Pumpwell	74.00 EA	32,040	3,840	35,880	484.87
09.19.80.60	Backfill and Compaction	7548.00 CY	16,320	1,960	18,280	2.42
09.19.80.70	Flow Meter, Purchase Cost	74.00 EA	70,220	8,430	78,650	1062.81
TOTAL Pipeline Landowner Takeoffs		74.00 EA	799,990	96,000	895,990	12107.99
09.19.85 24" CMP Drop Structures						
09.19.85.05	Excavate Trench	370.37 CY	550	70	620	1.67
09.19.85.10	Hand Trim Bottom of Trench	2000.00 SF	530	60	600	0.30

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09.19.85.15	Install 24" CMP	10.00 EA	15,160	1,820	16,980	1697.64
09.19.85.20	Backfill & Compact 1/2 Pipe Dia	74.07 CY	200	20	220	3.03
09.19.85.25	Backfill & Compact to Grade	296.30 CY	180	20	200	0.67
TOTAL 24" CMP Drop Structures		10.00 EA	16,620	1,990	18,620	1861.59
TOTAL Canals Contract Area 17		1.00 EA	19,107,760	2,292,930	21,400,700	21400696
09.80	On Farm Cost		65,000,000	0	65,000,000	
TOTAL Channels and Canals		1.00 EA	223,214,890	18985790	242,200,670	242200675
13 Pumping Plants						
13.05 Pump.Plant-P1000R-1750cfsCA01 P1						
13.05.01 Mob, Demob & Preparatory Work						
13.05.01.05	Mobilization and Demobilization		62,990	7,560	70,550	
13.05.01.11	Enviromental Protection		5,420	650	6,070	
TOTAL Mob, Demob & Preparatory Work			68,410	8,210	76,620	
13.05.02 Site Work						
13.05.02.05	Walk/Roads/Parking Paving		278,430	33,410	311,840	
13.05.02.10	Riprap, Filter Stone & Fabric		80,570	9,670	90,240	
13.05.02.15	Storm Drainage		34,020	4,080	38,100	
13.05.02.20	Staff Gages		3,150	380	3,530	
13.05.02.25	Piezometers		6,930	830	7,760	
13.05.02.30	8' Chain Link Fence		44,100	5,290	49,390	
13.05.02.35	Landscaping		26,460	3,170	29,630	
13.05.02.60	Sheet Pile, Pumphouse Substruct	1000.00 SF	18,200	2,180	20,390	20.39
TOTAL Site Work			491,860	59,020	550,880	
13.05.03 Care and Diversion of Water						
13.05.03.05	Site Work (Cofferdam)		219,220	26,310	245,520	
13.05.03.10	Dewatering		807,580	96,910	904,490	
TOTAL Care and Diversion of Water			1,026,800	123,220	1,150,010	
13.05.05 Gated Control Structure (Concr)						
13.05.05.05	Reinforced Concrete	1220.00 CY	378,900	45,470	424,370	347.85

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TOTAL Gated Control Structure (Concr)		378,900	45,470	424,370	
13.05.06 Outlet Work (Concrete)					
13.05.06.05 Reinforced Concrete	1220.00 CY	137,990	16,560	154,550	126.68
TOTAL Outlet Work (Concrete)		137,990	16,560	154,550	
13.05.10 Earthwork for Structures					
13.05.10.02 Site Work		532,770	63,930	596,700	
TOTAL Earthwork for Structures		532,770	63,930	596,700	
13.05.18 Utilities					
13.05.18.15 Mechanical		72,810	8,740	81,540	
13.05.18.16 Electrical		2,000,000	240,000	2,240,000	
TOTAL Utilities		2,072,810	248,740	2,321,540	
13.05.74 Substructure (Concrete)					
13.05.74.05 Reinforced Concrete	5602.00 CY	1,921,000	230,520	2,151,520	384.06
TOTAL Substructure (Concrete)	5602.00 CY	1,921,000	230,520	2,151,520	384.06
13.05.75 Superstructure					
13.05.75.03 Reinforced Concrete	1099.00 CY	579,140	69,500	648,630	590.20
13.05.75.04 Masonry		228,040	27,360	255,400	
13.05.75.05 Metals		1,166,390	139,970	1,306,360	
13.05.75.06 Wood and Plastics		2,520	300	2,820	
13.05.75.07 Thermal and Moisture Protection		17,390	2,090	19,470	
13.05.75.08 Doors and Windows		10,360	1,240	11,610	
13.05.75.09 Finishes		57,740	6,930	64,670	
13.05.75.10 Specialties		3,150	380	3,530	
13.05.75.11 Equipment		1,233,160	147,980	1,381,140	
13.05.75.15 Mechanical		429,990	51,600	481,590	
13.05.75.17 Electrical		674,020	80,880	754,900	
TOTAL Superstructure		4,401,900	528,230	4,930,130	
13.05.76 Pumping Machinery & Appurtenance					

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13.05.76.15 Mechanical			3,974,530	476,940	4,451,480	
13.05.76.16 Electrical			1,222,750	146,730	1,369,490	
TOTAL Pumping Machinery & Appurtenance			5,197,290	623,670	5,820,960	
13.05.77 Gates and Valves						
13.05.77.15 Mechanical			1,444,480	173,340	1,617,820	
TOTAL Gates and Valves			1,444,480	173,340	1,617,820	
13.05.78 Auxiliary Equipment						
13.05.78.14 Conveying Systems			713,500	85,620	799,120	
TOTAL Auxiliary Equipment			713,500	85,620	799,120	
TOTAL Pump.Plant-P1000R-1750cfsCA01 P1	1.00	EA	18,387,700	2,206,520	20,594,230	20594228
13.12 Pump.Plant-P-2000R-625cfsCA08 P2						
13.12.10 Civil						
13.12.10.10 Mobilization & Demobilization			31,500	3,780	35,280	
13.12.10.15 Clearing and Grubbing	1.00	EA	18,900	2,270	21,170	21165.88
13.12.10.20 Asphalt Road	1.00	EA	50,390	6,050	56,440	56442.36
13.12.10.25 Dewatering			314,970	37,800	352,760	
13.12.10.30 Cofferdam			125,990	15,120	141,110	
13.12.10.35 Structural Excavation	2830.00	CY	8,910	1,070	9,980	3.53
13.12.10.40 Random Backfill	1880.00	CY	7,110	850	7,960	4.23
13.12.10.45 Granular Backfill	3000.00	CY	37,800	4,540	42,330	14.11
TOTAL Civil	1.00	EA	595,560	71,470	667,030	667028.70
13.12.20 Structural Superstructure						
13.12.20.10 Prefabricated Building			62,990	7,560	70,550	
TOTAL Structural Superstructure	1.00	EA	62,990	7,560	70,550	70552.94
13.12.22 Structural Substructure						
13.12.22.10 Reinforced Concrete	752.00	CY	331,600	39,790	371,390	493.87
13.12.22.20 Miscellaneous Metals			6,300	760	7,060	
TOTAL Structural Substructure	1.00	EA	337,900	40,550	378,450	378445.99

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13.12.30	Mechanical						
13.12.30.10	54"Drop-in Subm. Pump(1)	5.00	EA	1,354,200	162,500	1,516,700	303340.74
13.12.30.15	Discharge Pipe 48" Diameter	180.00	LF	89,120	10,690	99,810	554.49
13.12.30.20	Dressor Coupling - 48" diamter	25.00	EA	29,850	3,580	33,430	1337.31
13.12.30.25	Flexible Check Valve	5.00	EA	127,410	15,290	142,700	28540.12
13.12.30.30	Trash Racks	5.00	EA	218,420	26,210	244,630	48925.93
13.12.30.35	Portable Dewatering Pump	1.00	EA	7,280	870	8,150	8154.32
13.12.30.40	Heat/Air Conditioning	1.00	EA	4,370	520	4,890	4892.59
	TOTAL Mechanical	1.00	EA	1,830,650	219,680	2,050,320	2050322
13.12.40	Electrical						
13.12.40.10	Lighting			19,370	2,320	21,690	
13.12.40.13	Grounding System			12,960	1,560	14,510	
13.12.40.15	Wire and Cable			26,680	3,200	29,880	
13.12.40.18	Electrical Tubing and Fittings			37,610	4,510	42,130	
13.12.40.20	Transformers			23,730	2,850	26,580	
13.12.40.25	460 Volt Motor Control Center			385,150	46,220	431,360	
13.12.40.30	Distribution Panel & Breakers			13,180	1,580	14,760	
13.12.40.35	Safety Switches			19,660	2,360	22,020	
13.12.40.40	Water Level Sensors			11,650	1,400	13,050	
13.12.40.45	Communications			3,200	380	3,590	
13.12.40.50	Automatic Controls			41,500	4,980	46,480	
13.12.40.55	Lightning Protection			18,930	2,270	21,200	
13.12.40.60	Substation and Transmission Line			214,000	25,680	239,680	
13.12.40.65	Miscellaneous			231,310	27,760	259,060	
	TOTAL Electrical	1.00	EA	1,058,920	127,070	1,185,990	1185989
	TOTAL Pump.Plant-P-2000R-625cfsCA08 P2	1.00	EA	3,886,020	466,320	4,352,340	4352339
13.16	Pump.Plant-P-3000R-260cfsCA14 P3						
13.16.10	Civil						
13.16.10.10	Mobilization & Demobilization			31,500	3,780	35,280	
13.16.10.15	Clearing and Grubbing			18,900	2,270	21,170	
13.16.10.20	Asphalt Road			50,390	6,050	56,440	
13.16.10.25	Dewatering			314,970	37,800	352,760	
13.16.10.30	Cofferdam			125,990	15,120	141,110	
13.16.10.35	Structural Excavation	2400.00	CY	7,560	910	8,470	3.53
13.16.10.40	Ramdom Backfill	1780.00	CY	6,730	810	7,540	4.23
13.16.10.45	Granular Backfill	500.00	CY	6,300	760	7,060	14.11
	TOTAL Civil	1.00	EA	562,330	67,480	629,810	629812.02

LABOR ID: BMLABR

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
13.16.20 Structural-Superstructure						
13.16.20.10 Prefabricated Building			62,990	7,560	70,550	
TOTAL Structural Superstructure	1.00	EA	62,990	7,560	70,550	70552.94
13.16.22 Structural Substructure						
13.16.22.10 Reinforced Concrete	370.00	CY	163,150	19,580	182,730	493.87
13.16.22.20 Miscellaneous Metals			6,300	760	7,060	
TOTAL Structural Substructure	1.00	EA	169,450	20,330	189,790	189787.42
13.16.30 Mechanical						
13.16.30.10 48"Drop-in Subm. Pump(1)	3.00	EA	441,210	52,940	494,150	164717.28
13.16.30.15 Discharge Pipe 60" Diameter	270.00	LF	47,180	5,660	52,840	195.70
13.16.30.30 Trash Racks	3.00	EA	131,050	15,730	146,780	48925.93
13.16.30.35 Portable Dewatering Pump	1.00	EA	7,280	870	8,150	8154.32
13.16.30.40 Heat/Air Conditioning			4,370	520	4,890	
TOTAL Mechanical	1.00	EA	631,090	75,730	706,820	706816.53
13.16.40 Electrical						
13.16.40.10 Lighting			13,980	1,680	15,660	
13.16.40.13 Grounding System			7,570	910	8,480	
13.16.40.15 Wire and Cable			27,960	3,350	31,310	
13.16.40.18 Electrical Tubing and Fittings			32,220	3,870	36,090	
13.16.40.20 Transformers			18,350	2,200	20,550	
13.16.40.25 460 Volt Motor Control Center			91,740	11,010	102,740	
13.16.40.30 Distribution Panel & Breakers			7,790	930	8,730	
13.16.40.35 Safety Switches			14,270	1,710	15,980	
13.16.40.40 Water Level Sensors			11,650	1,400	13,050	
13.16.40.45 Communications			3,200	380	3,590	
13.16.40.50 Automatic Controls			28,830	3,460	32,290	
13.16.40.55 Lightning Protection			13,540	1,630	15,170	
13.16.40.60 Substation and Transmission Line			213,700	25,640	239,340	
13.16.40.65 Miscellaneous			145,570	17,470	163,040	
TOTAL Electrical	1.00	EA	630,370	75,640	706,020	706015.78
TOTAL Pump.Plant-P-3000R-260cfsCA14 P3	1.00	EA	2,056,240	246,750	2,302,980	2302985
13.22 Pump.Plant-P-2140R-125cfsCA05 P4						
13.22.10 Civil						

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13.22.10.10	Mobilization & Demobilization		31,500	3,780	35,280	
13.22.10.15	Clearing and Grubbing		18,900	2,270	21,170	
13.22.10.20	Asphalt Road		50,390	6,050	56,440	
13.22.10.25	Dewatering		314,970	37,800	352,760	
13.22.10.30	Cofferdam		125,990	15,120	141,110	
13.22.10.35	Structural Excavation	1400.00 CY	4,410	530	4,940	3.53
13.22.10.40	Random Backfill	1010.00 CY	3,820	460	4,280	4.23
13.22.10.45	Granular Backfill	500.00 CY	6,300	760	7,060	14.11
TOTAL Civil		1.00 EA	556,270	66,750	623,020	623024.83
13.22.20 Structural Superstructure						
13.22.20.10	Prefabricated Building		37,800	4,540	42,330	
TOTAL Structural Superstructure		1.00 EA	37,800	4,540	42,330	42331.77
13.22.22 Structural Substructure						
13.22.22.10	Reinforced Concrete	240.00 CY	105,830	12,700	118,530	493.87
13.22.22.20	Miscellaneous Metals		6,300	760	7,060	
TOTAL Structural Substructure		1.00 EA	112,130	13,460	125,580	125584.24
13.22.30 Mechanical						
13.22.30.10	40"Drop-in Subm. Pump(1)	3.00 EA	262,100	31,450	293,560	97851.85
13.22.30.15	Discharge Pipe 42" Diameter	120.00 LF	16,770	2,010	18,790	156.56
13.22.30.30	Trash Racks	3.00 EA	131,050	15,730	146,780	48925.93
13.22.30.35	Portable Dewatering Pump	1.00 EA	7,280	870	8,150	8154.32
13.22.30.40	Heat/Air Conditioning	1.00 EA	4,370	520	4,890	4892.59
TOTAL Mechanical		1.00 EA	421,580	50,590	472,170	472167.80
13.22.40 Electrical						
13.22.40.10	Lighting		13,980	1,680	15,660	
13.22.40.13	Grounding System		7,570	910	8,480	
13.22.40.15	Wire and Cable		15,580	1,870	17,450	
13.22.40.18	Electrical Tubing and Fittings		32,220	3,870	36,090	
13.22.40.20	Transformers		18,350	2,200	20,550	
13.22.40.25	Motor Control Center		54,020	6,480	60,510	
13.22.40.30	Distribution Panel & Breakers		7,790	930	8,730	
13.22.40.35	Safety Switches		14,270	1,710	15,980	
13.22.40.40	Water Level Sensors		11,650	1,400	13,050	
13.22.40.45	Communications		3,200	380	3,590	
13.22.40.50	Automatic Controls		28,830	3,460	32,290	

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
13.22.40.55 Lightning Protection			13,540	1,630	15,170	
13.22.40.60 Substation and Transmission Line			466,700	56,000	522,700	
13.22.40.65 Miscellaneous			145,570	17,470	163,040	
TOTAL Electrical	1.00	EA	833,280	99,990	933,270	933274.06
TOTAL Pump.Plant-P-2140R-125cfsCA05 P4	1.00	EA	1,961,060	235,330	2,196,380	2196383
TOTAL Pumping Plants	1.00	EA	26,291,010	3,154,920	29,445,930	29445934
19 Buildings,Grounds, & Utilities						
19.05 SITE WORK --OPER. & MAINT. BLDGS						
19.05.05 Clearing and Grubbing	5.40	AC	3,990	480	4,460	826.63
19.05.10 Top Soil Removal (4 inches)	2886.00	CY	2,350	280	2,640	0.91
19.05.15 Aggregate Base Course, Class &						
19.05.15.05 Aggr Base Course, Unpaved Sto A.	3070.00	TON	60,460	7,260	67,720	22.06
19.05.15.10 Aggr Base Course, Under Asphalt	2585.00	TON	50,910	6,110	57,020	22.06
19.05.15.15 Aggr Base Course, Under 8" Conc	458.00	TON	9,020	1,080	10,100	22.06
19.05.15.20 Aggr Base Course, Under Sidewalk	377.00	TON	7,420	890	8,320	22.06
TOTAL Aggregate Base Course, Class &	6490.00	TON	127,810	15,340	143,150	22.06
19.05.20 ACHM 3-1/2" Binder Course	1033.00	TON	40,060	4,810	44,870	43.44
19.05.25 ACHM 1-1/2" Surface Course	443.00	TON	19,300	2,320	21,620	48.80
19.05.30 Concrete Curb and Gutter						
19.05.30.05 Concrete Curb and Gutter	1808.00	LF	32,080	3,850	35,930	19.87
TOTAL Concrete Curb and Gutter	1808.00	LF	32,080	3,850	35,930	19.87
19.05.35 Conc Curb btw Pkg Lot & Sidewalk						
19.05.35.05 Conc Curb btw Pkg Lot & Sidewalk	290.00	LF	5,960	720	6,680	23.03
TOTAL Conc Curb btw Pkg Lot & Sidewalk	290.00	LF	5,960	720	6,680	23.03
19.05.40 8" Concrete Pavement						
19.05.40.05 Forming	1425.00	LF	3,780	450	4,240	2.97
19.05.40.10 Curved (Radius) Forming	126.00	LF	400	50	450	3.59
19.05.40.15 Key Forming, 4"	371.00	LF	1,110	130	1,240	3.35
19.05.40.20 Rebar	17.00	TON	21,100	2,530	23,630	1389.84
19.05.40.25 Place Concrete	251.00	CY	23,460	2,820	26,280	104.68

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		QUANTITY UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
19.05.40.30	Broom Finish	10152.00 SF	3,900	470	4,370	0.43
19.05.40.35	Membrane Cure Finished Surfaces	102.00 CSF	490	60	550	5.34
TOTAL 8" Concrete Pavement		844.00 SY	54,240	6,510	60,750	71.98
19.05.45 6" Concrete Pavement						
19.05.45.05	Forming	350.00 LF	790	90	880	2.52
19.05.45.15	Key Forming, 4"	120.00 LF	360	40	400	3.35
19.05.45.20	Rebar	3.00 TON	3,720	450	4,170	1389.84
19.05.45.25	Place Concrete	43.00 CY	4,090	490	4,580	106.48
19.05.45.30	Broom Finish	2300.00 SF	880	110	990	0.43
19.05.45.35	Membrane Cure Finished Surfaces	23.00 CSF	110	10	120	5.34
TOTAL 6" Concrete Pavement		116.00 SY	9,950	1,190	11,140	96.08
19.05.50 Excavation and Backfill						
19.05.50.05	Excavation	200.00 CY	170	20	190	0.96
19.05.50.10	Backfill Around Structures	1944.00 CY	1,610	190	1,800	0.93
19.05.50.15	Compaction	1944.00 CY	1,990	240	2,230	1.15
TOTAL Excavation and Backfill		200.00 CY	3,770	450	4,220	21.10
19.05.55 4" Concrete Sidewalks						
19.05.55.05	Forming	3183.00 LF	3,730	450	4,170	1.31
19.05.55.10	Reinforcing Steel	4140.00 SF	18,130	2,180	20,310	4.91
19.05.55.15	Concrete Placement	100.00 CY	9,830	1,180	11,010	110.07
19.05.55.20	Broom Finish	8064.00 SF	3,100	370	3,470	0.43
19.05.55.25	Membrane Cure Finished Surfaces	81.00 CSF	390	50	430	5.34
TOTAL 4" Concrete Sidewalks		460.00 SY	35,170	4,220	39,390	85.64
19.05.60 Reflectorized Paint Pvmt Marking						
19.05.60.05	Parking Lots	1045.00 LF	240	30	270	0.26
19.05.60.10	Bus Stalls, 5 each	75.00 LF	20	0	20	0.26
19.05.60.15	Handicapped Stalls, 3 each	105.00 LF	20	0	30	0.26
19.05.60.20	Other (@ End of Bus Stall)	85.00 LF	20	0	20	0.26
TOTAL Reflectorized Paint Pvmt Marking		1310.00 LF	300	40	340	0.26
19.05.62	Handicapped Parking Signs	3.00 EA	190	20	210	69.47
19.05.64	6' Chain Link Fence	1210.00 LF	18,770	2,250	21,020	17.38
19.05.66 Gates						

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
19.05.66.05 Gate	32.00	LF	4,740	570	5,310	165.84
19.05.66.10 Gate	30.00	LF	4,440	530	4,980	165.84
19.05.66.15 Motor Operators	2.00	EA	10,330	1,240	11,570	5786.51
TOTAL Gates	2.00	EA	19,510	2,340	21,850	10927.44
19.05.68 Fueling System						
19.05.68.05 Fueling System	1.00	EA	60	10	70	69.95
19.05.68.10 Form Slab	66.00	SF	200	20	230	3.41
19.05.68.15 Form Walls	650.00	SF	2,690	320	3,010	4.63
19.05.68.20 Curved Forms for Pipe Openings	32.00	SF	290	40	330	10.32
19.05.68.25 Install Rebar	2.75	TON	3,270	390	3,660	1331.62
19.05.68.30 Place Concrete & Finish SOG	10.00	CY	950	110	1,060	106.46
19.05.68.35 Place Concrete & Finish in Walls	12.00	CY	1,340	160	1,500	125.21
19.05.68.40 Inst 3/4" Anchor Bolts	8.00	EA	30	0	30	4.07
19.05.68.45 Form Removal	750.00	SF	630	80	700	0.94
19.05.68.50 Patch Finish	650.00	SF	310	40	350	0.54
TOTAL Fueling System	1.00	EA	9,780	1,170	10,950	10951.94
19.05.70 Fuel Storage Tanks (20,000 Gal)						
19.05.70.05 Fuel Storage Tanks	2.00	EA	32,880	3,950	36,830	18412.90
TOTAL Fuel Storage Tanks (20,000 Gal)	2.00	EA	32,880	3,950	36,830	18412.90
19.05.72 Trees						
19.05.72.05 Trees	44.00	EA	40,200	4,820	45,030	1023.36
TOTAL Trees	44.00	EA	40,200	4,820	45,030	1023.36
19.05.74 Bushes						
19.05.74.05 Bushes	93.00	EA	2,560	310	2,870	30.84
TOTAL Bushes	93.00	EA	2,560	310	2,870	30.84
19.05.76 Solid Sodding (Bermuda)						
19.05.76.05 Top Soil	288.00	CY	750	90	840	2.93
19.05.76.10 Top Dress by Hand	23301.00	SF	700	80	780	0.03
19.05.76.15 Fertilize, Roto-till in	2589.00	SY	780	90	880	0.34
19.05.76.20 Solid Sodding (Bermuda)	2589.00	SY	4,490	540	5,030	1.94

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19.05.76.25 Water	23.30 MSF	80	10	90	3.74
TOTAL Solid Sodding (Bermuda)	2589.00 SY	6,810	820	7,620	2.94
19.05.78 Seeding					
19.05.78.05 Seeding	15255.00 SF	8,410	1,010	9,420	0.62
19.05.78.15 Installation	4120.00 LBS	4,420	530	4,950	1.20
TOTAL Seeding	1695.00 SY	12,830	1,540	14,360	8.47
19.05.80 Flag Poles					
19.05.80.05 Flag Poles	2.00 EA	6,450	770	7,220	3611.07
TOTAL Flag Poles	2.00 EA	6,450	770	7,220	3611.07
19.05.82 Plumbing, Water & Sewer					
19.05.82.05 Sewer Line, 4"	450.00 LF	3,110	370	3,490	7.75
19.05.82.10 Water Line, 1"	800.00 LF	1,670	200	1,870	2.34
TOTAL Plumbing, Water & Sewer	1.00 EA	4,780	570	5,360	5355.52
19.05.84 Geotextile, Riprap & Bedding					
19.05.84.05 Geotextile	247.00 SY	650	80	720	2.93
19.05.84.10 Bedding	42.00 CY	1,210	150	1,360	32.29
19.05.84.15 R90 Riprap	113.00 CY	5,100	610	5,720	50.59
TOTAL Geotextile, Riprap & Bedding	105.00 TON	6,960	840	7,800	74.26
19.05.86 Lay 48" RCP					
19.05.86.05 Downstream Conduit, 48" RCP	52.00 LF	7,890	950	8,840	169.97
19.05.86.10 Upstream Conduit, 42" RCP	80.00 LF	12,140	1,460	13,600	169.97
TOTAL Lay 48" RCP	132.00 LF	20,030	2,400	22,440	169.97
19.05.88 Canal Gate					
19.05.88.05 48" Canal Gate	2.00 EA	16,470	1,980	18,440	9220.94
19.05.88.10 Motorized Operator	2.00 EA	2,710	330	3,040	1518.30
TOTAL Canal Gate	2.00 EA	19,180	2,300	21,480	10739.24

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19.05.90 Metal Work						
19.05.90. 1	Grating, 8' x 4.5'	72.00 SF	930	110	1,040	14.44
19.05.90. 2	Embedded Metal	288.00 LBS	740	90	820	2.86
TOTAL Metal Work		1.00 EA	1,660	200	1,860	1864.29

19.05.92 Outlet Structure for 48" Pipe						
19.05.92.05	Excavate for Toe	1.70 CY	30	0	30	20.58
19.05.92.10	Prepare Subbase	396.00 SF	100	10	110	0.29
19.05.92.15	Form Slab	80.00 SF	240	30	270	3.41
19.05.92.20	Form Walls	570.00 SF	2,360	280	2,640	4.63
19.05.92.25	Curved Forms for Pipe Openings	32.00 SF	290	40	330	10.32
19.05.92.30	Install Rebar	3.00 TON	3,570	430	3,990	1331.62
19.05.92.35	Place & Finish Conc Toe & SOG	16.50 CY	1,570	190	1,760	106.48
19.05.92.40	Place & Finish Concrete in Walls	10.50 CY	1,170	140	1,310	125.21
19.05.92.45	Form Removal	682.00 SF	570	70	640	0.93
19.05.92.50	Patch Finish	570.00 SF	270	30	310	0.54
19.05.92.55	Spray Membrane Cure Exposed Surf	3.00 CSF	20	0	30	8.81
TOTAL Outlet Structure for 48" Pipe		1.00 EA	10,210	1,220	11,430	11430.32

19.05.94 Stilling Wells						
19.05.94.05	Stilling Well Outlet	2.00 EA	4,320	520	4,840	2420.25
19.05.94.10	4" Sch 80 PVC	2.00 EA	2,500	300	2,800	1398.59
19.05.94.15	12" Sch 80 PVC	2.00 EA	1,070	130	1,200	599.92
19.05.94.20	12" to 4" Sch 80 PVC Reducer	2.00 EA	160	20	180	91.14
19.05.94.25	Concrete Mounting Pad	2.00 EA	410	50	460	229.88
19.05.94.30	Geotextile, Riprap & Bedding	52.50 TON	3,480	420	3,900	74.23
TOTAL Stilling Wells		2.00 EA	11,940	1,430	13,380	6688.36

19.05.96 Electrical Work, 03/14/01						
19.05.96.04	Incoming System	1.00 EA	12,480	1,500	13,980	13980.30
19.05.96.10	Electrical Enclosure, 14 gage SS	1.00 EA	17,820	2,140	19,960	19960.37
19.05.96.15	Gate Actuator	1.00 EA	1,610	190	1,800	1799.73
19.05.96.19	Flow Meters, for 42" pipe	2.00 EA	23,110	2,770	25,880	12940.68
19.05.96.25	Grounding Counterpoise	1.00 EA	1,100	130	1,230	1230.08
19.05.96.30	Stilling Well No. 1	1.00 EA	9,220	1,110	10,330	10329.26
19.05.96.32	Stilling Well No. 2	1.00 EA	9,220	1,110	10,320	10321.29
19.05.96.35	Antenna Pole	1.00 EA	1,730	210	1,940	1936.16
19.05.96.40	Electrical UG pull box	1.00 EA	890	110	990	994.14
TOTAL Electrical Work, 03/14/01		1.00 EA	77,170	9,260	86,430	86432.68

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** PROJECT OWNER SUMMARY - Level 4 (Rounded to 10's) **

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

TOTAL SITE WORK --OPER. & MAINT. BLDGS	1.00	EA	636,910	76,430	713,340	713341.64
19.10 ADMINISTRATION BUILDING						
19.10.05 BUILDING SITE ADMIN. BLDG						
19.10.05.05 Subgrade Prep	1050.00	SY	840	100	940	0.89
19.10.05.10 Undercut 3'	1300.00	BCY	7,500	900	8,400	6.46
19.10.05.15 Select Fill	1800.00	BCY	27,780	3,330	31,110	17.29
19.10.05.20 Granular Fill	9200.00	SF	4,480	540	5,020	0.55
19.10.05.25 Fine Grade	9200.00	SF	700	80	780	0.08
19.10.05.30 Vapor Barrier	9200.00	SF	1,110	130	1,240	0.13
19.10.05.35 Termite Protection	9200.00	SF	5,740	690	6,430	0.70
19.10.05.40 Bollards	8.00	EA	2,130	260	2,390	298.25

TOTAL BUILDING SITE ADMIN. BLDG	1.00	EA	50,280	6,030	56,320	56317.08
19.10.10 CONCRETE						
19.10.10.05 Column Footings	54.00	EA	4,210	500	4,710	87.24
19.10.10.10 Exterior Grade Beam	476.00	LF	35,520	4,260	39,780	83.57
19.10.10.20 5" Floor Slab on Grade	9160.00	SF	24,100	2,890	26,990	2.95

TOTAL CONCRETE	1.00	EA	63,820	7,660	71,480	71476.88
19.10.15 MASONRY						
19.10.15.10 Brick	4433.00	SF	37,480	4,500	41,980	9.47
19.10.15.15 Pre-Cast	3577.00	SF	86,180	10,340	96,530	26.99

TOTAL MASONRY	1.00	EA	123,670	14,840	138,510	138506.37
19.10.20 METALS						
19.10.20.05 Structural Framing	55000.00	LBS	63,390	7,610	70,990	1.29
19.10.20.10 Purlins	2400.00	LF	2,790	340	3,130	1.30
19.10.20.15 Miscellaneous Metal	12000.00	LB	39,930	4,790	44,720	3.73
19.10.20.20 Mezzanine Framing for 4" Slab	500.00	SF	5,550	670	6,210	12.42
19.10.20.25 Stairs and Ladders	2.00	EA	5,180	620	5,810	2902.89

TOTAL METALS	1.00	EA	116,840	14,020	130,860	130861.98
19.10.25 METALS & PLASTICS						
19.10.25.05 Finish and Rough Carpentry	9000.00	SF	29,590	3,550	33,140	3.68
19.10.25.10 Millwork	100.00	LF	22,090	2,650	24,740	247.38

LABOR ID: BMLABR

EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA

UPB ID: BMUP11

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
19.10.25.15 Comice Framing	477.00	LF	10,600	1,270	11,870	24.89
TOTAL METALS & PLASTICS	1.00	EA	62,280	7,470	69,750	69750.01
19.10.30 THERMAL AND MOISTURE PROTECTION						
19.10.30.05 Insulation, (Batts), Walls, R20	8000.00	SF	4,920	590	5,510	0.69
19.10.30.10 Insulation, Roof, R20	10800.00	SF	12,660	1,520	14,180	1.31
19.10.30.15 Standing Seam Roof Panels Walls	10800.00	SF	80,190	9,620	89,810	8.32
19.10.30.20 Waterproofing R-8	8000.00	SF	4,880	590	5,460	0.68
19.10.30.25 Gutters and Downspouts	830.00	LF	4,650	560	5,210	6.28
TOTAL THERMAL AND MOISTURE PROTECTION	1.00	EA	107,290	12,880	120,170	120169.52
19.10.35 DOORS AND WINDOWS						
19.10.35.05 Doors, Frames and Hardware	31.00	EA	22,790	2,740	25,530	823.54
19.10.35.10 Windows and Glazing	294.00	SF	10,680	1,280	11,960	40.69
19.10.35.15 Aluminum Storefronts	1152.00	SF	44,690	5,360	50,060	43.45
TOTAL DOORS AND WINDOWS	1.00	EA	78,170	9,380	87,550	87551.45
19.10.40 FINISHES						
19.10.40.05 Dry Wall	13900.00	SF	87,980	10,560	98,540	7.09
19.10.40.10 Painting and Finishing	16386.00	SF	8,980	1,080	10,060	0.61
19.10.40.15 Wall Covering	5460.00	SF	10,130	1,220	11,350	2.08
19.10.40.20 Miscellaneous Painting			6,190	740	6,930	
19.10.40.25 Porcelain Tile	1520.00	SF	14,790	1,780	16,570	10.90
19.10.40.30 Ceramic Tile	2225.00	SF	11,790	1,410	13,210	5.93
19.10.40.35 Carpet	382.00	SY	11,280	1,350	12,630	33.06
19.10.40.40 Vinyl Composition Tile	1636.00	SF	4,670	560	5,230	3.20
19.10.40.45 Wood Base	1534.00	LF	4,830	580	5,410	3.53
19.10.40.50 Rubber Base	452.00	LF	600	70	670	1.49
19.10.40.55 Metal Linear Ceiling	1520.00	SF	6,620	790	7,420	4.88
19.10.40.60 Accoustical Tile	7370.00	SF	22,300	2,680	24,980	3.39
TOTAL FINISHES	1.00	EA	190,180	22,820	213,000	212997.60
19.10.45 SPECIALTIES						
19.10.45.05 Computer Flooring	1790.00	SF	27,310	3,280	30,590	17.09
19.10.45.10 Specialties, Toilet Rooms	54.00	EA	8,370	1,000	9,380	173.65
19.10.45.15 Fire Extinguishers	13.00	EA	3,650	440	4,090	314.29
TOTAL SPECIALTIES	1.00	EA	39,330	4,720	44,060	44055.12

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST

19.10.50 SPECIAL CONSTRUCTION						
19.10.50.05 Fire Suppresion-Computer Room	2600.00	CF	10,570	1,270	11,840	4.55
TOTAL SPECIAL CONSTRUCTION	1.00	EA	10,570	1,270	11,840	11842.73

19.10.55 MECHANICAL						
19.10.55.05 HVAC	9160.00	SF	117,930	14,150	132,080	14.42
19.10.55.10 Plumbing	9160.00	SF	26,010	3,120	29,130	3.18
TOTAL MECHANICAL	1.00	EA	143,930	17,270	161,210	161205.89

19.10.60 ELECTRICAL						
19.10.60.05 Service & Distribution Equipment	9160.00	SF	44,170	5,300	49,470	5.40
19.10.60.10 Lighting System	9160.00	SF	86,350	10,360	96,710	10.56
19.10.60.15 Wiring Devices	9160.00	SF	23,070	2,770	25,840	2.82
19.10.60.20 Equipment Connections	9160.00	SF	16,640	2,000	18,630	2.03
19.10.60.25 Basic Materials	9160.00	SF	19,660	2,360	22,020	2.40
19.10.60.30 Transient Suppressor System			14,950	1,790	16,750	
19.10.60.35 Fire Alarm System			17,310	2,080	19,380	
19.10.60.40 Fire Suppression System			21,630	2,600	24,230	
19.10.60.45 Lightning Protection System			14,420	1,730	16,150	
19.10.60.50 Emergency Generator System			50,480	6,060	56,530	
19.10.60.55 Access Control & Security System			14,420	1,730	16,150	
19.10.60.60 Universal Wiring System			21,630	2,600	24,230	
19.10.60.65 Ground Ring System			9,710	1,170	10,880	
19.10.60.70 Uninterruptible Power Supply			49,030	5,880	54,920	
19.10.60.75 Site Lighting System	24.00	EA	89,190	10,700	99,890	4162.22
TOTAL ELECTRICAL	1.00	EA	492,660	59,120	551,780	551778.41
TOTAL ADMINISTRATION BUILDING	1.00	EA	1,479,030	177,480	1,656,510	1656513

19.15 MAINTENANCE BUILDING						
19.15.05 SITE						
19.15.05.05 Subgrade Prep	1075.00	SY	860	100	960	0.89
19.15.05.10 Undercut 2.5'	750.00	BCY	4,330	520	4,850	6.46
19.15.05.15 Select Fill	850.00	BCY	13,120	1,570	14,690	17.29
19.15.05.20 Granular Fill	8033.00	SF	3,890	470	4,360	0.54
19.15.05.25 Fine Grade	8033.00	SF	610	70	680	0.08
19.15.05.30 Vapor Barrier	8033.00	SF	970	120	1,080	0.13
19.15.05.35 Termite Protection	8033.00	SF	5,740	690	6,430	0.80
19.15.05.40 Bollards	18.00	EA	4,790	580	5,370	298.25

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
TOTAL SITE	1.00	EA	34,310	4,120	38,420	38424.92
19.15.10 CONCRETE						
19.15.10.05 Column Footings	18.00	EA	4,210	500	4,710	261.71
19.15.10.10 Exterior Turndown	382.00	LF	7,100	850	7,950	20.81
19.15.10.15 6" Floor Slab on Grade	4096.00	SF	20,310	2,440	22,750	5.55
19.15.10.20 Concrete Entrance Ramp	780.00	SF	6,200	740	6,950	8.91
TOTAL CONCRETE	1.00	EA	37,820	4,540	42,360	42359.99
19.15.15 METALS						
19.15.15.05 Mezzanine Framing for 4" Slab	1456.00	SF	16,150	1,940	18,090	12.42
19.15.15.10 Mezzanine Railing	45.00	LF	1,110	130	1,240	27.57
19.15.15.15 Stairs and Ladders	1.00	EA	2,960	360	3,320	3317.59
TOTAL METALS	1.00	EA	20,220	2,430	22,650	22647.29
19.15.20 WOOD & PLASTICS						
19.15.20.05 Finish and Rough Carpentry	9000.00	SF	29,590	3,550	33,140	3.68
TOTAL WOOD & PLASTICS	1.00	EA	29,590	3,550	33,140	33136.96
19.15.25 THERMAL & MOISTURE PROOFING						
19.15.25.05 Insulation, (Batts), Walls, R20	3100.00	SF	1,900	230	2,130	0.69
19.15.25.10 Insulation, Roof, R20	1400.00	SF	1,640	200	1,840	1.31
TOTAL THERMAL & MOISTURE PROOFING	1.00	EA	3,550	430	3,970	3971.47
19.15.30 DOORS AND WINDOWS						
19.15.30.05 Doors, Frames and Hardware	21.00	EA	31,000	3,720	34,720	1653.45
19.15.30.10 Windows	7.00	EA	6,230	750	6,970	996.10
TOTAL DOORS AND WINDOWS	1.00	EA	37,230	4,470	41,700	41695.06
19.15.35 FINISHES						
19.15.35.05 Dry Wall	1450.00	SF	32,830	3,940	36,770	25.36
19.15.35.10 Painting and Finishing	4000.00	SF	2,190	260	2,460	0.61
19.15.35.15 Miscellaneous Painting			2,750	330	3,080	
19.15.35.20 Vinyl Composition Tile	1460.00	SF	4,170	500	4,670	3.20

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
19.15.35.25 Rubber Base	1600.00	LF	2,120	250	2,380	1.49
19.15.35.30 Accoustical Tile	1450.00	SF	4,390	530	4,910	3.39
TOTAL FINISHES	1.00	EA	48,450	5,810	54,270	54265.59
19.15.40 SPECIALTIES						
19.15.40.05 Specialties, Toilet Rooms	25.00	EA	3,870	460	4,340	173.59
19.15.40.10 Fire Extinguishers	8.00	EA	2,240	270	2,510	314.29
TOTAL SPECIALTIES	1.00	EA	6,120	730	6,850	6854.06
19.15.45 SPECIAL CONSTRUCTION						
19.15.45.05 Pre-Engineered Bldg W/Siding	4096.00	SF	42,100	5,050	47,150	11.51
19.15.45.10 Pre-Engineered Bldg Open	3999.00	SF	24,670	2,960	27,630	6.91
TOTAL SPECIAL CONSTRUCTION	1.00	EA	66,770	8,010	74,780	74778.63
19.15.50 MECHANICAL						
19.15.50.05 HVAC	1460.00	SF	9,930	1,190	11,120	7.61
19.15.50.10 Htg/Vent, Shop	2572.00	SF	4,610	550	5,160	2.01
19.15.50.15 Plumbing	4032.00	SF	10,920	1,310	12,230	3.03
TOTAL MECHANICAL	1.00	EA	25,460	3,050	28,510	28512.73
19.15.55 ELECTRICAL						
19.15.55.05 Service & Distribution Equipment	3875.00	SF	14,090	1,690	15,780	4.07
19.15.55.10 Lighting Systems	3875.00	SF	24,340	2,920	27,260	7.03
19.15.55.15 Lighting Systems - Open	3500.00	SF	13,120	1,570	14,690	4.20
19.15.55.20 Wiring Devices	3875.00	SF	9,140	1,100	10,230	2.64
19.15.55.25 Wiring Devices - Open	3500.00	SF	890	110	1,000	0.28
19.15.55.30 Equipment Connections	3875.00	SF	3,150	380	3,520	0.91
19.15.55.40 Basic Materials	3825.00	SF	7,010	840	7,850	2.05
19.15.55.50 Tramsient Suppressor System			14,950	1,790	16,750	
19.15.55.55 Fire Alarm System			7,790	930	8,720	
19.15.55.60 Lightning Protection System			6,490	780	7,270	
19.15.55.65 Universal Wiring System			9,730	1,170	10,900	
19.15.55.70 Ground Ring System			5,980	720	6,690	
TOTAL ELECTRICAL	1.00	EA	116,670	14,000	130,670	130671.76
TOTAL MAINTENANCE BUILDING	1.00	EA	426,180	51,140	477,320	477318.46

LABOR ID: BMLABR

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** PROJECT OWNER SUMMARY - Level 4 (Rounded to 10's) **

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	QUANTITY	UOM	CONTRACT	CONTINGN	TOTAL COST	UNIT COST
19.20 Radio House Structure						
19.20. 1 Radio Tower Structure	1.00	EA	18,380	2,210	20,590	20588.52
19.20. 2 Radio Tower Concrete Base	20.00	CY	4,380	530	4,910	245.47
19.20. 3 Electrical Control Building						
19.20. 3. 1 Conc Slab for Elec Control Bldg	22.00	CY	6,640	800	7,430	337.80
19.20. 3. 2 Electrical Control Building	1.00	EA	56,260	6,750	63,010	63009.42
19.20. 3. 3 Unload and Place @ Job Site	1.00	EA	4,220	510	4,720	4723.64
TOTAL Electrical Control Building	1.00	EA	67,110	8,050	75,160	75164.71
19.20. 4 Electrical						
19.20. 4. 1 Incoming System	1.00	EA	30,880	3,710	34,590	34590.21
19.20. 4. 2 Service Entrance	1.00	EA	3,960	480	4,440	4438.91
19.20. 4. 3 Power and Lighting Distribution	1.00	EA	3,500	420	3,930	3925.55
19.20. 4. 4 19" Equipment Cabinets, NEMA 12	3.00	EA	46,270	5,550	51,820	17273.82
19.20. 4. 5 Fiber Optic Provisions	1.00	EA	3,320	400	3,720	3716.94
19.20. 4. 6 Grounding Counterpoise	1.00	EA	3,130	380	3,500	3502.40
TOTAL Electrical	1.00	EA	91,070	10,930	102,000	101995.48
19.20. 5 Generator & Auto Transfer Sw Sys						
19.20. 5. 1 Generator	1.00	EA	16,470	1,980	18,440	18441.33
19.20. 5. 2 Automatic Transfer Switch System	1.00	EA	6,540	780	7,330	7326.30
TOTAL Generator & Auto Transfer Sw Sys	1.00	EA	23,010	2,760	25,770	25767.64
TOTAL Radio House Structure	1.00	EA	203,950	24,470	228,430	228425.71
19.25 Irrigation Sytem Controls/Comm						
19.25.10 Fiber Optic Backbone	1.00	EA	1,355,200	162,620	1,517,820	1517825
19.25.20 Radio Link Component	1.00	EA	500,370	60,040	560,420	560416.14
TOTAL Irrigation Sytem Controls/Comm	1.00	EA	1,855,570	222,670	2,078,240	2078241
TOTAL Buildings,Grounds, & Utilities	1.00	EA	4,601,640	552,200	5,153,840	5153840
30 Planning, Engineering and Design	217764890	DOL	21,776,490	2,613,180	24,389,670	0.11
31 Construction Management	217764890	DOL	13,065,890	1,567,910	14,633,800	0.07
TOTAL Bayou Meto Feas.Est.28 Apr.2003	1.00	EA	335,457,280	30312870	365,770,160	365770159

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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 ** PROJECT INDIRECT SUMMARY - Feature (Rounded to 10's) **

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
01 Lands and Damages	1.00	EA	17,850,000	0	0	0	0	17,850,000	17850000
02 Relocations	1.00	EA	21,498,550	2,149,850	1,182,420	1,986,470	268,170	27,085,460	27085464
03 Reservoirs	91.00	ACR	1,247,660	124,770	68,620	115,280	15,560	1,571,890	17273.56
09 Channels and Canals	1.00	EA	191,457,610	12220260	6,721,140	11291520	1,524,360	223,214,890	223214888
13 Pumping Plants	1.00	EA	21,465,000	1,857,060	1,021,380	1,715,920	231,650	26,291,010	26291013
19 Buildings,Grounds, & Utilities	1.00	EA	3,652,460	365,250	200,890	337,490	45,560	4,601,640	4601643
30 Planning, Engineering and Design	217764890	DOL	21,776,490	0	0	0	0	21,776,490	0.10
31 Construction Management	217764890	DOL	13,065,890	0	0	0	0	13,065,890	0.06
Bayou Meto Feas.Est.28 Apr.2003	1.00	EA	292,013,660	16717190	9,194,450	15446680	2,085,300	335,457,280	335457284
Contingency								30,312,870	
TOTAL INCL OWNER COSTS								365,770,160	

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** PROJECT INDIRECT SUMMARY - Contract (Rounded to 10's) **

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
01 Lands and Damages										
01.25	Real Estate			16,900,000	0	0	0	0	16,900,000	
01.30	Mitigation			950,000	0	0	0	0	950,000	
TOTAL Lands and Damages		1.00	EA	17,850,000	0	0	0	0	17,850,000	17850000
02 Relocations										
02.11	Contract Area 2	1.00	EA	4,133,100	413,310	227,320	381,900	51,560	5,207,190	5207185
02.13	Contract Area 4	1.00	EA	1,644,500	164,450	90,450	151,950	20,510	2,071,860	2071863
02.14	Contract Area 5	1.00	EA	2,220,650	222,070	122,140	205,190	27,700	2,797,740	2797739
02.15	Contract Area 6	1.00	EA	1,116,650	111,670	61,420	103,180	13,930	1,406,840	1406838
02.17	Contract Area 7B	1.00	EA	1,077,550	107,750	59,270	99,570	13,440	1,357,580	1357577
02.18	Contract Area 9	1.00	EA	2,162,000	216,200	118,910	199,770	26,970	2,723,850	2723848
02.19	Contract Area 10	1.00	EA	4,378,500	437,850	240,820	404,570	54,620	5,516,360	5516358
02.24	Contract Area 15	1.00	EA	946,450	94,650	52,050	87,450	11,810	1,192,410	1192408
02.26	Contract Area 17	1.00	EA	3,819,150	381,920	210,050	352,890	47,640	4,811,650	4811648
TOTAL Relocations		1.00	EA	21,498,550	2,149,850	1,182,420	1,986,470	268,170	27,085,460	27085464
03 Reservoirs										
03.10	Reservoirs--R1000--CA1	35.00	ACR	549,460	54,950	30,220	50,770	6,850	692,250	19778.46
03.30	Reservoirs--R2500/3000--CA8	29.00	ACR	301,240	30,120	16,570	27,830	3,760	379,520	13086.85
03.40	Reservoirs--R4000--CA14	27.00	ACR	396,970	39,700	21,830	36,680	4,950	500,130	18523.30
TOTAL Reservoirs		91.00	ACR	1,247,660	124,770	68,620	115,280	15,560	1,571,890	17273.56
09 Channels and Canals										
09.01	Canals Contract Area 1	1.00	EA	1,856,100	175,610	96,590	162,260	21,910	2,312,470	2312466
09.02	Canals Contract Area 2	1.00	EA	11,389,900	1,097,740	603,760	1,014,310	136,930	14,242,640	14242644
09.03	Canals Contract Area 3A	1.00	EA	18,840,460	1,804,790	992,630	1,667,620	225,130	23,530,630	23530626
09.04	Canals Contract Area 3B	1.00	EA	1,417,130	141,710	77,940	130,940	17,680	1,785,410	1785409
09.05	Canals Contract Area 4	1.00	EA	5,096,940	492,890	271,090	455,430	61,480	6,377,830	6377830
09.06	Canals Contract Area 5	1.00	EA	21,689,540	2,108,930	1,159,910	1,948,660	263,070	27,170,110	27170113
09.07	Canals Contract Area 6	1.00	EA	17,291,800	1,653,610	909,490	1,527,940	206,270	21,589,100	21589104
09.08	Canals Contract Area 7A	1.00	EA	13,946,380	1,328,740	730,810	1,227,760	165,750	17,399,430	17399435
09.09	Canals Contract Area 7B	1.00	EA	2,443,100	234,680	129,070	216,840	29,270	3,052,960	3052959
09.10	Canals Contract Area 8	1.00	EA	869,000	86,900	47,790	80,300	10,840	1,094,830	1094829
09.11	Canals Contract Area 9	1.00	EA	1,973,520	197,350	108,540	182,350	24,620	2,486,390	2486386
09.12	Canals Contract Area 10	1.00	EA	2,884,400	287,090	157,900	265,270	35,810	3,630,470	3630472
09.13	Canals Contract Area 11	1.00	EA	5,098,110	509,810	280,400	471,060	63,590	6,422,970	6422970
09.14	Canals Contract Area 12	1.00	EA	1,517,710	140,070	77,040	129,420	17,470	1,881,710	1881706
09.15	Canals Contract Area 13	1.00	EA	516,980	48,680	26,770	44,980	6,070	643,490	643490.04
09.16	Canals Contract Area 14	1.00	EA	771,550	77,160	42,440	71,290	9,620	972,060	972058.37

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.17	Canals Contract Area 15	1.00	EA	712,060	69,850	38,420	64,540	8,710	893,590	893588.30
09.18	Canals Contract Area 16	1.00	EA	2,893,520	279,950	153,970	258,670	34,920	3,621,040	3621040
09.19	Canals Contract Area 17	1.00	EA	15,249,410	1,484,700	816,590	1,371,860	185,200	19,107,760	19107764
09.80	On Farm Cost			65,000,000	0	0	0	0	65,000,000	
TOTAL Channels and Canals		1.00	EA	191,457,610	12220260	6,721,140	11291520	1,524,360	223,214,890	223214888
13 Pumping Plants										
13.05	Pump.Plant-P1000R-1750cfsCA01 P1	1.00	EA	15,007,410	1,300,740	715,410	1,201,890	162,250	18,387,700	18387704
13.12	Pump.Plant-P-2000R-625cfsCA08 P2	1.00	EA	3,128,590	291,460	160,300	269,310	36,360	3,886,020	3886017
13.16	Pump.Plant-P-3000R-260cfsCA14 P3	1.00	EA	1,676,180	146,250	80,440	135,130	18,240	2,056,240	2056236
13.22	Pump.Plant-P-2140R-125cfsCA05 P4	1.00	EA	1,652,820	118,610	65,240	109,600	14,800	1,961,060	1961056
TOTAL Pumping Plants		1.00	EA	21,465,000	1,857,060	1,021,380	1,715,920	231,650	26,291,010	26291013
19 Buildings,Grounds, & Utilities										
19.05	SITE WORK --OPER. & MAINT. BLDGS	1.00	EA	505,540	50,550	27,800	46,710	6,310	636,910	636912.18
19.10	ADMINISTRATION BUILDING	1.00	EA	1,173,950	117,400	64,570	108,470	14,640	1,479,030	1479030
19.15	MAINTENANCE BUILDING	1.00	EA	338,270	33,830	18,600	31,260	4,220	426,180	426177.20
19.20	Radio House Structure	1.00	EA	161,880	16,190	8,900	14,960	2,020	203,950	203951.53
19.25	Irrigation Sytem Controls/Comm	1.00	EA	1,472,820	147,280	81,010	136,090	18,370	1,855,570	1855572
TOTAL Buildings,Grounds, & Utilities		1.00	EA	3,652,460	365,250	200,890	337,490	45,560	4,601,640	4601643
30	Planning, Engineering and Design	217764890	DOL	21,776,490	0	0	0	0	21,776,490	0.10
31	Construction Management	217764890	DOL	13,065,890	0	0	0	0	13,065,890	0.06
TOTAL Bayou Meto Feas.Est.28 Apr.2003		1.00	EA	292,013,660	16717190	9,194,450	15446680	2,085,300	335,457,280	335457284
Contingency									30,312,870	
TOTAL INCL OWNER COSTS									365,770,160	

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
01 Lands and Damages									
01.25 Real Estate			16,900,000	0	0	0	0	16,900,000	
01.30 Mitigation			950,000	0	0	0	0	950,000	
TOTAL Lands and Damages	1.00	EA	17,850,000	0	0	0	0	17,850,000	17850000
02 Relocations									
02.11 Contract Area 2									
02.11.01 Roads, Construction Activitie	1.00	EA	3,681,150	368,120	202,460	340,140	45,920	4,637,790	4637785
02.11.10 Cemetery, Utilities, & Struct	1.00	EA	451,950	45,190	24,860	41,760	5,640	569,400	569400.03
TOTAL Contract Area 2	1.00	EA	4,133,100	413,310	227,320	381,900	51,560	5,207,190	5207185
02.13 Contract Area 4									
02.13.01 Roads, Construction Activitie	1.00	EA	1,160,350	116,040	63,820	107,220	14,470	1,461,890	1461895
02.13.10 Cemetery, Utilities, & Struct	1.00	EA	484,150	48,410	26,630	44,740	6,040	609,970	609967.98
TOTAL Contract Area 4	1.00	EA	1,644,500	164,450	90,450	151,950	20,510	2,071,860	2071863
02.14 Contract Area 5									
02.14.01 Roads, Construction Activitie	1.00	EA	2,055,050	205,510	113,030	189,890	25,630	2,589,100	2589104
02.14.10 Cemetery, Utilities, & Struct	1.00	EA	165,600	16,560	9,110	15,300	2,070	208,640	208635.13
TOTAL Contract Area 5	1.00	EA	2,220,650	222,070	122,140	205,190	27,700	2,797,740	2797739
02.15 Contract Area 6									
02.15.01 Roads, Construction Activitie	1.00	EA	971,750	97,180	53,450	89,790	12,120	1,224,280	1224283
02.15.10 Cemetery, Utilities, & Struct	1.00	EA	144,900	14,490	7,970	13,390	1,810	182,560	182555.74
TOTAL Contract Area 6	1.00	EA	1,116,650	111,670	61,420	103,180	13,930	1,406,840	1406838
02.17 Contract Area 7B									
02.17.01 Roads, Construction Activitie	1.00	EA	934,950	93,490	51,420	86,390	11,660	1,177,920	1177919
02.17.10 Cemetery, Utilities, & Struct	1.00	EA	142,600	14,260	7,840	13,180	1,780	179,660	179658.03
TOTAL Contract Area 7B	1.00	EA	1,077,550	107,750	59,270	99,570	13,440	1,357,580	1357577

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
02.18 Contract Area 9									
02.18.01 Roads, Construction Activitie	1.00	EA	1,973,400	197,340	108,540	182,340	24,620	2,486,240	2486235
02.18.10 Cemetery, Utilities, & Struct	1.00	EA	188,600	18,860	10,370	17,430	2,350	237,610	237612.24
TOTAL Contract Area 9	1.00	EA	2,162,000	216,200	118,910	199,770	26,970	2,723,850	2723848
02.19 Contract Area 10									
02.19.01 Roads, Construction Activitie	1.00	EA	4,107,100	410,710	225,890	379,500	51,230	5,174,430	5174428
02.19.10 Cemetery, Utilities, & Struct	1.00	EA	271,400	27,140	14,930	25,080	3,390	341,930	341929.80
TOTAL Contract Area 10	1.00	EA	4,378,500	437,850	240,820	404,570	54,620	5,516,360	5516358
02.24 Contract Area 15									
02.24.01 Roads, Construction Activitie	1.00	EA	826,850	82,690	45,480	76,400	10,310	1,041,730	1041727
02.24.10 Cemetery, Utilities, & Struct	1.00	EA	119,600	11,960	6,580	11,050	1,490	150,680	150680.93
TOTAL Contract Area 15	1.00	EA	946,450	94,650	52,050	87,450	11,810	1,192,410	1192408
02.26 Contract Area 17									
02.26.01 Roads, Construction Activitie	1.00	EA	2,707,100	270,710	148,890	250,140	33,770	3,410,600	3410605
02.26.10 Cemetery, Utilities, & Struct	1.00	EA	1,112,050	111,210	61,160	102,750	13,870	1,401,040	1401043
TOTAL Contract Area 17	1.00	EA	3,819,150	381,920	210,050	352,890	47,640	4,811,650	4811648
TOTAL Relocations	1.00	EA	21,498,550	2,149,850	1,182,420	1,986,470	268,170	27,085,460	27085464
03 Reservoirs									
03.10 Reservoirs--R1000--CA1									
03.10.01 Mob, Demob & Preparatory Work			25,000	2,500	1,380	2,310	310	31,500	
03.10.02 Drainage	200.00	HR	1,020	100	60	90	10	1,280	6.42
03.10.03 Turfing Impoundment Levees	15.00	AC	11,520	1,150	630	1,060	140	14,510	967.42
03.10.04 Embankment	253300.00	CY	374,450	37,450	20,590	34,600	4,670	471,760	1.86
03.10.48 Clearing and Debris Removal	28.00	AC	25,280	2,530	1,390	2,340	320	31,850	1137.45
03.10.60 Access Road and Parking	1.00	EA	89,790	8,980	4,940	8,300	1,120	113,130	113126.98
03.10.70 Clearing Borrow and Haul Road	18.00	AC	16,250	1,630	890	1,500	200	20,470	1137.45
03.10.80 Turfing Haul Roads	8.00	AC	6,140	610	340	570	80	7,740	967.42
TOTAL Reservoirs--R1000--CA1	35.00	ACR	549,460	54,950	30,220	50,770	6,850	692,250	19778.46
03.30 Reservoirs--R2500/3000--CA8									

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
03.30.01 Clearing and Grubbing	23.00 ACR	20,770	2,080	1,140	1,920	260	26,160	1137.45
03.30.02 Impondment Levee	271650.00 CY	229,140	22,910	12,600	21,170	2,860	288,680	1.06
03.30.03 Turfing Impoundment Levees	15.00 ACR	10,000	1,000	550	920	120	12,600	840.05
03.30.04 Care of Water	500.00 HR	2,550	250	140	240	30	3,210	6.42
03.30.05 Clearing Borrow and Haul Road	14.00 AC	12,640	1,260	700	1,170	160	15,920	1137.45
03.30.06 Turfing Haul Roads	8.00 AC	6,140	610	340	570	80	7,740	967.42
03.30.07 MOB and Demob		20,000	2,000	1,100	1,850	250	25,200	
TOTAL Reservoirs--R2500/3000--CA8	29.00 ACR	301,240	30,120	16,570	27,830	3,760	379,520	13086.85

03.40 Reservoirs--R4000--CA14

03.40.01 Mob. Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
03.40.02 Drainage	600.00 HR	19,510	1,950	1,070	1,800	240	24,580	40.96
03.40.03 Embankment	28354.00 CY	23,920	2,390	1,320	2,210	300	30,130	1.06
03.40.04 Turfing Impoundment Levees	5.00 AC	3,840	380	210	350	50	4,840	967.42
03.40.05 Excavation of Excess Material	206212.00 CY	304,840	30,480	16,770	28,170	3,800	384,060	1.86
03.40.48 Clearing and Debris Removal	22.00 AC	19,860	1,990	1,090	1,840	250	25,020	1137.45
TOTAL Reservoirs--R4000--CA14	27.00 ACR	396,970	39,700	21,830	36,680	4,950	500,130	18523.30
TOTAL Reservoirs	91.00 ACR	1,247,660	124,770	68,620	115,280	15,560	1,571,890	17273.56

09 Channels and Canals

09.01 Canals Contract Area 1

09.01.01 Mob. Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
09.01.10 Canal Excavation	422200.00 CY	470,230	47,020	25,860	43,450	5,870	592,420	1.40
09.01.15 Riprap and Filter	8126.00 TON	147,080	14,710	8,090	13,590	1,830	185,300	22.80
09.01.30 Check Structures	1.00 EA	1,218,800	111,880	61,530	103,380	13,960	1,509,540	1509545
TOTAL Canals Contract Area 1	1.00 EA	1,856,100	175,610	96,590	162,260	21,910	2,312,470	2312466

09.02 Canals Contract Area 2

09.02.01 Mob. Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
09.02.10 Canal Excavation	2188000 CY	2,917,430	291,740	160,460	269,570	36,390	3,675,590	1.68
09.02.25 Pumps	8.00 EA	733,410	59,590	32,770	55,060	7,430	888,270	111033.36
09.02.30 Check Structures	3.00 EA	3,509,940	323,490	177,920	298,910	40,350	4,350,610	1450204
09.02.50 Inverted Siphons	13.00 EA	3,765,670	376,570	207,110	347,950	46,970	4,744,270	364944.14
09.02.70 New Canal Landowner Takeoffs	19.00 EA	387,720	38,770	21,320	35,830	4,840	488,470	25709.18
09.02.80 Pipeline Landowner Takeoffs	3.00 EA	25,740	2,570	1,420	2,380	320	32,430	10810.71
TOTAL Canals Contract Area 2	1.00 EA	11,389,900	1,097,740	603,760	1,014,310	136,930	14,242,640	14242644

09.03 Canals Contract Area 3A

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.03.01	Mob, Demob & Preparatory Work			50,000	5,000	2,750	4,620	620	62,990	
09.03.15	Existing Channel Improvements			516,110	51,610	28,390	47,690	6,440	650,230	
09.03.20	Pipe Lines	565495.00	LF	12,326,610	1,232,660	677,960	1,138,980	153,760	15,529,970	27.46
09.03.25	Pumps	39.00	EA	4,279,760	350,070	192,540	323,460	43,670	5,189,500	133064.04
09.03.40	Weirs	5.00	EA	77,180	7,720	4,240	7,130	960	97,230	19446.56
09.03.50	Inverted Siphons	1.00	EA	61,230	6,120	3,370	5,660	760	77,150	77148.19
09.03.60	Gateway Turnout Structures	1.00	EA	184,670	17,120	9,410	15,810	2,130	229,150	229151.44
09.03.75	Extg Canal Landowner Takeoff(	25.00	EA	439,300	43,930	24,160	40,590	5,480	553,460	22138.46
09.03.80	Pipeline Landowner Takeoffs (	104.00	EA	892,400	89,240	49,080	82,460	11,130	1,124,310	10810.70
09.03.85	24" CMP Drop Structures (3A)	10.00	EA	13,190	1,320	730	1,220	160	16,620	1662.14
TOTAL Canals Contract Area 3A		1.00	EA	18,840,460	1,804,790	992,630	1,667,620	225,130	23,530,630	23530626
09.04 Canals Contract Area 3B										
09.04.10	Canal Excavation	641700.00	CY	233,430	23,340	12,840	21,570	2,910	294,090	0.46
09.04.70	New Canal Landowner Takeoffs(	4.00	EA	81,620	8,160	4,490	7,540	1,020	102,840	25709.18
09.04.76	Extg Canal Landowner Takeoff(	22.00	EA	386,580	38,660	21,260	35,720	4,820	487,050	22138.46
09.04.81	Pipeline Landowner Takeoffs (	82.00	EA	703,620	70,360	38,700	65,010	8,780	886,480	10810.70
09.04.86	24" CMP Drop Structures (3B)	9.00	EA	11,870	1,190	650	1,100	150	14,960	1662.14
TOTAL Canals Contract Area 3B		1.00	EA	1,417,130	141,710	77,940	130,940	17,680	1,785,410	1785409
09.05 Canals Contract Area 4										
09.05.01	Mob, Demob & Preparatory Work			50,000	5,000	2,750	4,620	620	62,990	
09.05.10	Canal Excavation	1643100	CY	423,130	42,310	23,270	39,100	5,280	533,090	0.32
09.05.20	Pipe Lines	85715.00	LF	1,658,400	165,840	91,210	153,240	20,690	2,089,380	24.38
09.05.25	Pumps	7.00	EA	802,800	66,180	36,400	61,150	8,260	974,790	139255.50
09.05.50	Inverted Siphons	7.00	EA	977,380	97,740	53,760	90,310	12,190	1,231,370	175910.55
09.05.60	Gateway Turnout Structures	2.00	EA	358,570	33,150	18,230	30,630	4,140	444,720	222361.19
09.05.70	New Canal Landowner Takeoffs	11.00	EA	224,470	22,450	12,350	20,740	2,800	282,800	25709.18
09.05.75	Existing Canal Landowner Take	15.00	EA	263,580	26,360	14,500	24,350	3,290	332,080	22138.46
09.05.80	Pipeline Landowner Takeoffs	39.00	EA	334,650	33,470	18,410	30,920	4,170	421,620	10810.70
09.05.85	24" CMP Drop Structures	3.00	EA	3,960	400	220	370	50	4,990	1662.14
TOTAL Canals Contract Area 4		1.00	EA	5,096,940	492,890	271,090	455,430	61,480	6,377,830	6377830
09.06 Canals Contract Area 5										
09.06.01	Mob, Demob & Preparatory Work			50,000	5,000	2,750	4,620	620	62,990	
09.06.10	Canal Excavation	443600.00	CY	1,830,290	183,030	100,670	169,120	22,830	2,305,930	5.20
09.06.15	Existing Channel Improvements			291,720	29,170	16,040	26,960	3,640	367,530	
09.06.20	Pipe Lines	601920.00	LF	9,666,460	966,650	531,660	893,180	120,580	12,178,530	20.23
09.06.25	Pumps	31.00	EA	3,459,890	285,970	157,280	264,240	35,670	4,203,050	135582.37
09.06.30	Check Structures	2.00	EA	1,735,210	173,520	95,440	160,330	21,640	2,186,140	1093072
09.06.40	Weirs	9.00	EA	140,220	14,020	7,710	12,960	1,750	176,660	19628.85
09.06.50	Inverted Siphons	15.00	EA	1,219,200	121,920	67,060	112,650	15,210	1,536,040	102402.37

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.70 New Canal Landowner Takeoffs	27.00 EA	550,970	55,100	30,300	50,910	6,870	694,150	25709.18
09.06.75 Existing Canal Landowner Take	38.00 EA	667,730	66,770	36,730	61,700	8,330	841,260	22138.46
09.06.80 Pipeline Landowner Takeoffs	238.00 EA	2,042,230	204,220	112,320	188,700	25,470	2,572,950	10810.70
09.06.85 24" CMP Drop Structures	27.00 EA	35,620	3,560	1,960	3,290	440	44,880	1662.14
TOTAL Canals Contract Area 5	1.00 EA	21,689,540	2,108,930	1,159,910	1,948,660	263,070	27,170,110	27170113

09.07 Canals Contract Area 6

09.07.01 Mob. Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
09.07.10 Canal Excavation	868600.00 CY	282,270	28,230	15,520	26,080	3,520	355,620	0.41
09.07.18 Existing Channel Improvements		690,710	69,070	37,990	63,820	8,620	870,200	
09.07.20 Pipe Lines	286722.00 LF	8,811,140	881,110	484,610	814,150	109,910	11,100,930	38.72
09.07.25 Pumps	34.00 EA	3,987,680	331,310	182,220	306,130	41,330	4,848,670	142607.92
09.07.40 Weirs	15.00 EA	254,360	25,440	13,990	23,500	3,170	320,460	21364.22
09.07.50 Inverted Siphons	7.00 EA	1,024,950	102,500	56,370	94,710	12,790	1,291,310	184473.11
09.07.60 Gatewell Turnout Structures	6.00 EA	747,590	66,650	36,660	61,580	8,310	920,790	153465.72
09.07.70 New Canal Landowner Takeoffs	13.00 EA	265,280	26,530	14,590	24,510	3,310	334,220	25709.18
09.07.75 Existing Canal Landowner Take	28.00 EA	492,010	49,200	27,060	45,460	6,140	619,880	22138.46
09.07.80 Pipeline Landowner Takeoffs	79.00 EA	677,880	67,790	37,280	62,640	8,460	854,050	10810.70
09.07.85 24" CMP Drop Structures	6.00 EA	7,920	790	440	730	100	9,970	1662.14
TOTAL Canals Contract Area 6	1.00 EA	17,291,800	1,653,610	909,490	1,527,940	206,270	21,589,100	21589104

09.08 Canals Contract Area 7A

09.08.01 Mob. Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
09.08.18 Canal Excavation	120.00 AC	266,030	26,600	14,630	24,580	3,320	335,160	2793.02
09.08.19 Existing Channel Improvements	120.00 AC	1,429,510	142,950	78,620	132,090	17,830	1,801,000	15008.37
09.08.20 Pipe Lines	381615.00 LF	6,886,460	688,650	378,760	636,310	85,900	8,676,070	22.74
09.08.25 Pumps	33.00 EA	3,627,500	299,560	164,760	276,790	37,370	4,405,970	133514.27
09.08.40 Weirs	10.00 EA	221,780	22,180	12,200	20,490	2,770	279,410	27941.18
09.08.50 Inverted Siphons	3.00 EA	196,610	19,660	10,810	18,170	2,450	247,710	82568.74
09.08.60 Gatewell Turnout Structures	2.00 EA	376,480	34,940	19,220	32,290	4,360	467,280	233642.48
09.08.70 New Canal Landowner Takeoffs(	4.00 EA	81,620	8,160	4,490	7,540	1,020	102,840	25709.18
09.08.75 Existing Canal LO Takeoffs (	35.00 EA	615,020	61,500	33,830	56,830	7,670	774,850	22138.46
09.08.80 Pipeline Landowner Takeoffs (	22.00 EA	188,780	18,880	10,380	17,440	2,350	237,840	10810.70
09.08.85 24" CMP Drop Structures (7A)	5.00 EA	6,600	660	360	610	80	8,310	1662.14
TOTAL Canals Contract Area 7A	1.00 EA	13,946,380	1,328,740	730,810	1,227,760	165,750	17,399,430	17399435

09.09 Canals Contract Area 7B

09.09.20 Pumps	4.00 EA	622,590	52,620	28,940	48,630	6,560	759,340	189836.13
09.09.25 Canal Excavation	4.00 EA	475,990	47,600	26,180	43,980	5,940	599,690	149921.32
09.09.71 New Canal Landowner Takeoffs(	12.00 EA	244,870	24,490	13,470	22,630	3,050	308,510	25709.18
09.09.81 Pipeline Landowner Takeoffs (	126.00 EA	1,081,180	108,120	59,460	99,900	13,490	1,362,150	10810.70

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

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09.09.86 24" CMP Drop Structures (7B)	14.00	EA	18,470	1,850	1,020	1,710	230	23,270	1662.14
TOTAL Canals Contract Area 7B	1.00	EA	2,443,100	234,680	129,070	216,840	29,270	3,052,960	3052959
09.10 Canals Contract Area 8									
09.10.01 Mob, Demob & Preparatory Work			20,000	2,000	1,100	1,850	250	25,200	
09.10.30 Check Structures	1.00	EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
09.10.70 New Canal Landowner Takeoffs	2.00	EA	40,810	4,080	2,240	3,770	510	51,420	25709.17
TOTAL Canals Contract Area 8	1.00	EA	869,000	86,900	47,790	80,300	10,840	1,094,830	1094829
09.11 Canals Contract Area 9									
09.11.01 Mob, Demob & Preparatory Work			25,000	2,500	1,380	2,310	310	31,500	
09.11.05 Canal Excavation	451100.00	CY	290,670	29,070	15,990	26,860	3,630	366,210	0.81
09.11.30 Check Structures	2.00	EA	1,474,190	147,420	81,080	136,220	18,390	1,857,300	928649.04
09.11.70 New Canal Landowner Takeoffs	9.00	EA	183,660	18,370	10,100	16,970	2,290	231,380	25709.18
TOTAL Canals Contract Area 9	1.00	EA	1,973,520	197,350	108,540	182,350	24,620	2,486,390	2486386
09.12 Canals Contract Area 10									
09.12.01 Mob, Demob & Preparatory Work			25,000	2,500	1,380	2,310	310	31,500	
09.12.10 Canal Excavation	1372100	CY	720,330	72,030	39,620	66,560	8,990	907,520	0.66
09.12.30 Check Structures	1.00	EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
09.12.50 Inverted Siphons	8.00	EA	914,690	91,470	50,310	84,520	11,410	1,152,400	144049.94
09.12.60 Gatewell Turnout Structures	1.00	EA	252,950	23,940	13,170	22,120	2,990	315,170	315166.06
09.12.70 New Canal Landowner Takeoffs	8.00	EA	163,250	16,320	8,980	15,080	2,040	205,670	25709.18
TOTAL Canals Contract Area 10	1.00	EA	2,884,400	287,090	157,900	265,270	35,810	3,630,470	3630472
09.13 Canals Contract Area 11									
09.13.01 Mob, Demob & Preparatory Work			25,000	2,500	1,380	2,310	310	31,500	
09.13.09 Existing Channel Impr Oak Bra			434,870	43,490	23,920	40,180	5,420	547,890	
09.13.20 Pipe Lines	100154.00	LF	3,409,480	340,950	187,520	315,040	42,530	4,295,520	42.89
09.13.40 Weirs	15.00	EA	166,440	16,640	9,150	15,380	2,080	209,690	13979.57
09.13.50 Inverted Siphons	4.00	EA	224,120	22,410	12,330	20,710	2,800	282,360	70590.98
09.13.75 Existing Canal Landowner Take	31.00	EA	544,470	54,450	29,950	50,310	6,790	685,960	22127.77
09.13.80 Pipeline Landowner Takeoffs	33.00	EA	283,170	28,320	15,570	26,160	3,530	356,750	10810.70
09.13.85 24" CMP Drop Structures	8.00	EA	10,550	1,060	580	980	130	13,300	1662.14
TOTAL Canals Contract Area 11	1.00	EA	5,098,110	509,810	280,400	471,060	63,590	6,422,970	6422970
09.14 Canals Contract Area 12									

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09.14.01	Mob, Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
09.14.20	Pipe Lines	6562.00 LF	550,300	55,030	30,270	50,850	6,860	693,310	105.66
09.14.25	Pumps	6.00 EA	653,410	53,640	29,500	49,560	6,690	792,800	132132.52
09.14.70	New Canal Landowner Takeoffs	6.00 EA	122,390	12,240	6,730	11,310	1,530	154,190	25698.49
09.14.80	Pipeline Landowner Takeoffs	20.00 EA	171,620	17,160	9,440	15,860	2,140	216,210	10810.70
TOTAL Canals Contract Area 12		1.00 EA	1,517,710	140,070	77,040	129,420	17,470	1,881,710	1881706
09.15 Canals Contract Area 13									
09.15.01	Mob, Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
09.15.20	Pipe Lines	67102.00 LF	154,610	15,460	8,500	14,290	1,930	194,790	2.90
09.15.25	Pumps	2.00 EA	166,740	13,660	7,510	12,620	1,700	202,230	101114.58
09.15.70	New Canal Landowner Takeoffs	5.00 EA	101,990	10,200	5,610	9,420	1,270	128,490	25698.49
09.15.80	Pipeline Landowner Takeoffs	8.00 EA	68,650	6,860	3,780	6,340	860	86,490	10810.70
TOTAL Canals Contract Area 13		1.00 EA	516,980	48,680	26,770	44,980	6,070	643,490	643490.04
09.16 Canals Contract Area 14									
09.16.01	Mob, Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
09.16.30	Check Structures	1.00 EA	731,150	73,120	40,210	67,560	9,120	921,160	921162.39
09.16.70	New Canal Landowner Takeoffs	1.00 EA	20,400	2,040	1,120	1,880	250	25,700	25698.50
TOTAL Canals Contract Area 14		1.00 EA	771,550	77,160	42,440	71,290	9,620	972,060	972058.37
09.17 Canals Contract Area 15									
09.17.01	Mob, Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
09.17.10	Canal Excavation	758400.00 CY	150,470	15,050	8,280	13,900	1,880	189,580	0.25
09.17.50	Inverted Siphons	3.00 EA	264,820	26,480	14,560	24,470	3,300	333,630	111211.37
09.17.60	Gateway Turnout Structures	1.00 EA	174,780	16,130	8,870	14,900	2,010	216,690	216688.89
09.17.70	New Canal Landowner Takeoffs	5.00 EA	101,990	10,200	5,610	9,420	1,270	128,490	25698.49
TOTAL Canals Contract Area 15		1.00 EA	712,060	69,850	38,420	64,540	8,710	893,590	893588.30
09.18 Canals Contract Area 16									
09.18.01	Mob, Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
09.18.20	Pipe Lines	74165.00 LF	2,168,840	216,880	119,290	200,400	27,050	2,732,470	36.84
09.18.25	Pumps	4.00 EA	466,390	37,240	20,480	34,410	4,640	563,160	140789.70
09.18.75	Existing Canal Landowner Take	4.00 EA	70,250	7,030	3,860	6,490	880	88,510	22127.78
09.18.80	Pipeline Landowner Takeoffs	19.00 EA	163,030	16,300	8,970	15,060	2,030	205,400	10810.70
TOTAL Canals Contract Area 16		1.00 EA	2,893,520	279,950	153,970	258,670	34,920	3,621,040	3621040

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09.19 Canals Contract Area 17										
09.19.01	Mob, Demob & Preparatory Work			50,000	5,000	2,750	4,620	620	62,990	
09.19.08	Canal Excavation	758400.00	CY	980,900	98,090	53,950	90,630	12,240	1,235,800	1.63
09.19.20	Pipe Lines	291887.00	LF	6,543,660	654,370	359,900	604,630	81,630	8,244,190	28.24
09.19.25	Pumps	20.00	EA	2,208,480	181,960	100,080	168,130	22,700	2,681,340	134067.08
09.19.30	Check Structures	1.00	EA	706,380	70,640	38,850	65,270	8,810	889,950	889950.91
09.19.40	Weirs	2.00	EA	29,750	2,980	1,640	2,750	370	37,480	18741.58
09.19.50	Inverted Siphons	13.00	EA	2,556,880	255,690	140,630	236,260	31,890	3,221,350	247796.01
09.19.60	Gateway Turnout Structures	1.00	EA	210,510	19,700	10,830	18,200	2,460	261,700	261697.79
09.19.65	Existing Channel Improvement			381,510	38,150	20,980	35,250	4,760	480,650	
09.19.70	New Canal Landowner Takeoffs	38.00	EA	775,110	77,510	42,630	71,620	9,670	976,540	25698.49
09.19.75	Existing Canal Landowner Take	9.00	EA	158,070	15,810	8,690	14,610	1,970	199,150	22127.77
09.19.80	Pipeline Landowner Takeoffs	74.00	EA	634,980	63,500	34,920	58,670	7,920	799,990	10810.70
09.19.85	24" CMP Drop Structures	10.00	EA	13,190	1,320	730	1,220	160	16,620	1662.14

TOTAL Canals Contract Area 17		1.00	EA	15,249,410	1,484,700	816,590	1,371,860	185,200	19,107,760	19107764

09.80	On Farm Cost			65,000,000	0	0	0	0	65,000,000	

TOTAL Channels and Canals		1.00	EA	191,457,610	12220260	6,721,140	11291520	1,524,360	223,214,890	223214888

13 Pumping Plants										
13.05 Pump.Plant-P1000R-1750cfsCA01 P1										
13.05.01	Mob, Demob & Preparatory Work			54,300	5,430	2,990	5,020	680	68,410	
13.05.02	Site Work			390,400	39,040	21,470	36,070	4,870	491,860	
13.05.03	Care and Diversion of Water			815,000	81,500	44,830	75,310	10,170	1,026,800	
13.05.05	Gated Control Structure (Conc			300,750	30,070	16,540	27,790	3,750	378,900	
13.05.06	Outlet Work (Concrete)			109,530	10,950	6,020	10,120	1,370	137,990	
13.05.10	Earthwork for Structures			422,880	42,290	23,260	39,070	5,270	532,770	
13.05.18	Utilities			2,057,790	5,780	3,180	5,340	720	2,072,810	
13.05.74	Substructure (Concrete)	5602.00	CY	1,524,750	152,480	83,860	140,890	19,020	1,921,000	342.91
13.05.75	Superstructure			3,493,920	349,390	192,170	322,840	43,580	4,401,900	
13.05.76	Pumping Machinery & Appurtena			4,125,240	412,520	226,890	381,170	51,460	5,197,290	
13.05.77	Gates and Valves			1,146,530	114,650	63,060	105,940	14,300	1,444,480	
13.05.78	Auxiliary Equipment			566,330	56,630	31,150	52,330	7,060	713,500	

TOTAL Pump.Plant-P1000R-1750cfsCA01		1.00	EA	15,007,410	1,300,740	715,410	1,201,890	162,250	18,387,700	18387704

13.12 Pump.Plant-P-2000R-625cfsCA08 P2										
13.12.10	Civil	1.00	EA	472,720	47,270	26,000	43,680	5,900	595,560	595561.34
13.12.20	Structural Superstructure	1.00	EA	50,000	5,000	2,750	4,620	620	62,990	62993.70
13.12.22	Structural Substructure	1.00	EA	268,200	26,820	14,750	24,780	3,350	337,900	337898.21
13.12.30	Mechanical	1.00	EA	1,453,040	145,300	79,920	134,260	18,130	1,830,650	1830645
13.12.40	Electrical	1.00	EA	884,640	67,060	36,890	61,970	8,370	1,058,920	1058919

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TOTAL Pump.Plant-P-2000R-625cfsCA08	1.00 EA	3,128,590	291,460	160,300	269,310	36,360	3,886,020	3886017
13.16 Pump.Plant-P-3000R-260cfsCA14 P3								
13.16.10 Civil	1.00 EA	446,340	44,630	24,550	41,240	5,570	562,330	562332.16
13.16.20 Structural Superstructure	1.00 EA	50,000	5,000	2,750	4,620	620	62,990	62993.70
13.16.22 Structural Substructure	1.00 EA	134,500	13,450	7,400	12,430	1,680	169,450	169453.05
13.16.30 Mechanical	1.00 EA	500,910	50,090	27,550	46,280	6,250	631,090	631086.19
13.16.40 Electrical	1.00 EA	544,420	33,070	18,190	30,560	4,130	630,370	630371.24
TOTAL Pump.Plant-P-3000R-260cfsCA14	1.00 EA	1,676,180	146,250	80,440	135,130	18,240	2,056,240	2056236
13.22 Pump.Plant-P-2140R-125cfsCA05 P4								
13.22.10 Civil	1.00 EA	441,530	44,150	24,280	40,800	5,510	556,270	556272.17
13.22.20 Structural Superstructure	1.00 EA	30,000	3,000	1,650	2,770	370	37,800	37796.22
13.22.22 Structural Substructure	1.00 EA	89,000	8,900	4,900	8,220	1,110	112,130	112128.79
13.22.30 Mechanical	1.00 EA	334,620	33,460	18,400	30,920	4,170	421,580	421578.39
13.22.40 Electrical	1.00 EA	757,670	29,100	16,000	26,890	3,630	833,280	833280.41
TOTAL Pump.Plant-P-2140R-125cfsCA05	1.00 EA	1,652,820	118,610	65,240	109,600	14,800	1,961,060	1961056
TOTAL Pumping Plants	1.00 EA	21,465,000	1,857,060	1,021,380	1,715,920	231,650	26,291,010	26291013
19 Buildings, Grounds, & Utilities								
19.05 SITE WORK --OPER. & MAINT. BLDGS								
19.05.05 Clearing and Grubbing	5.40 AC	3,160	320	170	290	40	3,990	738.06
19.05.10 Top Soil Removal (4 inches)	2886.00 CY	1,870	190	100	170	20	2,350	0.82
19.05.15 Aggregate Base Course, Class	6490.00 TON	101,450	10,140	5,580	9,370	1,270	127,810	19.69
19.05.20 ACHM 3-1/2" Binder Course	1033.00 TON	31,800	3,180	1,750	2,940	400	40,060	38.78
19.05.25 ACHM 1-1/2" Surface Course	443.00 TON	15,320	1,530	840	1,420	190	19,300	43.57
19.05.30 Concrete Curb and Gutter	1808.00 LF	25,460	2,550	1,400	2,350	320	32,080	17.74
19.05.35 Conc Curb btw Pkg Lot & Sidew	290.00 LF	4,730	470	260	440	60	5,960	20.56
19.05.40 8" Concrete Pavement	844.00 SY	43,060	4,310	2,370	3,980	540	54,240	64.27
19.05.45 6" Concrete Pavement	116.00 SY	7,900	790	430	730	100	9,950	85.78
19.05.50 Excavation and Backfill	200.00 CY	2,990	300	160	280	40	3,770	18.84
19.05.55 4" Concrete Sidewalks	460.00 SY	27,920	2,790	1,540	2,580	350	35,170	76.46
19.05.60 Reflectorized Paint Pvmnt Mark	1310.00 LF	240	20	10	20	0	300	0.23
19.05.62 Handicapped Parking Signs	3.00 EA	150	10	10	10	0	190	62.02
19.05.64 6' Chain Link Fence	1210.00 LF	14,900	1,490	820	1,380	190	18,770	15.51
19.05.66 Gates	2.00 EA	15,490	1,550	850	1,430	190	19,510	9756.65
19.05.68 Fueling System	1.00 EA	7,760	780	430	720	100	9,780	9778.52
19.05.70 Fuel Storage Tanks (20,000 Ga	2.00 EA	26,100	2,610	1,440	2,410	330	32,880	16440.09
19.05.72 Trees	44.00 EA	31,910	3,190	1,760	2,950	400	40,200	913.71
19.05.74 Bushes	93.00 EA	2,030	200	110	190	30	2,560	27.54
19.05.76 Solid Sodding (Bermuda)	2589.00 SY	5,400	540	300	500	70	6,810	2.63

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.05.78 Seeding	1695.00 SY	10,180	1,020	560	940	130	12,830	7.57
19.05.80 Flag Poles	2.00 EA	5,120	510	280	470	60	6,450	3224.17
19.05.82 Plumbing, Water & Sewer	1.00 EA	3,800	380	210	350	50	4,780	4781.72
19.05.84 Geotextile, Riprap & Bedding	105.00 TON	5,530	550	300	510	70	6,960	66.30
19.05.86 Lay 48" RCP	132.00 LF	15,900	1,590	870	1,470	200	20,030	151.76
19.05.88 Canal Gate	2.00 EA	15,220	1,520	840	1,410	190	19,180	9588.61
19.05.90 Metal Work	1.00 EA	1,320	130	70	120	20	1,660	1664.54
19.05.92 Outlet Structure for 48" Pipe	1.00 EA	8,100	810	450	750	100	10,210	10205.64
19.05.94 Stilling Wells	2.00 EA	9,480	950	520	880	120	11,940	5971.75
19.05.96 Electrical Work, 03/14/01	1.00 EA	61,250	6,130	3,370	5,660	760	77,170	77172.04
TOTAL SITE WORK --OPER. & MAINT. BL	1.00 EA	505,540	50,550	27,800	46,710	6,310	636,910	636912.18
19.10 ADMINISTRATION BUILDING								
19.10.05 BUILDING SITE ADMIN. BLDG	1.00 EA	39,910	3,990	2,200	3,690	500	50,280	50283.11
19.10.10 CONCRETE	1.00 EA	50,650	5,070	2,790	4,680	630	63,820	63818.64
19.10.15 MASONRY	1.00 EA	98,160	9,820	5,400	9,070	1,220	123,670	123666.41
19.10.20 METALS	1.00 EA	92,740	9,270	5,100	8,570	1,160	116,840	116841.05
19.10.25 METALS & PLASTICS	1.00 EA	49,430	4,940	2,720	4,570	620	62,280	62276.80
19.10.30 THERMAL AND MOISTURE PROTECTI	1.00 EA	85,160	8,520	4,680	7,870	1,060	107,290	107294.22
19.10.35 DOORS AND WINDOWS	1.00 EA	62,050	6,200	3,410	5,730	770	78,170	78170.94
19.10.40 FINISHES	1.00 EA	150,950	15,090	8,300	13,950	1,880	190,180	190176.43
19.10.45 SPECIALTIES	1.00 EA	31,220	3,120	1,720	2,880	390	39,330	39334.93
19.10.50 SPECIAL CONSTRUCTION	1.00 EA	8,390	840	460	780	100	10,570	10573.87
19.10.55 MECHANICAL	1.00 EA	114,240	11,420	6,280	10,560	1,430	143,930	143933.83
19.10.60 ELECTRICAL	1.00 EA	391,040	39,100	21,510	36,130	4,880	492,660	492659.29
TOTAL ADMINISTRATION BUILDING	1.00 EA	1,173,950	117,400	64,570	108,470	14,640	1,479,030	1479030
19.15 MAINTENANCE BUILDING								
19.15.05 SITE	1.00 EA	27,230	2,720	1,500	2,520	340	34,310	34307.97
19.15.10 CONCRETE	1.00 EA	30,020	3,000	1,650	2,770	370	37,820	37821.42
19.15.15 METALS	1.00 EA	16,050	1,600	880	1,480	200	20,220	20220.80
19.15.20 WOOD & PLASTICS	1.00 EA	23,480	2,350	1,290	2,170	290	29,590	29586.57
19.15.25 THERMAL & MOISTURE PROOFING	1.00 EA	2,810	280	150	260	40	3,550	3545.96
19.15.30 DOORS AND WINDOWS	1.00 EA	29,550	2,950	1,630	2,730	370	37,230	37227.73
19.15.35 FINISHES	1.00 EA	38,460	3,850	2,120	3,550	480	48,450	48451.42
19.15.40 SPECIALTIES	1.00 EA	4,860	490	270	450	60	6,120	6119.70
19.15.45 SPECIAL CONSTRUCTION	1.00 EA	52,990	5,300	2,910	4,900	660	66,770	66766.64
19.15.50 MECHANICAL	1.00 EA	20,210	2,020	1,110	1,870	250	25,460	25457.80
19.15.55 ELECTRICAL	1.00 EA	92,610	9,260	5,090	8,560	1,160	116,670	116671.21
TOTAL MAINTENANCE BUILDING	1.00 EA	338,270	33,830	18,600	31,260	4,220	426,180	426177.20
19.20 Radio House Structure								

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.20. 1 Radio Tower Structure	1.00	EA	14,590	1,460	800	1,350	180	18,380	18382.60
19.20. 2 Radio Tower Concrete Base	20.00	CY	3,480	350	190	320	40	4,380	219.17
19.20. 3 Electrical Control Building	1.00	EA	53,270	5,330	2,930	4,920	660	67,110	67111.35
19.20. 4 Electrical	1.00	EA	72,280	7,230	3,980	6,680	900	91,070	91067.39
19.20. 5 Generator & Auto Transfer Sw	1.00	EA	18,260	1,830	1,000	1,690	230	23,010	23006.82
TOTAL Radio House Structure	1.00	EA	161,880	16,190	8,900	14,960	2,020	203,950	203951.53
19.25 Irrigation Sytem Controls/Comm									
19.25.10 Fiber Optic Backbone	1.00	EA	1,075,660	107,570	59,160	99,390	13,420	1,355,200	1355201
19.25.20 Radio Link Component	1.00	EA	397,160	39,720	21,840	36,700	4,950	500,370	500371.56
TOTAL Irrigation Sytem Controls/Com	1.00	EA	1,472,820	147,280	81,010	136,090	18,370	1,855,570	1855572
TOTAL Buildings,Grounds, & Utilitie	1.00	EA	3,652,460	365,250	200,890	337,490	45,560	4,601,640	4601643
30 Planning, Engineering and Design	217764890	DOL	21,776,490	0	0	0	0	21,776,490	0.10
31 Construction Management	217764890	DOL	13,065,890	0	0	0	0	13,065,890	0.06
TOTAL Bayou Meto Feas.Est.28 Apr.20	1.00	EA	292,013,660	16717190	9,194,450	15446680	2,085,300	335,457,280	335457284
Contingency								30,312,870	
TOTAL INCL OWNER COSTS								365,770,160	

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
01 Lands and Damages										
01.25	Real Estate			16,900,000	0	0	0	0	16,900,000	
01.30	Mitigation			950,000	0	0	0	0	950,000	
	TOTAL Lands and Damages	1.00	EA	17,850,000	0	0	0	0	17,850,000	17850000
02 Relocations										
02.11 Contract Area 2										
02.11.01 Roads, Construction Activitie										
02.11.01.10	Bridge Relocations New Ch.	6.00	EA	2,730,100	273,010	150,160	252,260	34,060	3,439,580	573263.67
02.11.01.15	Bridge Relocations New Ch.	3.00	EA	951,050	95,110	52,310	87,880	11,860	1,198,200	399401.06
	TOTAL Roads, Construction Activi	1.00	EA	3,681,150	368,120	202,460	340,140	45,920	4,637,790	4637785
02.11.10 Cemetery, Utilities, & Struct										
02.11.10.20	Power Line Relocation New	4.00	EA	69,000	6,900	3,800	6,380	860	86,930	21732.83
02.11.10.23	Power Line Reloc. New Chan	3.00	EA	51,750	5,180	2,850	4,780	650	65,200	21732.83
02.11.10.35	Pipe Line Relocations Ch.	6.00	EA	171,350	17,140	9,420	15,830	2,140	215,880	35979.90
02.11.10.36	Pipe Line Relocations Ch.	1.00	EA	4,600	460	250	430	60	5,800	5795.42
02.11.10.40	Telephone Cable Rel. New C	6.00	EA	129,950	12,990	7,150	12,010	1,620	163,720	27286.77
02.11.10.45	Telephone Cable Rel.New Ch	2.00	EA	23,000	2,300	1,270	2,130	290	28,980	14488.55
02.11.10.50	TV Cable Relocation New Ch	1.00	EA	2,300	230	130	210	30	2,900	2897.71
	TOTAL Cemetery, Utilities, & Str	1.00	EA	451,950	45,190	24,860	41,760	5,640	569,400	569400.03
	TOTAL Contract Area 2	1.00	EA	4,133,100	413,310	227,320	381,900	51,560	5,207,190	5207185
02.13 Contract Area 4										
02.13.01 Roads, Construction Activitie										
02.13.01.10	Bridge Relocations New Ch.	2.00	EA	759,000	75,900	41,750	70,130	9,470	956,240	478122.18
02.13.01.12	Bridge Relocations New Ch.	1.00	EA	401,350	40,140	22,070	37,080	5,010	505,650	505650.43
	TOTAL Roads, Construction Activi	1.00	EA	1,160,350	116,040	63,820	107,220	14,470	1,461,890	1461895
02.13.10 Cemetery, Utilities, & Struct										
02.13.10.20	Power Line Relocation New	2.00	EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.13.10.25	Power Line RelocationNew C	2.00	EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.13.10.35	Pipe Line RelocationsNew C	2.00	EA	150,650	15,070	8,290	13,920	1,880	189,800	94900.01

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02.13.10.37	Pipe Line RelocationsNew C		143,750	14,380	7,910	13,280	1,790	181,110	
02.13.10.40	Telephone Cable Rel.New Ch	3.00 EA	97,750	9,770	5,380	9,030	1,220	123,150	41050.89
02.13.10.43	Telephone Cable Rel.New Ch	2.00 EA	23,000	2,300	1,270	2,130	290	28,980	14488.55
TOTAL Cemetery, Utilities, & Str		1.00 EA	484,150	48,410	26,630	44,740	6,040	609,970	609967.98
TOTAL Contract Area 4		1.00 EA	1,644,500	164,450	90,450	151,950	20,510	2,071,860	2071863
02.14 Contract Area 5									
02.14.01 Roads, Construction Activitie									
02.14.01.10	Bridge Relocations New Ch	4.00 EA	1,520,300	152,030	83,620	140,480	18,960	1,915,390	478846.61
02.14.01.15	Bridge Relocations New Ch2	3.00 EA	534,750	53,480	29,410	49,410	6,670	673,720	224572.54
TOTAL Roads, Construction Activi		1.00 EA	2,055,050	205,510	113,030	189,890	25,630	2,589,100	2589104
02.14.10 Cemetery, Utilities, & Struct									
02.14.10.20	Power Line Relocation New	2.00 EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.14.10.25	Power Line Relocation New	2.00 EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.14.10.35	Pipe Line Relocations New	4.00 EA	25,300	2,530	1,390	2,340	320	31,870	7968.70
02.14.10.37	Pipe Line Relocations New	2.00 EA	13,800	1,380	760	1,280	170	17,390	8693.13
02.14.10.40	Telephone Cable Rel.New Ch	3.00 EA	34,500	3,450	1,900	3,190	430	43,470	14488.55
02.14.10.45	Telephone Cable Rel.New Ch	2.00 EA	23,000	2,300	1,270	2,130	290	28,980	14488.55
TOTAL Cemetery, Utilities, & Str		1.00 EA	165,600	16,560	9,110	15,300	2,070	208,640	208635.13
TOTAL Contract Area 5		1.00 EA	2,220,650	222,070	122,140	205,190	27,700	2,797,740	2797739
02.15 Contract Area 6									
02.15.01 Roads, Construction Activitie									
02.15.01.10	Bridge Relocations New Ch2	2.00 EA	440,450	44,050	24,220	40,700	5,490	554,910	277455.75
02.15.01.15	Bridge Relocations Exist C	2.00 EA	249,550	24,960	13,730	23,060	3,110	314,400	157200.78
02.15.01.20	Bridge Relocations New Ch	2.00 EA	281,750	28,180	15,500	26,030	3,510	354,970	177484.75
TOTAL Roads, Construction Activi		1.00 EA	971,750	97,180	53,450	89,790	12,120	1,224,280	1224283
02.15.10 Cemetery, Utilities, & Struct									
02.15.10.20	Power Line Relocation New	3.00 EA	51,750	5,180	2,850	4,780	650	65,200	21732.83
02.15.10.23	Power Line Relocation New	1.00 EA	17,250	1,730	950	1,590	220	21,730	21732.83
02.15.10.25	Power Line Rel. Exist. Ch	2.00 EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.15.10.37	Pipe Line Relocations New	1.00 EA	6,900	690	380	640	90	8,690	8693.13
02.15.10.40	Telephone Cable Rel. New C	1.00 EA	11,500	1,150	630	1,060	140	14,490	14488.55

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
02.15.10.42 Telephone Cable Rel. New C	1.00	EA	11,500	1,150	630	1,060	140	14,490	14488.55
02.15.10.43 Telephone Cable Rel.Exist	1.00	EA	11,500	1,150	630	1,060	140	14,490	14488.55
TOTAL Cemetery, Utilities, & Str	1.00	EA	144,900	14,490	7,970	13,390	1,810	182,560	182555.74
TOTAL Contract Area 6	1.00	EA	1,116,650	111,670	61,420	103,180	13,930	1,406,840	1406838
02.17 Contract Area 7B									
02.17.01 Roads, Construction Activitie									
02.17.01.10 Bridge Relocations New Ch	1.00	EA	195,500	19,550	10,750	18,060	2,440	246,310	246305.37
02.17.01.20 Bridge Relocations New Ch	4.00	EA	739,450	73,940	40,670	68,330	9,220	931,610	232903.45
TOTAL Roads, Construction Activi	1.00	EA	934,950	93,490	51,420	86,390	11,660	1,177,920	1177919
02.17.10 Cemetery, Utilities, & Struct									
02.17.10.20 Power Line Relocation New	1.00	EA	17,250	1,730	950	1,590	220	21,730	21732.83
02.17.10.23 Power Line Relocation New	3.00	EA	51,750	5,180	2,850	4,780	650	65,200	21732.83
02.17.10.35 Pipe Line Relocations New	2.00	EA	11,500	1,150	630	1,060	140	14,490	7244.28
02.17.10.37 Pipe Line Relocations New	3.00	EA	16,100	1,610	890	1,490	200	20,280	6761.32
02.17.10.40 Telephone Cable Rel. New C	1.00	EA	11,500	1,150	630	1,060	140	14,490	14488.55
02.17.10.43 Telephone Cable Rel. New C	3.00	EA	34,500	3,450	1,900	3,190	430	43,470	14488.55
TOTAL Cemetery, Utilities, & Str	1.00	EA	142,600	14,260	7,840	13,180	1,780	179,660	179658.03
TOTAL Contract Area 7B	1.00	EA	1,077,550	107,750	59,270	99,570	13,440	1,357,580	1357577
02.18 Contract Area 9									
02.18.01 Roads, Construction Activitie									
02.18.01.10 Bridge Relocations New Ch	5.00	EA	1,562,850	156,290	85,960	144,410	19,490	1,968,990	393798.82
02.18.01.15 Bridge Relocations New Ch	2.00	EA	410,550	41,060	22,580	37,930	5,120	517,240	258620.64
TOTAL Roads, Construction Activi	1.00	EA	1,973,400	197,340	108,540	182,340	24,620	2,486,240	2486235
02.18.10 Cemetery, Utilities, & Struct									
02.18.10.20 Power Line Relocation New	4.00	EA	69,000	6,900	3,800	6,380	860	86,930	21732.83
02.18.10.23 Power Line Relocation New	2.00	EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.18.10.35 Pipe Line Relocations New	3.00	EA	16,100	1,610	890	1,490	200	20,280	6761.32
02.18.10.37 Pipe Line Relocations New	2.00	EA	11,500	1,150	630	1,060	140	14,490	7244.28
02.18.10.40 Telephone Cable Rel. New C	3.00	EA	34,500	3,450	1,900	3,190	430	43,470	14488.55
02.18.10.43 Telephone Cable Rel. New C	2.00	EA	23,000	2,300	1,270	2,130	290	28,980	14488.55

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TOTAL Cemetery, Utilities, & Str	1.00	EA	188,600	18,860	10,370	17,430	2,350	237,610	237612.24
TOTAL Contract Area 9	1.00	EA	2,162,000	216,200	118,910	199,770	26,970	2,723,850	2723848
02.19 Contract Area 10									
02.19.01 Roads, Construction Activitie									
02.19.01.10 Bridge Relocations New Ch			4,107,100	410,710	225,890	379,500	51,230	5,174,430	
TOTAL Roads, Construction Activi	1.00	EA	4,107,100	410,710	225,890	379,500	51,230	5,174,430	5174428
02.19.10 Cemetery, Utilities, & Struct									
02.19.10.20 Power Line Relocation New	7.00	EA	120,750	12,080	6,640	11,160	1,510	152,130	21732.83
02.19.10.35 Pipe Line Relocations New	5.00	EA	29,900	2,990	1,640	2,760	370	37,670	7534.05
02.19.10.40 Telephone Cable Rel. New C	5.00	EA	120,750	12,080	6,640	11,160	1,510	152,130	30425.96
TOTAL Cemetery, Utilities, & Str	1.00	EA	271,400	27,140	14,930	25,080	3,390	341,930	341929.80
TOTAL Contract Area 10	1.00	EA	4,378,500	437,850	240,820	404,570	54,620	5,516,360	5516358
02.24 Contract Area 15									
02.24.01 Roads, Construction Activitie									
02.24.01.10 Bridge Relocations New Ch	2.00	EA	635,950	63,600	34,980	58,760	7,930	801,220	400608.44
02.24.01.15 Bridge Relocations New Ch.	1.00	EA	190,900	19,090	10,500	17,640	2,380	240,510	240509.95
TOTAL Roads, Construction Activi	1.00	EA	826,850	82,690	45,480	76,400	10,310	1,041,730	1041727
02.24.10 Cemetery, Utilities, & Struct									
02.24.10.20 Power Line Relocat. New Ch	2.00	EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.24.10.23 Power Line Relocat. New Ch	2.00	EA	34,500	3,450	1,900	3,190	430	43,470	21732.83
02.24.10.35 Pipe Line Relocat. New Ch.	2.00	EA	11,500	1,150	630	1,060	140	14,490	7244.28
02.24.10.37 Pipe Line Relocat. New Ch.	1.00	EA	4,600	460	250	430	60	5,800	5795.42
02.24.10.40 Telephone Cable Rel. New C	2.00	EA	23,000	2,300	1,270	2,130	290	28,980	14488.55
02.24.10.43 Telephone Cable Rel.New Ch	1.00	EA	11,500	1,150	630	1,060	140	14,490	14488.55
TOTAL Cemetery, Utilities, & Str	1.00	EA	119,600	11,960	6,580	11,050	1,490	150,680	150680.93
TOTAL Contract Area 15	1.00	EA	946,450	94,650	52,050	87,450	11,810	1,192,410	1192408
02.26 Contract Area 17									

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** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
02.26.01 Roads, Construction Activitie										
02.26.01.10	Bridge Relocations Exist.C	4.00	EA	466,900	46,690	25,680	43,140	5,820	588,240	147058.79
02.26.01.15	Bridge Relocations New Ch.	7.00	EA	1,491,550	149,160	82,040	137,820	18,610	1,879,170	268452.15
02.26.01.20	Bridge Relocations New Ch.	5.00	EA	748,650	74,870	41,180	69,180	9,340	943,200	188640.93
TOTAL Roads, Construction Activi		1.00	EA	2,707,100	270,710	148,890	250,140	33,770	3,410,600	3410605
02.26.10 Cemetery, Utilities, & Struct										
02.26.10.20	Power Line Relocat.Exist.C	4.00	EA	69,000	6,900	3,800	6,380	860	86,930	21732.83
02.26.10.22	Power Line Relocat.New Ch.	7.00	EA	120,750	12,080	6,640	11,160	1,510	152,130	21732.83
02.26.10.23	Power Line Relocat. New Ch	6.00	EA	103,500	10,350	5,690	9,560	1,290	130,400	21732.83
02.26.10.35	Pipe Line Relocat.Exist. C	2.00	EA	11,500	1,150	630	1,060	140	14,490	7244.28
02.26.10.37	Pipe Line Relocat. New Ch.	7.00	EA	331,200	33,120	18,220	30,600	4,130	417,270	59610.04
02.26.10.38	Pipe Line Relocat. New Ch.	6.00	EA	326,600	32,660	17,960	30,180	4,070	411,470	68579.14
02.26.10.40	Telephone Cable Rel.Exist.	3.00	EA	34,500	3,450	1,900	3,190	430	43,470	14488.55
02.26.10.43	Telephone Cable Rel.New Ch	6.00	EA	69,000	6,900	3,800	6,380	860	86,930	14488.55
02.26.10.44	Telephone Cable Rel.New Ch	4.00	EA	46,000	4,600	2,530	4,250	570	57,950	14488.55
TOTAL Cemetery, Utilities, & Str		1.00	EA	1,112,050	111,210	61,160	102,750	13,870	1,401,040	1401043
TOTAL Contract Area 17		1.00	EA	3,819,150	381,920	210,050	352,890	47,640	4,811,650	4811648
TOTAL Relocations		1.00	EA	21,498,550	2,149,850	1,182,420	1,986,470	268,170	27,085,460	27085464
03 Reservoirs										
03.10 Reservoirs--R1000--CA1										
03.10.01	Mob, Demob & Preparatory Work			25,000	2,500	1,380	2,310	310	31,500	
03.10.02	Drainage	200.00	HR	1,020	100	60	90	10	1,280	6.42
03.10.03	Turfing Impoundment Levees	15.00	AC	11,520	1,150	630	1,060	140	14,510	967.42
03.10.04 Embankment										
03.10.04.01	Load and haul 1st 1000'	253300.00	CY	213,660	21,370	11,750	19,740	2,670	269,180	1.06
03.10.04.02	Haul 2nd and 3rd 1000'	506600.00	UCY	160,790	16,080	8,840	14,860	2,010	202,580	0.40
TOTAL Embankment		253300.00	CY	374,450	37,450	20,590	34,600	4,670	471,760	1.86
03.10.48	Clearing and Debris Removal	28.00	AC	25,280	2,530	1,390	2,340	320	31,850	1137.45
03.10.60 Access Road and Parking										
03.10.60.01	Embankment	26289.00	CY	46,380	4,640	2,550	4,290	580	58,440	2.22
03.10.60.02	Gravel	2264.00	CY	43,410	4,340	2,390	4,010	540	54,690	24.16
TOTAL Access Road and Parking		1.00	EA	89,790	8,980	4,940	8,300	1,120	113,130	113126.98

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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03.10.70 Clearing Borrow and Haul Road	18.00 AC	16,250	1,630	890	1,500	200	20,470	1137.45
03.10.80 Turfing Haul Roads	8.00 AC	6,140	610	340	570	80	7,740	967.42
TOTAL Reservoirs--R1000--CA1	35.00 ACR	549,460	54,950	30,220	50,770	6,850	692,250	19778.46
03.30 Reservoirs--R2500/3000--CA8								
03.30.01 Clearing and Grubbing	23.00 ACR	20,770	2,080	1,140	1,920	260	26,160	1137.45
TOTAL Clearing and Grubbing	23.00 ACR	20,770	2,080	1,140	1,920	260	26,160	1137.45
03.30.02 Impoundment Levee								
03.30.02.01 Load and Haul 1st 1000'	271650.00 CY	229,140	22,910	12,600	21,170	2,860	288,680	1.06
TOTAL Impoundment Levee	271650.00 CY	229,140	22,910	12,600	21,170	2,860	288,680	1.06
03.30.03 Turfing Impoundment Levees	15.00 ACR	10,000	1,000	550	920	120	12,600	840.05
03.30.04 Care of Water	500.00 HR	2,550	250	140	240	30	3,210	6.42
03.30.05 Clearing Borrow and Haul Road	14.00 AC	12,640	1,260	700	1,170	160	15,920	1137.45
03.30.06 Turfing Haul Roads	8.00 AC	6,140	610	340	570	80	7,740	967.42
03.30.07 MOB and Demob		20,000	2,000	1,100	1,850	250	25,200	
TOTAL Reservoirs--R2500/3000--CA	29.00 ACR	301,240	30,120	16,570	27,830	3,760	379,520	13086.85
03.40 Reservoirs--R4000--CA14								
03.40.01 Mob, Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
03.40.02 Drainage	600.00 HR	19,510	1,950	1,070	1,800	240	24,580	40.96
03.40.03 Embankment								
03.40.03.01 Excavate and Haul 1st 1000	28354.00 CY	23,920	2,390	1,320	2,210	300	30,130	1.06
TOTAL Embankment	28354.00 CY	23,920	2,390	1,320	2,210	300	30,130	1.06
03.40.04 Turfing Impoundment Levees	5.00 AC	3,840	380	210	350	50	4,840	967.42
03.40.05 Excavation of Excess Material								
03.40.05.01 Excavation and Haul 1st 10	206212.00 UCY	173,940	17,390	9,570	16,070	2,170	219,140	1.06
03.40.05.02 Exca and Haul 2nd and 3rd	412424.00 UCY	130,900	13,090	7,200	12,100	1,630	164,920	0.40
TOTAL Excavation of Excess Mater	206212.00 CY	304,840	30,480	16,770	28,170	3,800	384,060	1.86
03.40.48 Clearing and Debris Removal	22.00 AC	19,860	1,990	1,090	1,840	250	25,020	1137.45

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TOTAL Reservoirs--R4000--CA14	27.00 ACR	396,970	39,700	21,830	36,680	4,950	500,130	18523.30
TOTAL Reservoirs	91.00 ACR	1,247,660	124,770	68,620	115,280	15,560	1,571,890	17273.56
09 Channels and Canals								
09.01 Canals Contract Area 1								
09.01.01 Mob, Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
TOTAL Mob, Demob & Preparatory W		20,000	2,000	1,100	1,850	250	25,200	
09.01.10 Canal Excavation								
09.01.10.01 Canal Excavation ID-500	422200.00 CY	470,230	47,020	25,860	43,450	5,870	592,420	1.40
TOTAL Canal Excavation	422200.00 CY	470,230	47,020	25,860	43,450	5,870	592,420	1.40
09.01.15 Riprap and Filter								
09.01.15.01 Riprap R200	6500.00 TON	121,850	12,180	6,700	11,260	1,520	153,510	23.62
09.01.15.02 Filter Stone	1626.00 TON	25,230	2,520	1,390	2,330	310	31,790	19.55
TOTAL Riprap and Filter	8126.00 TON	147,080	14,710	8,090	13,590	1,830	185,300	22.80
09.01.30 Check Structures								
09.01.30.01 Check Structure C-1000R	1.00 EA	1,218,800	111,880	61,530	103,380	13,960	1,509,540	1509545
TOTAL Check Structures	1.00 EA	1,218,800	111,880	61,530	103,380	13,960	1,509,540	1509545
TOTAL Canals Contract Area 1	1.00 EA	1,856,100	175,610	96,590	162,260	21,910	2,312,470	2312466
09.02 Canals Contract Area 2								
09.02.01 Mob, Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W		50,000	5,000	2,750	4,620	620	62,990	
09.02.10 Canal Excavation								
09.02.10.01 Canal Excavation ID-1000	1791000 CY	2,280,010	228,000	125,400	210,670	28,440	2,872,530	1.60
09.02.10.03 Canal Excavation ID 2000	427000.00 CY	637,410	63,740	35,060	58,900	7,950	803,060	1.88
TOTAL Canal Excavation	2188000 CY	2,917,430	291,740	160,460	269,570	36,390	3,675,590	1.68

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09.02.25 Pumps										
09.02.25.01	Pumps P1000.01	1HP		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.02	Pumps P1000.02	0.75HP		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.03	Pumps P1000.03	2HP		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.05	Pumps P1000.04	2HP		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.06	Pumps P2000.01	0.75HP		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.11	Pumps P2000.02	(3HP)		83,370	6,830	3,760	6,310	850	101,110	
09.02.25.12	Pumps P2000.03	15HP		116,600	9,310	5,120	8,600	1,160	140,790	
09.02.25.20	Pumps P2300	15HP		116,600	9,310	5,120	8,600	1,160	140,790	
TOTAL Pumps			8.00 EA	733,410	59,590	32,770	55,060	7,430	888,270	111033.36
09.02.30 Check Structures										
09.02.30.01	Check Structure C-1000.1		1.00 EA	1,378,040	127,800	70,290	118,090	15,940	1,710,170	1710174
09.02.30.02	Check Structure C-1000.2		1.00 EA	1,160,650	106,060	58,340	98,000	13,230	1,436,290	1436285
09.02.30.03	Check Structure C-2000.1		1.00 EA	971,240	89,620	49,290	82,810	11,180	1,204,150	1204152
TOTAL Check Structures			3.00 EA	3,509,940	323,490	177,920	298,910	40,350	4,350,610	1450204
09.02.50 Inverted Siphons										
09.02.50.02	Siphon, 1000-02, 2 each, 9		269.00 LF	290,920	29,090	16,000	26,880	3,630	366,520	1362.52
09.02.50.03	Siphon, 1000-04, 1 each, 7		314.00 LF	116,130	11,610	6,390	10,730	1,450	146,310	465.97
09.02.50.05	Siphon, 1000-05, 2 each, 4		269.00 LF	86,570	8,660	4,760	8,000	1,080	109,070	405.45
09.02.50.06	Siphon, 1000-06, 2 each, 8		211.00 LF	189,120	18,910	10,400	17,470	2,360	238,260	1129.21
09.02.50.07	Siphon, 1000-07, 4 each, 9		200.00 LF	408,650	40,870	22,480	37,760	5,100	514,850	2574.24
09.02.50.08	Siphon, 1000-08, 6 each, 9		220.00 LF	746,190	74,620	41,040	68,950	9,310	940,100	4273.19
09.02.50.09	Siphon, 1000-09, 3 each, 6		200.00 LF	179,030	17,900	9,850	16,540	2,230	225,550	1127.76
09.02.50.10	Siphon, 1000-10, 2 each, 4		200.00 LF	68,790	6,880	3,780	6,360	860	86,670	433.36
09.02.50.11	Siphon, 1000-11, 8 each, 9		343.00 LF	1,385,340	138,530	76,190	128,010	17,280	1,745,360	5088.51
09.02.50.12	Siphon, 2000-01, 1 each, 7		205.00 LF	83,990	8,400	4,620	7,760	1,050	105,820	516.19
09.02.50.13	Siphon, 2000-02, 2 each, 5		205.00 LF	84,480	8,450	4,650	7,810	1,050	106,440	519.22
09.02.50.14	Siphon, 2000-03, 2 each, 4		240.00 LF	67,090	6,710	3,690	6,200	840	84,530	352.20
09.02.50.15	Siphon, 2000-04, 2 each, 4		205.00 LF	59,370	5,940	3,270	5,490	740	74,790	364.85
TOTAL Inverted Siphons			13.00 EA	3,765,670	376,570	207,110	347,950	46,970	4,744,270	364944.14
09.02.70 New Canal Landowner Takeoffs										
09.02.70.05	Excavation for Pipe		1751.23 CY	1,530	150	80	140	20	1,920	1.10
09.02.70.10	Place Pipe Bedding		47.50 CY	630	60	30	60	10	790	16.71
09.02.70.15	Install 24" Pipe		950.00 LF	81,730	8,170	4,490	7,550	1,020	102,960	108.38
09.02.70.20	24" Dresser Coupling @ Inta		19.00 EA	11,860	1,190	650	1,100	150	14,940	786.31
09.02.70.25	Intake Structure for 24" P		19.00 EA	23,790	2,380	1,310	2,200	300	29,970	1577.17
09.02.70.30	24" Intake Bar Screen		7885.00 LBS	18,420	1,840	1,010	1,700	230	23,200	2.94
09.02.70.35	24" Gate Valve		19.00 EA	149,110	14,910	8,200	13,780	1,860	187,860	9887.12

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09.02.70.40 Valve box	19.00 EA	950	100	50	90	10	1,200	62.99
09.02.70.45 Excavate for pumpwell	1710.00 CY	1,660	170	90	150	20	2,090	1.22
09.02.70.50 Install 24" Pumpwell	19.00 EA	66,020	6,600	3,630	6,100	820	83,180	4377.99
09.02.70.55 24" Dresser Coupling @ Pum	19.00 EA	11,860	1,190	650	1,100	150	14,940	786.31
09.02.70.60 Backfill and Compaction	3420.00 CY	5,870	590	320	540	70	7,400	2.16
09.02.70.70 Flow Meter, Purchase Cost	19.00 EA	14,310	1,430	790	1,320	180	18,030	948.94
TOTAL New Canal Landowner Takeof	19.00 EA	387,720	38,770	21,320	35,830	4,840	488,470	25709.18

09.02.80 Pipeline Landowner Takeoffs

09.02.80.05 Excavation for Pipe	36.00 CY	30	0	0	0	0	40	1.10
09.02.80.10 Place Pipe Bedding	1.11 CY	10	0	0	0	0	20	16.71
09.02.80.15 Install 12" DI Pipe	30.00 LF	730	70	40	70	10	920	30.79
09.02.80.20 12" Dresser Coupling @ Inta	3.00 EA	1,030	100	60	100	10	1,300	432.92
09.02.80.25 Intake Structure for 12" P	3.00 EA	2,580	260	140	240	30	3,250	1082.91
09.02.80.30 12" Intake Bar Screen	807.00 LBS	1,880	190	100	170	20	2,370	2.94
09.02.80.35 12" Gate Valve	3.00 EA	4,820	480	260	450	60	6,070	2022.83
09.02.80.40 Valve box	3.00 EA	150	20	10	10	0	190	62.99
09.02.80.45 Excavate for pumpwell	270.00 CY	260	30	10	20	0	330	1.22
09.02.80.50 Install 24" Pumpwell	3.00 EA	10,420	1,040	570	960	130	13,130	4377.99
09.02.80.55 12" Dresser Coupling @ Pum	3.00 EA	1,030	100	60	100	10	1,300	432.92
09.02.80.60 Backfill and Compaction	306.00 CY	530	50	30	50	10	660	2.16
09.02.80.70 Flow Meter, Purchase Cost	3.00 EA	2,260	230	120	210	30	2,850	948.94
TOTAL Pipeline Landowner Takeoff	3.00 EA	25,740	2,570	1,420	2,380	320	32,430	10810.71
TOTAL Canals Contract Area 2	1.00 EA	11,389,900	1,097,740	603,760	1,014,310	136,930	14,242,640	14242644

09.03 Canals Contract Area 3A

09.03.01 Mob, Demob & Preparatory Work	50,000	5,000	2,750	4,620	620	62,990
TOTAL Mob, Demob & Preparatory W	50,000	5,000	2,750	4,620	620	62,990

09.03.15 Existing Channel Improvements

09.03.15.01 Channel Exc Indian Bayou I	213600.00 CY	516,110	51,610	28,390	47,690	6,440	650,230	3.04
TOTAL Existing Channel Improveme		516,110	51,610	28,390	47,690	6,440	650,230	

09.03.20 Pipe Lines

09.03.20.01 Pipe Line 1500.01, (18"&33	20864.00 LF	1,000,520	100,050	55,030	92,450	12,480	1,260,530	60.42
09.03.20.02 Pipe Line 1500.011, (12	3473.00 LF	17,330	1,730	950	1,600	220	21,830	6.29
09.03.20.03 Pipe Line 1500.012,(12"&15	7681.00 LF	55,300	5,530	3,040	5,110	690	69,670	9.07
09.03.20.04 Pipe Line 1500.0121, (12	2659.00 LF	13,730	1,370	760	1,270	170	17,300	6.51

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09.03.20.05	Pipe Line 1500.013,	(12	12231.00 LF	61,020	6,100	3,360	5,640	760	76,880	6.29		
09.03.20.06	Pipe Line 1500.0131,	(12	1785.00 LF	8,910	890	490	820	110	11,220	6.29		
09.03.20.07	Pipe Line 1500.014,(12"&18		14482.00 LF	116,590	11,660	6,410	10,770	1,450	146,890	10.14		
09.03.20.08	Pipe Line 1500.0141,	(12	6907.00 LF	33,840	3,380	1,860	3,130	420	42,640	6.17		
09.03.20.09	Pipe Line 1500.0142,	(12	1402.00 LF	6,870	690	380	630	90	8,660	6.17		
09.03.20.10	Pipe Line 1500.0143,	(12	238.00 LF	1,170	120	60	110	10	1,470	6.17		
09.03.20.11	Pipe Line 1500.02,(30"&36		14185.00 LF	885,310	88,530	48,690	81,800	11,040	1,115,380	78.63		
09.03.20.12	Pipe Line 1500.021,	(33	18874.00 LF	1,184,860	118,490	65,170	109,480	14,780	1,492,780	79.09		
09.03.20.14	Pipe Line 1500.03,(18"&33		29325.00 LF	1,605,090	160,510	88,280	148,310	20,020	2,022,210	68.96		
09.03.20.15	Pipe Line 1500.031,	(12	2912.00 LF	14,270	1,430	780	1,320	180	17,980	6.17		
09.03.20.16	Pipe Line 1500.032,	(12	6171.00 LF	30,240	3,020	1,660	2,790	380	38,100	6.17		
09.03.20.17	Pipe Line 1500.033,	(12	3987.00 LF	19,540	1,950	1,070	1,810	240	24,610	6.17		
09.03.20.18	Pipe Line 1500.034,	(18	1364.00 LF	14,890	1,490	820	1,380	190	18,760	13.75		
09.03.20.19	Pipe Line 1500.04,	(12	18262.00 LF	103,010	10,300	5,670	9,520	1,280	129,780	7.11		
09.03.20.20	Pipe Line 1500.041,	(12	2677.00 LF	13,120	1,310	720	1,210	160	16,530	6.17		
09.03.20.21	Pipe Line 1500.05,	(36	19463.00 LF	1,425,550	142,550	78,410	131,720	17,780	1,796,010	92.28		
09.03.20.22	Pipe Line 1500.051,	(12	13873.00 LF	72,750	7,270	4,000	6,720	910	91,650	6.61		
09.03.20.26	Pipe Line 1500.0514,	(12	5263.00 LF	30,560	3,060	1,680	2,820	380	38,500	7.32		
09.03.20.27	Pipe Line 1500.052,	(12	1369.00 LF	6,710	670	370	620	80	8,450	6.17		
09.03.20.28	Pipe Line 1500.053,	(18	8712.00 LF	101,890	10,190	5,600	9,410	1,270	128,370	14.73		
09.03.20.29	Pipe Line 1500.054,(24"&30		13305.00 LF	500,220	50,020	27,510	46,220	6,240	630,220	47.37		
09.03.20.30	Pipe Line 1500.0541,	(12	6645.00 LF	32,560	3,260	1,790	3,010	410	41,020	6.17		
09.03.20.31	Pipe Line 1500.05411,	(12	4318.00 LF	21,160	2,120	1,160	1,960	260	26,660	6.17		
09.03.20.32	Pipe Line 1500.05412,	(12	6039.00 LF	38,610	3,860	2,120	3,570	480	48,640	8.05		
09.03.20.33	Pipe Line 1500.054121,	(12	1351.00 LF	11,130	1,110	610	1,030	140	14,020	10.38		
09.03.20.34	Pipe Line 1500.06,(15"&18		10451.00 LF	100,260	10,030	5,510	9,260	1,250	126,320	12.09		
09.03.20.35	Pipe Line 1500.061,	(12	2641.00 LF	12,940	1,290	710	1,200	160	16,300	6.17		
09.03.20.36	Pipe Line 1500.07,	(12	142.00 LF	700	70	40	60	10	880	6.17		
09.03.20.37	Pipe Line 1500.08,	(15	13704.00 LF	116,480	11,650	6,410	10,760	1,450	146,750	10.71		
09.03.20.38	Pipe Line 1500.081,	(15	1337.00 LF	10,280	1,030	570	950	130	12,950	9.68		
09.03.20.39	Pipe Line 1500.09,	(12	2764.00 LF	13,540	1,350	740	1,250	170	17,060	6.17		
09.03.20.40	Pipe Line 1500.1,	(21	11640.00 LF	178,570	17,860	9,820	16,500	2,230	224,970	19.33		
09.03.20.41	Pipe Line 1500.101,	(12	2659.00 LF	13,030	1,300	720	1,200	160	16,420	6.17		
09.03.20.42	Pipe Line 1500.102,	(15	12728.00 LF	103,860	10,390	5,710	9,600	1,300	130,850	10.28		
09.03.20.43	Pipe Line 1500.1021,	(12	4312.00 LF	21,130	2,110	1,160	1,950	260	26,620	6.17		
09.03.20.44	Pipe Line 1500.11,(12"&18		13628.00 LF	122,600	12,260	6,740	11,330	1,530	154,460	11.33		
09.03.20.45	Pipe Line 1500.111,	(12	6910.00 LF	38,430	3,840	2,110	3,550	480	48,410	7.01		
09.03.20.46	Pipe Line 1500.12,(12"&24		3773.00 LF	43,340	4,330	2,380	4,000	540	54,600	14.47		
09.03.20.47	Pipe Line 1500.121,	(24	15113.00 LF	290,370	29,040	15,970	26,830	3,620	365,830	24.21		
09.03.20.48	Pipe Line 1500.1211,	(18	2617.00 LF	34,340	3,430	1,890	3,170	430	43,270	16.53		
09.03.20.49	Pipe Line 1500.13,(12"&27		8665.00 LF	154,900	15,490	8,520	14,310	1,930	195,150	22.52		
09.03.20.50	Pipe Line 1500.131,(15"&18		7239.00 LF	69,020	6,900	3,800	6,380	860	86,950	12.01		
09.03.20.51	Pipe Line 1500.14,	(12	753.00 LF	3,690	370	200	340	50	4,650	6.17		
09.03.20.52	Pipe Line 1500.15,	(12	1925.00 LF	13,940	1,390	770	1,290	170	17,560	9.12		
09.03.20.54	Pipe Line 1500.17,(12"&18		8407.00 LF	66,140	6,610	3,640	6,110	830	83,330	9.91		
09.03.20.55	Pipe Line 1500.171,	(15	9394.00 LF	78,230	7,820	4,300	7,230	980	98,560	10.49		
09.03.20.56	Pipe Line 1500.1711,	(12	1941.00 LF	9,510	950	520	880	120	11,980	6.17		
09.03.20.57	Pipe Line 1500.18,	(12	279.00 LF	1,370	140	80	130	20	1,720	6.17		
09.03.20.58	Pipe Line 1500.19,	(12	1726.00 LF	8,460	850	470	780	110	10,660	6.17		
09.03.20.59	Pipe Line 1500.20,	(12	75.00 LF	370	40	20	30	0	460	6.17		
09.03.20.60	Pipe Line 1500.21,	(12	1478.00 LF	7,240	720	400	670	90	9,120	6.17		

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.03.20.61	Pipe Line 1500.22,	(12	10159.00 LF	54,350	5,430	2,990	5,020	680	68,470	6.74
09.03.20.62	Pipe Line 1500.221,	(12	1226.00 LF	10,580	1,060	580	980	130	13,320	10.87
09.03.20.63	Pipe Line 1500.222,	(12	1440.00 LF	7,060	710	390	650	90	8,890	6.17
09.03.20.64	Pipe Line 1500.23, (15" x 18	(12	10213.00 LF	91,740	9,170	5,050	8,480	1,140	115,590	11.32
09.03.20.65	Pipe Line 1500.231,	(12	2652.00 LF	17,560	1,760	970	1,620	220	22,130	8.34
09.03.20.66	Pipe Line 1510.01,	(12	1473.00 LF	7,220	720	400	670	90	9,090	6.17
09.03.20.67	Pipe Line 1520.01,	(15	4065.00 LF	36,360	3,640	2,000	3,360	450	45,810	11.27
09.03.20.68	Pipe Line 1520.011,	(12	4141.00 LF	20,290	2,030	1,120	1,870	250	25,560	6.17
09.03.20.69	Pipe Line 1520.02,	(12	2594.00 LF	12,710	1,270	700	1,170	160	16,010	6.17
09.03.20.70	Pipe Line 1530.01,	(12	2807.00 LF	13,750	1,380	760	1,270	170	17,330	6.17
09.03.20.71	Pipe Line 1530.02,	(12	9032.00 LF	48,770	4,880	2,680	4,510	610	61,440	6.80
09.03.20.72	Pipe Line 1530.03,	(18	14649.00 LF	169,460	16,950	9,320	15,660	2,110	213,500	14.57
09.03.20.73	Pipe Line 1530.04,	(12	1035.00 LF	9,640	960	530	890	120	12,150	11.73
09.03.20.74	Pipe Line 1530.05,	(18	12111.00 LF	138,990	13,900	7,640	12,840	1,730	175,110	14.46
09.03.20.75	Pipe Line 1530.051,	(12	1664.00 LF	8,150	820	450	750	100	10,270	6.17
09.03.20.76	Pipe Line 1530.06,	(24	11616.00 LF	219,430	21,940	12,070	20,280	2,740	276,460	23.80
09.03.20.77	Pipe Line 1530.07, (12" x 15	(12	8041.00 LF	54,230	5,420	2,980	5,010	680	68,320	8.50
09.03.20.78	Pipe Line 1530.071,	(12	1464.00 LF	7,170	720	390	660	90	9,040	6.17
09.03.20.79	Pipe Line 1530.072,	(12	5378.00 LF	30,920	3,090	1,700	2,860	390	38,960	7.24
09.03.20.80	Pipe Line 1530.0721,	(12	735.00 LF	3,600	360	200	330	40	4,540	6.17
09.03.20.81	Pipe Line 1530.073,	(12	2708.00 LF	13,270	1,330	730	1,230	170	16,720	6.17
09.03.20.82	Pipe Line 1530.08, (12" x 18	(12	9446.00 LF	105,130	10,510	5,780	9,710	1,310	132,450	14.02
09.03.20.83	Pipe Line 1530.081,	(12	5879.00 LF	33,380	3,340	1,840	3,080	420	42,050	7.15
09.03.20.84	Pipe Line 1530.0811,	(12	5414.00 LF	26,530	2,650	1,460	2,450	330	33,420	6.17
09.03.20.86	Pipe Line 1530.09,	(12	2574.00 LF	12,610	1,260	690	1,170	160	15,890	6.17
09.03.20.87	Pipe Line 1530.10,	(18	1221.00 LF	13,330	1,330	730	1,230	170	16,790	13.75
09.03.20.88	Pipe Line 1531.01,	(12	3835.00 LF	18,790	1,880	1,030	1,740	230	23,670	6.17
09.03.20.90	Pipe Line C1530/1531,	(36	31805.00 LF	2,199,700	219,970	120,980	203,250	27,440	2,771,340	87.14
09.03.20.93	Pipe Line 1000.02,	(12	488.00 LF	2,430	240	130	220	30	3,070	6.29
TOTAL Pipe Lines			565495.00 LF	12,326,610	1,232,660	677,960	1,138,980	153,760	15,529,970	27.46
09.03.25 Pumps										
09.03.25.01	Pumps P1500.01	110HP		198,410	17,340	9,540	16,030	2,160	243,490	
09.03.25.07	Pumps P1500.014	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.11	Pumps P1500.02	70HP		184,250	15,930	8,760	14,720	1,990	225,650	
09.03.25.14	Pumps P1500.03	50		171,210	14,660	8,060	13,540	1,830	209,300	
09.03.25.19	Pumps P1500.04	5HP		95,950	8,090	4,450	7,470	1,010	116,970	
09.03.25.21	Pumps P1500.05	70		184,250	15,930	8,760	14,720	1,990	225,650	
09.03.25.34	Pumps P1500.06	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.36	Pumps P1500.07	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.37	Pumps P1500.08	5		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.39	Pumps P1500.09	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.40	Pumps P1500.10	25		122,700	9,870	5,430	9,120	1,230	148,360	
09.03.25.44	Pumps P1500.11	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.46	Pumps P1500.12	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.49	Pumps P1500.13	25		122,700	9,870	5,430	9,120	1,230	148,360	
09.03.25.50	Pumps P1500.131	10		107,660	8,480	4,660	7,840	1,060	129,700	
09.03.25.51	Pumps P1500.14	0.75		83,370	6,830	3,760	6,310	850	101,110	

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PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.03.25.52	Pumps	P1500.15	2		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.54	Pumps	P1500.17	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.57	Pumps	P1500.18	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.58	Pumps	P1500.19	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.59	Pumps	P1500.20	5		95,950	8,090	4,450	7,470	1,010	116,970	
09.03.25.60	Pumps	P1500.21	2		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.61	Pumps	P1500.22	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.64	Pumps	P1500.23	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.66	Pumps	P1510.01	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.67	Pumps	P1520.01	12		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.68	Pumps	P1520.02	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.69	Pumps	P1530.01	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.71	Pumps	P1530.02	2.5		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.72	Pumps	P1530.03	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.73	Pumps	P1530.04	1		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.74	Pumps	P1530.05	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.76	Pumps	P1530.06	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.77	Pumps	P1530.07	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.78	Pumps	P1530.30			122,700	9,870	5,430	9,120	1,230	148,360	
09.03.25.82	Pumps	P1530.08	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.03.25.86	Pumps	P1530.09	1		83,370	6,830	3,760	6,310	850	101,110	
09.03.25.87	Pumps	P1530.10	10		107,660	8,480	4,660	7,840	1,060	129,700	
09.03.25.88	Pumps	P1531.01	1		83,370	6,830	3,760	6,310	850	101,110	
TOTAL Pumps				39.00 EA	4,279,760	350,070	192,540	323,460	43,670	5,189,500	133064.04
09.03.40 Weirs											
09.03.40.01	Weir,	1500.01		1.00 EA	12,500	1,250	690	1,160	160	15,750	15751.81
09.03.40.02	Weir,	1500.02		1.00 EA	17,080	1,710	940	1,580	210	21,520	21516.29
09.03.40.03	Weir,	1500.03		1.00 EA	16,200	1,620	890	1,500	200	20,410	20405.68
09.03.40.04	Weir,	1500.04		1.00 EA	22,590	2,260	1,240	2,090	280	28,470	28465.64
09.03.40.05	Weir,	1530.01		1.00 EA	8,810	880	480	810	110	11,090	11093.40
TOTAL Weirs				5.00 EA	77,180	7,720	4,240	7,130	960	97,230	19446.56
09.03.50 Inverted Siphons											
09.03.50.01	Siphon,	1530-01,	3 each, 3	188.00 LF	61,230	6,120	3,370	5,660	760	77,150	410.36
TOTAL Inverted Siphons				1.00 EA	61,230	6,120	3,370	5,660	760	77,150	77148.19
09.03.60 Gatewell Turnout Structures											
09.03.60.10	T-1500,	Can/Can 54" Db1 Ga		1.00 EA	184,670	17,120	9,410	15,810	2,130	229,150	229151.44
TOTAL Gatewell Turnout Structure				1.00 EA	184,670	17,120	9,410	15,810	2,130	229,150	229151.44

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.03.75 Extg Canal Landowner Takeoff(									
09.03.75.05	Excavation for Pipe	925.00 CY	810	80	40	70	10	1,020	1.10
09.03.75.10	Place Pipe Bedding	25.00 CY	330	30	20	30	0	420	16.71
09.03.75.15	Install 24" Pipe	500.00 LF	43,010	4,300	2,370	3,970	540	54,190	108.38
09.03.75.20	24" Dresser Coupling @ Inta	25.00 EA	15,600	1,560	860	1,440	190	19,660	786.31
09.03.75.25	Intake Structure for 24" P	25.00 EA	31,300	3,130	1,720	2,890	390	39,430	1577.17
09.03.75.30	24" Intake Bar Screen	10375.00 LBS	24,230	2,420	1,330	2,240	300	30,530	2.94
09.03.75.35	24" Gate Valve	25.00 EA	196,190	19,620	10,790	18,130	2,450	247,180	9887.12
09.03.75.40	Valve box	25.00 EA	1,250	130	70	120	20	1,570	62.99
09.03.75.45	Excavate for pumpwell	2250.00 CY	2,180	220	120	200	30	2,740	1.22
09.03.75.50	Install 24" Pumpwell	25.00 EA	86,870	8,690	4,780	8,030	1,080	109,450	4377.99
09.03.75.55	24" Dresser Coupling @ Pum	25.00 EA	15,600	1,560	860	1,440	190	19,660	786.31
09.03.75.60	Backfill and Compaction	1800.00 CY	3,090	310	170	290	40	3,890	2.16
09.03.75.70	Flow Meter, Purchase Cost	25.00 EA	18,830	1,880	1,040	1,740	230	23,720	948.94
TOTAL Extg Canal Landowner Takeo		25.00 EA	439,300	43,930	24,160	40,590	5,480	553,460	22138.46
09.03.80 Pipeline Landowner Takeoffs (									
09.03.80.05	Excavation for Pipe	1248.00 CY	1,090	110	60	100	10	1,370	1.10
09.03.80.10	Place Pipe Bedding	38.48 CY	510	50	30	50	10	640	16.71
09.03.80.15	Install 12" DI Pipe	1040.00 LF	25,420	2,540	1,400	2,350	320	32,030	30.79
09.03.80.20	12" Dresser Coupling @ Inta	104.00 EA	35,740	3,570	1,970	3,300	450	45,020	432.92
09.03.80.25	Intake Structure for 12" P	104.00 EA	89,390	8,940	4,920	8,260	1,120	112,620	1082.91
09.03.80.30	12" Intake Bar Screen	27976.00 LBS	65,340	6,530	3,590	6,040	820	82,320	2.94
09.03.80.35	12" Gate Valve	104.00 EA	166,980	16,700	9,180	15,430	2,080	210,370	2022.83
09.03.80.40	Valve box	104.00 EA	5,200	520	290	480	60	6,550	62.99
09.03.80.45	Excavate for pumpwell	9360.00 CY	9,060	910	500	840	110	11,420	1.22
09.03.80.50	Install 24" Pumpwell	104.00 EA	361,390	36,140	19,880	33,390	4,510	455,310	4377.99
09.03.80.55	12" Dresser Coupling @ Pum	104.00 EA	35,740	3,570	1,970	3,300	450	45,020	432.92
09.03.80.60	Backfill and Compaction	10608.00 CY	18,210	1,820	1,000	1,680	230	22,940	2.16
09.03.80.70	Flow Meter, Purchase Cost	104.00 EA	78,330	7,830	4,310	7,240	980	98,690	948.94
TOTAL Pipeline Landowner Takeoff		104.00 EA	892,400	89,240	49,080	82,460	11,130	1,124,310	10810.70
09.03.85 24" CMP Drop Structures (3A)									
09.03.85.05	Excavate Trench	370.37 CY	440	40	20	40	10	550	1.49
09.03.85.10	Hand Trim Bottom of Trench	2000.00 SF	420	40	20	40	10	530	0.27
09.03.85.15	Install 24" CMP	10.00 EA	12,030	1,200	660	1,110	150	15,160	1515.75
09.03.85.20	Backfill & Compact 1/2 Pip	74.07 CY	160	20	10	10	0	200	2.70
09.03.85.25	Backfill & Compact to Grad	296.30 CY	140	10	10	10	0	180	0.60
TOTAL 24" CMP Drop Structures (3		10.00 EA	13,190	1,320	730	1,220	160	16,620	1662.14
TOTAL Canals Contract Area 3A		1.00 EA	18,840,460	1,804,790	992,630	1,667,620	225,130	23,530,630	23530626

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.04 Canals Contract Area 3B									
09.04.10 Canal Excavation									
09.04.10.05	Cast Canal Excavation ID-	381200.00 CY	209,080	20,910	11,500	19,320	2,610	263,420	0.69
09.04.10.06	Canal Excavation ID-1531	26550.00 CY	24,350	2,430	1,340	2,250	300	30,670	1.16
TOTAL Canal Excavation		641700.00 CY	233,430	23,340	12,840	21,570	2,910	294,090	0.46
09.04.70 New Canal Landowner Takeoffs(									
09.04.70.05	Excavation for Pipe	368.68 CY	320	30	20	30	0	400	1.10
09.04.70.10	Place Pipe Bedding	10.00 CY	130	10	10	10	0	170	16.71
09.04.70.15	Install 24" Pipe	200.00 LF	17,210	1,720	950	1,590	210	21,680	108.38
09.04.70.20	24" Dresser Coupling @ Inta	4.00 EA	2,500	250	140	230	30	3,150	786.31
09.04.70.25	Intake Structure for 24" P	4.00 EA	5,010	500	280	460	60	6,310	1577.17
09.04.70.30	24" Intake Bar Screen	1660.00 LBS	3,880	390	210	360	50	4,880	2.94
09.04.70.35	24" Gate Valve	4.00 EA	31,390	3,140	1,730	2,900	390	39,550	9887.12
09.04.70.40	Valve box	4.00 EA	200	20	10	20	0	250	62.99
09.04.70.45	Excavate for pumpwell	360.00 CY	350	30	20	30	0	440	1.22
09.04.70.50	Install 24" Pumpwell	4.00 EA	13,900	1,390	760	1,280	170	17,510	4377.99
09.04.70.55	24" Dresser Coupling @ Pum	4.00 EA	2,500	250	140	230	30	3,150	786.31
09.04.70.60	Backfill and Compaction	720.00 CY	1,240	120	70	110	20	1,560	2.16
09.04.70.70	Flow Meter, Purchase Cost	4.00 EA	3,010	300	170	280	40	3,800	948.94
TOTAL New Canal Landowner Takeof		4.00 EA	81,620	8,160	4,490	7,540	1,020	102,840	25709.18
09.04.76 Extg Canal Landowner Takeoff(									
09.04.76.05	Excavation for Pipe	814.00 CY	710	70	40	70	10	890	1.10
09.04.76.10	Place Pipe Bedding	22.00 CY	290	30	20	30	0	370	16.71
09.04.76.15	Install 24" Pipe	440.00 LF	37,850	3,790	2,080	3,500	470	47,690	108.38
09.04.76.20	24" Dresser Coupling @ Inta	22.00 EA	13,730	1,370	760	1,270	170	17,300	786.31
09.04.76.25	Intake Structure for 24" P	22.00 EA	27,540	2,750	1,510	2,540	340	34,700	1577.17
09.04.76.30	24" Intake Bar Screen	9130.00 LBS	21,320	2,130	1,170	1,970	270	26,860	2.94
09.04.76.35	24" Gate Valve	22.00 EA	172,650	17,260	9,500	15,950	2,150	217,520	9887.12
09.04.76.40	Valve box	22.00 EA	1,100	110	60	100	10	1,390	62.99
09.04.76.45	Excavate for pumpwell	1980.00 CY	1,920	190	110	180	20	2,420	1.22
09.04.76.50	Install 24" Pumpwell	22.00 EA	76,450	7,640	4,200	7,060	950	96,320	4377.99
09.04.76.55	24" Dresser Coupling @ Pum	22.00 EA	13,730	1,370	760	1,270	170	17,300	786.31
09.04.76.60	Backfill and Compaction	1584.00 CY	2,720	270	150	250	30	3,430	2.16
09.04.76.70	Flow Meter, Purchase Cost	22.00 EA	16,570	1,660	910	1,530	210	20,880	948.94
TOTAL Extg Canal Landowner Takeo		22.00 EA	386,580	38,660	21,260	35,720	4,820	487,050	22138.46
09.04.81 Pipeline Landowner Takeoffs (									
09.04.81.05	Excavation for Pipe	984.00 CY	860	90	50	80	10	1,080	1.10

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.04.81.10	Place Pipe Bedding	30.34 CY	400	40	20	40	10	510	16.71
09.04.81.15	Install 12" DI Pipe	820.00 LF	20,040	2,000	1,100	1,850	250	25,250	30.79
09.04.81.20	12" Dresser Coupling @ Inta	82.00 EA	28,180	2,820	1,550	2,600	350	35,500	432.92
09.04.81.25	Intake Structure for 12" P	82.00 EA	70,480	7,050	3,880	6,510	880	88,800	1082.91
09.04.81.30	12" Intake Bar Screen	22058.00 LBS	51,520	5,150	2,830	4,760	640	64,900	2.94
09.04.81.35	12" Gate Valve	82.00 EA	131,660	13,170	7,240	12,170	1,640	165,870	2022.83
09.04.81.40	Valve box	82.00 EA	4,100	410	230	380	50	5,170	62.99
09.04.81.45	Excavate for pumpwell	7380.00 CY	7,150	710	390	660	90	9,000	1.22
09.04.81.50	Install 24" Pumpwell	82.00 EA	284,950	28,490	15,670	26,330	3,550	359,000	4377.99
09.04.81.55	12" Dresser Coupling @ Pum	82.00 EA	28,180	2,820	1,550	2,600	350	35,500	432.92
09.04.81.60	Backfill and Compaction	8364.00 CY	14,360	1,440	790	1,330	180	18,090	2.16
09.04.81.70	Flow Meter, Purchase Cost	82.00 EA	61,760	6,180	3,400	5,710	770	77,810	948.94
TOTAL Pipeline Landowner Takeoff		82.00 EA	703,620	70,360	38,700	65,010	8,780	886,480	10810.70
09.04.86 24" CMP Drop Structures (3B)									
09.04.86.05	Excavate Trench	333.33 CY	400	40	20	40	0	500	1.49
09.04.86.10	Hand Trim Bottom of Trench	1800.00 SF	380	40	20	40	0	480	0.27
09.04.86.15	Install 24" CMP	9.00 EA	10,830	1,080	600	1,000	140	13,640	1515.75
09.04.86.20	Backfill & Compact 1/2 Pip	66.67 CY	140	10	10	10	0	180	2.70
09.04.86.25	Backfill & Compact to Grad	266.67 CY	130	10	10	10	0	160	0.60
TOTAL 24" CMP Drop Structures (3		9.00 EA	11,870	1,190	650	1,100	150	14,960	1662.14
TOTAL Canals Contract Area 3B		1.00 EA	1,417,130	141,710	77,940	130,940	17,680	1,785,410	1785409
09.05 Canals Contract Area 4									
09.05.01	Mob, Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W			50,000	5,000	2,750	4,620	620	62,990	
09.05.10 Canal Excavation									
09.05.10.08	Canal Excavation ID-1400	334600.00 CY	243,360	24,340	13,380	22,490	3,040	306,600	0.92
09.05.10.10	Canal Excavation ID-1410	307100.00 CY	179,770	17,980	9,890	16,610	2,240	226,490	0.74
TOTAL Canal Excavation		1643100 CY	423,130	42,310	23,270	39,100	5,280	533,090	0.32
09.05.20 Pipe Lines									
09.05.20.01	Pipe Line 1400.01, (21"&24	7632.00 LF	134,860	13,490	7,420	12,460	1,680	169,910	22.26
09.05.20.02	Pipe Line 1400.011, (12	3208.00 LF	15,720	1,570	860	1,450	200	19,800	6.17
09.05.20.03	Pipe Line 1400.02,(12",18"	15158.00 LF	271,150	27,110	14,910	25,050	3,380	341,610	22.54
09.05.20.04	Pipe Line 1400.021, (12	2717.00 LF	13,310	1,330	730	1,230	170	16,770	6.17
09.05.20.05	Pipe Line 1400.022,(12"&21	11440.00 LF	82,480	8,250	4,540	7,620	1,030	103,920	9.08

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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SUMMARY PAGE 109

QUANTITY UOM				DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.05.20.06	Pipe Line 1400.0221,	(12	2634.00 LF	12,910	1,290	710	1,190	160	16,260	6.17
09.05.20.07	Pipe Line 1400.0222,	(18	2717.00 LF	29,660	2,970	1,630	2,740	370	37,360	13.75
09.05.20.08	Pipe Line 1400.023,	(12	1454.00 LF	7,120	710	390	660	90	8,980	6.17
09.05.20.09	Pipe Line 1400.03,	(12	5750.00 LF	32,740	3,270	1,800	3,030	410	41,250	7.17
09.05.20.10	Pipe Line 1400.031,	(12	1427.00 LF	6,990	700	380	650	90	8,810	6.17
09.05.20.11	Pipe Line 1400.04, (18"X36		7651.00 LF	472,560	47,260	25,990	43,660	5,890	595,370	77.82
09.05.20.12	Pipe Line 1400.041,	(12	352.00 LF	1,720	170	90	160	20	2,170	6.17
09.05.20.13	Pipe Line 1400.042,	(12	856.00 LF	4,190	420	230	390	50	5,280	6.17
09.05.20.14	Pipe Line 1400.043,	(21	2154.00 LF	38,150	3,810	2,100	3,530	480	48,060	22.31
09.05.20.15	Pipe Line 1400.044,	(18	4299.00 LF	46,920	4,690	2,580	4,340	590	59,120	13.75
09.05.20.16	Pipe Line 1410.01,	(15	2691.00 LF	20,690	2,070	1,140	1,910	260	26,060	9.68
09.05.20.17	Pipe Line 1410.02,	(21	8057.00 LF	124,810	12,480	6,860	11,530	1,560	157,250	19.52
09.05.20.18	Pipe Line 1410.03,	(12	5518.00 LF	31,610	3,160	1,740	2,920	390	39,820	7.22
09.05.20.19	Pipe Line 1000.01,	(12	1817.00 LF	9,060	910	500	840	110	11,420	6.29
09.05.20.20	Pipe Line 1000.03,	(12	3283.00 LF	16,380	1,640	900	1,510	200	20,630	6.29
09.05.20.21	Pipe Line 1000.031,	(12	4047.00 LF	20,190	2,020	1,110	1,870	250	25,440	6.29
09.05.20.22	Pipe Line 1000.04,	(12	4320.00 LF	21,550	2,160	1,190	1,990	270	27,150	6.29
09.05.20.24	Pipe Line 2000.02,	(12	2918.00 LF	14,560	1,460	800	1,350	180	18,340	6.29
09.05.20.26	Pipe Line 2000.03,	(24	12415.00 LF	229,060	22,910	12,600	21,160	2,860	288,580	23.24
TOTAL Pipe Lines				1,658,400	165,840	91,210	153,240	20,690	2,089,380	24.38

09.05.25 Pumps

09.05.25.01	Pumps P1400.01	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.05.25.03	Pumps P1400.02	55		171,630	14,690	8,080	13,570	1,830	209,800	
09.05.25.09	Pumps P1400.03	5		95,950	8,090	4,450	7,470	1,010	116,970	
09.05.25.11	Pumps P1400.04	30		122,700	9,870	5,430	9,120	1,230	148,360	
09.05.25.16	Pumps P1410.01	5		95,950	8,090	4,450	7,470	1,010	116,970	
09.05.25.17	Pumps P1410.02	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.05.25.18	Pumps P1410.03	0.75		83,370	6,830	3,760	6,310	850	101,110	
TOTAL Pumps				7.00 EA	802,800	66,180	36,400	61,150	8,260	974,790 139255.50

09.05.50 Inverted Siphons

09.05.50.01	Siphon, 1400-01, 2 each, 7		188.00 LF	136,260	13,630	7,490	12,590	1,700	171,680	913.17
09.05.50.02	Siphon, 1400-02, 2 each, 7		188.00 LF	136,260	13,630	7,490	12,590	1,700	171,680	913.17
09.05.50.03	Siphon, 1400-03, 2 each, 4		188.00 LF	65,700	6,570	3,610	6,070	820	82,780	440.30
09.05.50.04	Siphon, 1400-04, 3 each, 5		330.00 LF	181,060	18,110	9,960	16,730	2,260	228,110	691.25
09.05.50.05	Siphon, 1400-05, 3 each, 7		222.00 LF	228,290	22,830	12,560	21,090	2,850	287,610	1295.54
09.05.50.06	Siphon, 1410-01, 1 each, 7		202.00 LF	83,110	8,310	4,570	7,680	1,040	104,700	518.34
09.05.50.07	Siphon, 1410-02, 2 each, 7		174.00 LF	146,700	14,670	8,070	13,550	1,830	184,820	1062.19
TOTAL Inverted Siphons				7.00 EA	977,380	97,740	53,760	90,310	12,190	1,231,370 175910.55

09.05.60 Gatewell Turnout Structures

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.05.60.10	T-1400, Can/Can 60" Db1 Ga	1.00	EA	201,760	18,820	10,350	17,390	2,350	250,670	250673.29
09.05.60.20	T-1410, Can/Can 48" Db1 Ga	1.00	EA	156,810	14,330	7,880	13,240	1,790	194,050	194049.10
TOTAL Gatewell Turnout Structure		2.00	EA	358,570	33,150	18,230	30,630	4,140	444,720	222361.19
09.05.70 New Canal Landowner Takeoffs										
09.05.70.05	Excavation for Pipe	1013.87	CY	880	90	50	80	10	1,110	1.10
09.05.70.10	Place Pipe Bedding	27.50	CY	360	40	20	30	0	460	16.71
09.05.70.15	Install 24" Pipe	550.00	LF	47,310	4,730	2,600	4,370	590	59,610	108.38
09.05.70.20	24" Dresser Coupling @ Inta	11.00	EA	6,870	690	380	630	90	8,650	786.31
09.05.70.25	Intake Structure for 24" P	11.00	EA	13,770	1,380	760	1,270	170	17,350	1577.17
09.05.70.30	24" Intake Bar Screen	4565.00	LBS	10,660	1,070	590	990	130	13,430	2.94
09.05.70.35	24" Gate Valve	11.00	EA	86,320	8,630	4,750	7,980	1,080	108,760	9887.12
09.05.70.40	Valve box	11.00	EA	550	60	30	50	10	690	62.99
09.05.70.45	Excavate for pumpwell	990.00	CY	960	100	50	90	10	1,210	1.22
09.05.70.50	Install 24" Pumpwell	11.00	EA	38,220	3,820	2,100	3,530	480	48,160	4377.99
09.05.70.55	24" Dresser Coupling @ Pum	11.00	EA	6,870	690	380	630	90	8,650	786.31
09.05.70.60	Backfill and Compaction	1980.00	CY	3,400	340	190	310	40	4,280	2.16
09.05.70.70	Flow Meter, Purchase Cost	11.00	EA	8,290	830	460	770	100	10,440	948.94
TOTAL New Canal Landowner Takeof		11.00	EA	224,470	22,450	12,350	20,740	2,800	282,800	25709.18
09.05.75 Existing Canal Landowner Take										
09.05.75.05	Excavation for Pipe	555.00	CY	480	50	30	40	10	610	1.10
09.05.75.10	Place Pipe Bedding	15.00	CY	200	20	10	20	0	250	16.71
09.05.75.15	Install 24" Pipe	300.00	LF	25,810	2,580	1,420	2,380	320	32,520	108.38
09.05.75.20	24" Dresser Coupling @ Inta	15.00	EA	9,360	940	510	870	120	11,790	786.31
09.05.75.25	Intake Structure for 24" P	15.00	EA	18,780	1,880	1,030	1,740	230	23,660	1577.17
09.05.75.30	24" Intake Bar Screen	6225.00	LBS	14,540	1,450	800	1,340	180	18,320	2.94
09.05.75.35	24" Gate Valve	15.00	EA	117,720	11,770	6,470	10,880	1,470	148,310	9887.12
09.05.75.40	Valve box	15.00	EA	750	80	40	70	10	940	62.99
09.05.75.45	Excavate for pumpwell	1350.00	CY	1,310	130	70	120	20	1,650	1.22
09.05.75.50	Install 24" Pumpwell	15.00	EA	52,120	5,210	2,870	4,820	650	65,670	4377.99
09.05.75.55	24" Dresser Coupling @ Pum	15.00	EA	9,360	940	510	870	120	11,790	786.31
09.05.75.60	Backfill and Compaction	1080.00	CY	1,850	190	100	170	20	2,340	2.16
09.05.75.70	Flow Meter, Purchase Cost	15.00	EA	11,300	1,130	620	1,040	140	14,230	948.94
TOTAL Existing Canal Landowner T		15.00	EA	263,580	26,360	14,500	24,350	3,290	332,080	22138.46
09.05.80 Pipeline Landowner Takeoffs										
09.05.80.05	Excavation for Pipe	468.00	CY	410	40	20	40	10	510	1.10
09.05.80.10	Place Pipe Bedding	14.43	CY	190	20	10	20	0	240	16.71
09.05.80.15	Install 12" DI Pipe	390.00	LF	9,530	950	520	880	120	12,010	30.79
09.05.80.20	12" Dresser Coupling @ Inta	39.00	EA	13,400	1,340	740	1,240	170	16,880	432.92
09.05.80.25	Intake Structure for 12" P	39.00	EA	33,520	3,350	1,840	3,100	420	42,230	1082.91

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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SUMMARY PAGE 111

		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.05.80.30	12" Intake Bar Screen	10491.00 LBS	24,500	2,450	1,350	2,260	310	30,870	2.94
09.05.80.35	12" Gate Valve	39.00 EA	62,620	6,260	3,440	5,790	780	78,890	2022.83
09.05.80.40	Valve box	39.00 EA	1,950	200	110	180	20	2,460	62.99
09.05.80.45	Excavate for pumpwell	3510.00 CY	3,400	340	190	310	40	4,280	1.22
09.05.80.50	Install 24" Pumpwell	39.00 EA	135,520	13,550	7,450	12,520	1,690	170,740	4377.99
09.05.80.55	12" Dresser Coupling @ Pum	39.00 EA	13,400	1,340	740	1,240	170	16,880	432.92
09.05.80.60	Backfill and Compaction	3978.00 CY	6,830	680	380	630	90	8,600	2.16
09.05.80.70	Flow Meter, Purchase Cost	39.00 EA	29,370	2,940	1,620	2,710	370	37,010	948.94
TOTAL Pipeline Landowner Takeoff		39.00 EA	334,650	33,470	18,410	30,920	4,170	421,620	10810.70
09.05.85 24" CMP Drop Structures									
09.05.85.05	Excavate Trench	111.11 CY	130	10	10	10	0	170	1.49
09.05.85.10	Hand Trim Bottom of Trench	600.00 SF	130	10	10	10	0	160	0.27
09.05.85.15	Install 24" CMP	3.00 EA	3,610	360	200	330	50	4,550	1515.75
09.05.85.20	Backfill & Compact 1/2 Pip	22.22 CY	50	0	0	0	0	60	2.70
09.05.85.25	Backfill & Compact to Grad	88.89 CY	40	0	0	0	0	50	0.60
TOTAL 24" CMP Drop Structures		3.00 EA	3,960	400	220	370	50	4,990	1662.14
TOTAL Canals Contract Area 4		1.00 EA	5,096,940	492,890	271,090	455,430	61,480	6,377,830	6377830
09.06 Canals Contract Area 5									
09.06.01	Mob, Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W			50,000	5,000	2,750	4,620	620	62,990	
09.06.10 Canal Excavation									
09.06.10.12	Canal Excavation ID-2100	584600.00 CY	371,580	37,160	20,440	34,330	4,640	468,140	0.80
09.06.10.14	Canal Excavation ID-2140	659500.00 CY	544,260	54,430	29,930	50,290	6,790	685,700	1.04
09.06.10.16	Canal Excavation ID-2160	277200.00 CY	914,450	91,440	50,290	84,490	11,410	1,152,090	4.16
TOTAL Canal Excavation		443600.00 CY	1,830,290	183,030	100,670	169,120	22,830	2,305,930	5.20
09.06.15 Existing Channel Improvements									
09.06.15.10	Channel Exc Caney Creek ID 145067.00 CY		291,720	29,170	16,040	26,960	3,640	367,530	2.53
TOTAL Existing Channel Improve			291,720	29,170	16,040	26,960	3,640	367,530	
09.06.20 Pipe Lines									
09.06.20.02	Pipe Line 2100.02, (12 11032.00 LF		54,060	5,410	2,970	4,990	670	68,100	6.17

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.20.07	Pipe Line 2100.06, (12"818	12284.00	LF	73,750	7,370	4,060	6,810	920	92,920	7.56
09.06.20.08	Pipe Line 2100.061,(12"818	11755.00	LF	123,830	12,380	6,810	11,440	1,540	156,010	13.27
09.06.20.09	Pipe Line 2100.0611, (15	16378.00	LF	131,920	13,190	7,260	12,190	1,650	166,200	10.15
09.06.20.10	Pipe Line 2100.07, (15	2788.00	LF	21,430	2,140	1,180	1,980	270	27,000	9.68
09.06.20.11	Pipe Line 2100.08, (12	2749.00	LF	13,470	1,350	740	1,240	170	16,970	6.17
09.06.20.13	Pipe Line 2100.09, (15	9261.00	LF	76,310	7,630	4,200	7,050	950	96,140	10.38
09.06.20.15	Pipe Line 2100.1, (12	3561.00	LF	21,960	2,200	1,210	2,030	270	27,660	7.77
09.06.20.16	Pipe Line 2100.101, (12	2723.00	LF	13,340	1,330	730	1,230	170	16,810	6.17
09.06.20.17	Pipe Line 2100.11, (15"818	11461.00	LF	118,040	11,800	6,490	10,910	1,470	148,720	12.98
09.06.20.18	Pipe Line 2100.111, (12	470.00	LF	2,300	230	130	210	30	2,900	6.17
09.06.20.19	Pipe Line 2100.112, (12	1405.00	LF	6,880	690	380	640	90	8,670	6.17
09.06.20.20	Pipe Line 2100.113,(12"815	6459.00	LF	49,140	4,910	2,700	4,540	610	61,910	9.59
09.06.20.22	Pipe Line 2100.1132, (12	3959.00	LF	28,420	2,840	1,560	2,630	350	35,800	9.04
09.06.20.23	Pipe Line 2120.01, (12	4028.00	LF	24,250	2,420	1,330	2,240	300	30,550	7.58
09.06.20.24	Pipe Line 2120.02, (24"830	24695.00	LF	887,940	88,790	48,840	82,050	11,080	1,118,690	45.30
09.06.20.25	Pipe Line 2120.021, (12	2806.00	LF	13,750	1,370	760	1,270	170	17,320	6.17
09.06.20.26	Pipe Line 2120.022, (12	13984.00	LF	73,030	7,300	4,020	6,750	910	92,010	6.58
09.06.20.27	Pipe Line 2120.0221, (12	1364.00	LF	11,190	1,120	620	1,030	140	14,100	10.34
09.06.20.28	Pipe Line 2120.023, (12	2392.00	LF	16,230	1,620	890	1,500	200	20,450	8.55
09.06.20.29	Pipe Line 2120.03, (15"82	5289.00	LF	89,200	8,920	4,910	8,240	1,110	112,380	21.25
09.06.20.30	Pipe Line 2120.031, (21	2744.00	LF	40,280	4,030	2,220	3,720	500	50,750	18.50
09.06.20.31	Pipe Line 2120.0311(12"815	4098.00	LF	27,450	2,750	1,510	2,540	340	34,590	8.44
09.06.20.32	Pipe Line 2120.04(24"27"83	21157.00	LF	825,020	82,500	45,380	76,230	10,290	1,039,420	49.13
09.06.20.33	Pipe Line 2120.041, (12	11695.00	LF	66,320	6,630	3,650	6,130	830	83,560	7.14
09.06.20.34	Pipe Line 2120.0411, (12	2726.00	LF	13,360	1,340	730	1,230	170	16,830	6.17
09.06.20.35	Pipe Line 2120.0412, (12	2377.00	LF	16,160	1,620	890	1,490	200	20,350	8.56
09.06.20.36	Pipe Line 2120.0413, (12	2695.00	LF	13,210	1,320	730	1,220	160	16,640	6.17
09.06.20.37	Pipe Line 2120.042, (12	3952.00	LF	23,930	2,390	1,320	2,210	300	30,150	7.63
09.06.20.38	Pipe Line 2120.05(18"24"82	18834.00	LF	345,240	34,520	18,990	31,900	4,310	434,960	23.09
09.06.20.39	Pipe Line 2120.051, (12	2793.00	LF	18,190	1,820	1,000	1,680	230	22,920	8.21
09.06.20.40	Pipe Line 2120.052, (12	680.00	LF	3,330	330	180	310	40	4,200	6.17
09.06.20.41	Pipe Line 2120.06, (12	780.00	LF	3,820	380	210	350	50	4,820	6.17
09.06.20.42	Pipe Line 2120.07, (18"824	7429.00	LF	128,990	12,900	7,090	11,920	1,610	162,510	21.87
09.06.20.43	Pipe Line 2120.071, (21	9434.00	LF	145,030	14,500	7,980	13,400	1,810	182,720	19.37
09.06.20.44	Pipe Line 2140.01, (12	11111.00	LF	58,950	5,900	3,240	5,450	740	74,270	6.68
09.06.20.45	Pipe Line 2140.011, (12	1345.00	LF	11,100	1,110	610	1,030	140	13,980	10.40
09.06.20.46	Pipe Line 2140.012, (12	9254.00	LF	58,870	5,890	3,240	5,440	730	74,170	8.01
09.06.20.47	Pipe Line 2140.0121, (12	2328.00	LF	11,410	1,140	630	1,050	140	14,370	6.17
09.06.20.48	Pipe Line 2140.013, (12	1316.00	LF	10,960	1,100	600	1,010	140	13,800	10.49
09.06.20.49	Pipe Line 2140.02, (12	9339.00	LF	54,780	5,480	3,010	5,060	680	69,010	7.39
09.06.20.50	Pipe Line 2140.021, (12	954.00	LF	9,180	920	510	850	110	11,570	12.13
09.06.20.51	Pipe Line 2140.022, (12	1244.00	LF	6,100	610	340	560	80	7,680	6.17
09.06.20.52	Pipe Line 2140.03, (18"836	18936.00	LF	1,244,880	124,490	68,470	115,030	15,530	1,568,390	82.83
09.06.20.53	Pipe Line 2140.031, (12	2744.00	LF	17,950	1,800	990	1,660	220	22,620	8.24
09.06.20.54	Pipe Line 2140.032, (18	6974.00	LF	81,900	8,190	4,500	7,570	1,020	103,180	14.80
09.06.20.55	Pipe Line 2140.033, (18	8626.00	LF	99,930	9,990	5,500	9,230	1,250	125,900	14.60
09.06.20.56	Pipe Line 2140.0331, (12	3484.00	LF	21,580	2,160	1,190	1,990	270	27,190	7.80
09.06.20.57	Pipe Line 2140.034, (12	2614.00	LF	12,810	1,280	700	1,180	160	16,140	6.17
09.06.20.58	Pipe Line 2140.035, (36	5908.00	LF	422,140	42,210	23,220	39,010	5,270	531,850	90.02
09.06.20.59	PipeLine 2140.0351(18"21"3	8139.00	LF	397,950	39,800	21,890	36,770	4,960	501,370	61.60
09.06.20.60	Pipe Line 2140.03511, (24	5582.00	LF	110,310	11,030	6,070	10,190	1,380	138,970	24.90

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.20.61	Pipe Line 2140.035111, (12	1293.00 LF	10,900	1,090	600	1,010	140	13,740	10.62
09.06.20.62	Pipe Line 2140.04, (12"&21	17571.00 LF	227,060	22,710	12,490	20,980	2,830	286,070	16.28
09.06.20.63	Pipe Line 2140.041, (12	1275.00 LF	6,250	620	340	580	80	7,870	6.17
09.06.20.64	Pipe Line 2140.042,(12"&15	9698.00 LF	67,010	6,700	3,690	6,190	840	84,420	8.71
09.06.20.65	Pipe Line 2140.0421, (12	5237.00 LF	30,170	3,020	1,660	2,790	380	38,010	7.26
09.06.20.66	Pipe Line 2140.043, (12	2781.00 LF	13,630	1,360	750	1,260	170	17,170	6.17
09.06.20.67	Pipe Line 2140.05, (12"&15	10579.00 LF	66,710	6,670	3,670	6,160	830	84,050	7.95
09.06.20.68	Pipe Line 2140.051, (12	3984.00 LF	19,520	1,950	1,070	1,800	240	24,590	6.17
09.06.20.69	Pipe Line 2140.06, (27	6492.00 LF	153,660	15,370	8,450	14,200	1,920	193,600	29.82
09.06.20.70	Pipe Line 2140.07, (15	4697.00 LF	36,110	3,610	1,990	3,340	450	45,490	9.68
09.06.20.71	Pipe Line 2140.08, (12	15940.00 LF	82,610	8,260	4,540	7,630	1,030	104,080	6.53
09.06.20.72	Pipe Line 2140.081, (12	2701.00 LF	13,230	1,320	730	1,220	170	16,670	6.17
09.06.20.74	Pipe Line 2140.09, (27	15800.00 LF	402,610	40,260	22,140	37,200	5,020	507,240	32.10
09.06.20.75	Pipe Line 2140.091, (12	15128.00 LF	74,130	7,410	4,080	6,850	920	93,390	6.17
09.06.20.76	Pipe Line 2140.092, (15	6651.00 LF	56,240	5,620	3,090	5,200	700	70,860	10.65
09.06.20.77	Pipe Line 2140.E, (21"&24	10260.00 LF	158,540	15,850	8,720	14,650	1,980	199,750	19.47
09.06.20.78	Pipe Line 2140.093, (12	6684.00 LF	37,260	3,730	2,050	3,440	460	46,940	7.02
09.06.20.79	Pipe Line 2300.00 (27	15000.00 LF	416,280	41,630	22,900	38,460	5,190	524,460	34.96
09.06.20.80	Pipe Line 2140.094(12"15"&	10810.00 LF	76,090	7,610	4,180	7,030	950	95,860	8.87
09.06.20.81	Pipe Line 2140.0941 (15	6146.00 LF	52,360	5,240	2,880	4,840	650	65,970	10.73
09.06.20.82	Pipe Line 2140.09411, (12	986.00 LF	4,830	480	270	450	60	6,090	6.17
09.06.20.83	Pipe Line 2140.10, (21"&24	12505.00 LF	193,910	19,390	10,670	17,920	2,420	244,300	19.54
09.06.20.84	Pipe Line 2140.101, (12	1246.00 LF	6,110	610	340	560	80	7,690	6.17
09.06.20.85	Pipe Line 2140.102, (12	2658.00 LF	13,020	1,300	720	1,200	160	16,410	6.17
09.06.20.86	Pipe Line 2140.11, (12	6583.00 LF	32,260	3,230	1,770	2,980	400	40,640	6.17
09.06.20.87	Pipe Line 2140.12, (12	2717.00 LF	17,880	1,790	980	1,650	220	22,530	8.29
09.06.20.88	Pipe Line 2140.13, (18	5400.00 LF	65,740	6,570	3,620	6,070	820	82,820	15.34
09.06.20.89	Pipe Line 2160.01, (12	6766.00 LF	42,230	4,220	2,320	3,900	530	53,200	7.86
09.06.20.90	Pipe Line 2160.011, (12	6500.00 LF	36,420	3,640	2,000	3,370	450	45,880	7.06
09.06.20.91	Pipe Line 2160.0111, (12	500.00 LF	2,450	250	130	230	30	3,090	6.17
09.06.20.92	Pipe Line 2160.012, (12	2256.00 LF	20,330	2,030	1,120	1,880	250	25,610	11.35
09.06.20.93	Pipe Line 2160.02, (12	2101.00 LF	10,560	1,060	580	980	130	13,300	6.33
09.06.20.94	Pipe Line 2160.03, (18	13335.00 LF	146,080	14,610	8,030	13,500	1,820	184,040	13.80
09.06.20.95	Pipe Line 2160.031, (12	6832.00 LF	42,490	4,250	2,340	3,930	530	53,540	7.84
09.06.20.96	Pipe Line 2160.032, (12	5258.00 LF	25,760	2,580	1,420	2,380	320	32,460	6.17
09.06.20.97	Pipe Line 2160.033, (12	2770.00 LF	18,080	1,810	990	1,670	230	22,780	8.22
09.06.20.98	Pipe Line 2160.0331, (12	12645.00 LF	61,960	6,200	3,410	5,730	770	78,060	6.17
09.06.20.99	Pipe Line 2300.01, (27	27540.00 LF	713,100	71,310	39,220	65,890	8,900	898,410	32.62
09.06.20.9A	Pipe Line 2000.01, (12	5518.00 LF	27,530	2,750	1,510	2,540	340	34,680	6.29
09.06.20.9B	Pipe Line 2000.011, (12	6773.00 LF	33,790	3,380	1,860	3,120	420	42,570	6.29
TOTAL Pipe Lines			9,666,460	966,650	531,660	893,180	120,580	12,178,530	20.23

09.06.25 Pumps

09.06.25.02	Pumps	P2100.02	5	95,950	8,090	4,450	7,470	1,010	116,970
09.06.25.07	Pumps	P2100.06	35	160,940	13,630	7,500	12,590	1,700	196,360
09.06.25.10	Pumps	P2100.07	7.5	95,950	8,090	4,450	7,470	1,010	116,970
09.06.25.11	Pumps	P2100.08	2	83,370	6,830	3,760	6,310	850	101,110
09.06.25.13	Pumps	P2100.09	7.5	95,950	8,090	4,450	7,470	1,010	116,970

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.25.15	Pumps	P2100.10	5		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.17	Pumps	P2100.11	30		122,700	9,870	5,430	9,120	1,230	148,360	
09.06.25.23	Pumps	P2120.01	2.5		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.24	Pumps	P2120.02	50		171,630	14,690	8,080	13,570	1,830	209,800	
09.06.25.29	Pumps	P2120.03	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.06.25.32	Pumps	P2120.04	60		173,350	14,860	8,170	13,730	1,850	211,970	
09.06.25.38	Pumps	P2120.05	55		171,630	14,690	8,080	13,570	1,830	209,800	
09.06.25.41	Pumps	P2120.06	1		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.42	Pumps	P2120.07	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.06.25.43	Pumps	P2140E	10		109,450	8,660	4,760	8,000	1,080	131,950	
09.06.25.44	Pumps	P2140.01	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.06.25.49	Pumps	P2140.02	5		95,950	8,090	4,450	7,470	1,010	116,970	
09.06.25.52	Pumps	P2140.03	60		171,970	14,720	8,100	13,600	1,840	210,220	
09.06.25.62	Pumps	P2140.04	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.06.25.67	Pumps	P2140.05	5		95,950	8,090	4,450	7,470	1,010	116,970	
09.06.25.69	Pumps	P2140.06	5		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.70	Pumps	P2140.07	2.5		86,840	7,180	3,950	6,630	900	105,480	
09.06.25.71	Pumps	P2140.08	7		95,950	8,090	4,450	7,470	1,010	116,970	
09.06.25.74	Pumps	P2140.09	30		122,700	9,870	5,430	9,120	1,230	148,360	
09.06.25.83	Pumps	P2140.10	10		107,660	8,480	4,660	7,840	1,060	129,700	
09.06.25.86	Pumps	P2140.11	2.5		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.87	Pumps	P2140.12	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.88	Pumps	P2140.13	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.89	Pumps	P2160.01	10		107,660	8,480	4,660	7,840	1,060	129,700	
09.06.25.93	Pumps	P2160.02	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.06.25.94	Pumps	P2160.03	35		160,940	13,630	7,500	12,590	1,700	196,360	
TOTAL Pumps				31.00 EA	3,459,890	285,970	157,280	264,240	35,670	4,203,050	135582.37
09.06.30 Check Structures											
09.06.30.01	Check Structure	C-2110		1.00 EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
09.06.30.03	Check Structure	C-2000.1		1.00 EA	927,020	92,700	50,990	85,660	11,560	1,167,930	1167931
TOTAL Check Structures				2.00 EA	1,735,210	173,520	95,440	160,330	21,640	2,186,140	1093072
09.06.40 Weirs											
09.06.40.01	Weir,	2100.02		1.00 EA	17,260	1,730	950	1,590	220	21,740	21740.08
09.06.40.02	Weir,	2100.03		1.00 EA	18,840	1,880	1,040	1,740	230	23,730	23732.67
09.06.40.03	Weir,	2120.01		1.00 EA	17,380	1,740	960	1,610	220	21,900	21895.50
09.06.40.04	Weir,	2120.02		1.00 EA	12,290	1,230	680	1,140	150	15,480	15483.45
09.06.40.05	Weir,	2120.03		1.00 EA	19,740	1,970	1,090	1,820	250	24,870	24867.37
09.06.40.06	Weir,	2120.04		1.00 EA	17,410	1,740	960	1,610	220	21,940	21937.92
09.06.40.07	Weir,	2120.05		1.00 EA	19,300	1,930	1,060	1,780	240	24,310	24314.89
09.06.40.08	Weir,	2140.01		1.00 EA	12,210	1,220	670	1,130	150	15,380	15381.72
09.06.40.09	Weir,	2160.01		1.00 EA	5,800	580	320	540	70	7,310	7306.05
TOTAL Weirs				9.00 EA	140,220	14,020	7,710	12,960	1,750	176,660	19628.85

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

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PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.50 Inverted Siphons										
09.06.50.02	Siphon, 2100-01, 1 each, 6	188.00 LF		48,960	4,900	2,690	4,520	610	61,680	328.08
09.06.50.03	Siphon, 2100-02, 3 each, 3	204.00 LF		65,090	6,510	3,580	6,010	810	82,000	401.97
09.06.50.04	Siphon, 2100-03, 1 each, 6	253.00 LF		61,220	6,120	3,370	5,660	760	77,130	304.85
09.06.50.05	Siphon, 2100-04, 1 each, 3	204.00 LF		24,030	2,400	1,320	2,220	300	30,270	148.39
09.06.50.06	Siphon, 2100-05, 1 each, 7	204.00 LF		83,700	8,370	4,600	7,730	1,040	105,450	516.90
09.06.50.07	Siphon, 2110-01, 2 each, 3	172.00 LF		28,040	2,800	1,540	2,590	350	35,330	205.42
09.06.50.10	Siphon, 2140-01, 2 each, 9	110.00 LF		140,980	14,100	7,750	13,030	1,760	177,620	1614.69
09.06.50.11	Siphon, 2140-02, 2 each, 7	159.00 LF		138,110	13,810	7,600	12,760	1,720	174,000	1094.35
09.06.50.12	Siphon, 2140-03, 2 each, 6	110.00 LF		66,750	6,680	3,670	6,170	830	84,100	764.52
09.06.50.13	Siphon, 2140-04, 2 each, 5	205.00 LF		84,480	8,450	4,650	7,810	1,050	106,440	519.22
09.06.50.14	Siphon, 2140-05, 2 each, 5	205.00 LF		84,480	8,450	4,650	7,810	1,050	106,440	519.22
09.06.50.15	Siphon, 2140-06, 2 each, 6	205.00 LF		122,700	12,270	6,750	11,340	1,530	154,590	754.10
09.06.50.16	Siphon, 2140-07, 2 each, 7	173.00 LF		146,130	14,610	8,040	13,500	1,820	184,100	1064.16
09.06.50.17	Siphon, 2140-08, 3 each, 5	173.00 LF		110,610	11,060	6,080	10,220	1,380	139,350	805.49
09.06.50.18	Siphon, 2160-01, 1 each, 2	224.00 LF		13,930	1,390	770	1,290	170	17,550	78.33
TOTAL Inverted Siphons			15.00 EA	1,219,200	121,920	67,060	112,650	15,210	1,536,040	102402.37
09.06.70 New Canal Landowner Takeoffs										
09.06.70.05	Excavation for Pipe	2488.59 CY		2,170	220	120	200	30	2,730	1.10
09.06.70.10	Place Pipe Bedding	67.50 CY		900	90	50	80	10	1,130	16.71
09.06.70.15	Install 24" Pipe	1350.00 LF		116,140	11,610	6,390	10,730	1,450	146,320	108.38
09.06.70.20	24" Dresser Coupling @ Inta	27.00 EA		16,850	1,690	930	1,560	210	21,230	786.31
09.06.70.25	Intake Structure for 24" P	27.00 EA		33,800	3,380	1,860	3,120	420	42,580	1577.17
09.06.70.30	24" Intake Bar Screen	11205.00 LBS		26,170	2,620	1,440	2,420	330	32,970	2.94
09.06.70.35	24" Gate Valve	27.00 EA		211,890	21,190	11,650	19,580	2,640	266,950	9887.12
09.06.70.40	Valve box	27.00 EA		1,350	140	70	120	20	1,700	62.99
09.06.70.45	Excavate for pumpwell	2430.00 CY		2,350	240	130	220	30	2,960	1.22
09.06.70.50	Install 24" Pumpwell	27.00 EA		93,820	9,380	5,160	8,670	1,170	118,210	4377.99
09.06.70.55	24" Dresser Coupling @ Pum	27.00 EA		16,850	1,690	930	1,560	210	21,230	786.31
09.06.70.60	Backfill and Compaction	4860.00 CY		8,340	830	460	770	100	10,510	2.16
09.06.70.70	Flow Meter, Purchase Cost	27.00 EA		20,340	2,030	1,120	1,880	250	25,620	948.94
TOTAL New Canal Landowner Takeof			27.00 EA	550,970	55,100	30,300	50,910	6,870	694,150	25709.18
09.06.75 Existing Canal Landowner Take										
09.06.75.05	Excavation for Pipe	1406.00 CY		1,230	120	70	110	20	1,540	1.10
09.06.75.10	Place Pipe Bedding	38.00 CY		500	50	30	50	10	630	16.71
09.06.75.15	Install 24" Pipe	760.00 LF		65,380	6,540	3,600	6,040	820	82,370	108.38
09.06.75.20	24" Dresser Coupling @ Inta	38.00 EA		23,720	2,370	1,300	2,190	300	29,880	786.31
09.06.75.25	Intake Structure for 24" P	38.00 EA		47,570	4,760	2,620	4,400	590	59,930	1577.17
09.06.75.30	24" Intake Bar Screen	15770.00 LBS		36,830	3,680	2,030	3,400	460	46,400	2.94
09.06.75.35	24" Gate Valve	38.00 EA		298,210	29,820	16,400	27,550	3,720	375,710	9887.12
09.06.75.40	Valve box	38.00 EA		1,900	190	100	180	20	2,390	62.99
09.06.75.45	Excavate for pumpwell	3420.00 CY		3,310	330	180	310	40	4,170	1.22

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.06.75.50	Install 24" Pumpwell	38.00 EA	132,050	13,200	7,260	12,200	1,650	166,360	4377.99
09.06.75.55	24" Dresser Coupling @ Pum	38.00 EA	23,720	2,370	1,300	2,190	300	29,880	786.31
09.06.75.60	Backfill and Compaction	2736.00 CY	4,700	470	260	430	60	5,920	2.16
09.06.75.70	Flow Meter, Purchase Cost	38.00 EA	28,620	2,860	1,570	2,640	360	36,060	948.94
TOTAL Existing Canal Landowner T		38.00 EA	667,730	66,770	36,730	61,700	8,330	841,260	22138.46

09.06.80 Pipeline Landowner Takeoffs

09.06.80.05	Excavation for Pipe	2856.00 CY	2,490	250	140	230	30	3,140	1.10
09.06.80.10	Place Pipe Bedding	88.06 CY	1,170	120	60	110	10	1,470	16.71
09.06.80.15	Install 12" DI Pipe	2380.00 LF	58,170	5,820	3,200	5,380	730	73,290	30.79
09.06.80.20	12" Dresser Coupling @ Inta	238.00 EA	81,780	8,180	4,500	7,560	1,020	103,030	432.92
09.06.80.25	Intake Structure for 12" P	238.00 EA	204,570	20,460	11,250	18,900	2,550	257,730	1082.91
09.06.80.30	12" Intake Bar Screen	64022.00 LBS	149,520	14,950	8,220	13,820	1,870	188,380	2.94
09.06.80.35	12" Gate Valve	238.00 EA	382,130	38,210	21,020	35,310	4,770	481,430	2022.83
09.06.80.40	Valve box	238.00 EA	11,900	1,190	650	1,100	150	14,990	62.99
09.06.80.45	Excavate for pumpwell	21420.00 CY	20,740	2,070	1,140	1,920	260	26,130	1.22
09.06.80.50	Install 24" Pumpwell	238.00 EA	827,040	82,700	45,490	76,420	10,320	1,041,960	4377.99
09.06.80.55	12" Dresser Coupling @ Pum	238.00 EA	81,780	8,180	4,500	7,560	1,020	103,030	432.92
09.06.80.60	Backfill and Compaction	24276.00 CY	41,670	4,170	2,290	3,850	520	52,500	2.16
09.06.80.70	Flow Meter, Purchase Cost	238.00 EA	179,260	17,930	9,860	16,560	2,240	225,850	948.94
TOTAL Pipeline Landowner Takeoff		238.00 EA	2,042,230	204,220	112,320	188,700	25,470	2,572,950	10810.70

09.06.85 24" CMP Drop Structures

09.06.85.05	Excavate Trench	1000.00 CY	1,190	120	70	110	10	1,490	1.49
09.06.85.10	Hand Trim Bottom of Trench	5400.00 SF	1,140	110	60	110	10	1,440	0.27
09.06.85.15	Install 24" CMP	27.00 EA	32,480	3,250	1,790	3,000	410	40,930	1515.75
09.06.85.20	Backfill & Compact 1/2 Pip	200.00 CY	430	40	20	40	10	540	2.70
09.06.85.25	Backfill & Compact to Grad	800.00 CY	380	40	20	40	0	480	0.60
TOTAL 24" CMP Drop Structures		27.00 EA	35,620	3,560	1,960	3,290	440	44,880	1662.14
TOTAL Canals Contract Area 5		1.00 EA	21,689,540	2,108,930	1,159,910	1,948,660	263,070	27,170,110	27170113

09.07 Canals Contract Area 6

09.07.01	Mob, Demob & Preparatory Work		50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W			50,000	5,000	2,750	4,620	620	62,990	

09.07.10 Canal Excavation

09.07.10.21	Canal Excavation ID-2520	89700.00 CY	78,820	7,880	4,340	7,280	980	99,310	1.11
09.07.10.24	Canal Excavation ID-2531	105700.00 LF	129,200	12,920	7,110	11,940	1,610	162,770	1.54

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.07.10.27	Canal Excavation ID-2533	28300.00 CY		74,250	7,430	4,080	6,860	930	93,550	3.31
TOTAL Canal Excavation			868600.00 CY	282,270	28,230	15,520	26,080	3,520	355,620	0.41
09.07.18 Existing Channel Improvements										
09.07.18.02	Channel Exc Skinner Branc	127586.00 CY		249,870	24,990	13,740	23,090	3,120	314,810	2.47
09.07.18.03	Channel Exc Blue Pt Ditch	208818.00 CY		320,190	32,020	17,610	29,590	3,990	403,400	1.93
09.07.18.04	Fish Trap Slough ID 2521			91,470	9,150	5,030	8,450	1,140	115,240	
09.07.18.05	Turfing Disturbed Areas ID	38.00 AC		29,180	2,920	1,600	2,700	360	36,760	967.42
TOTAL Existing Channel Improve				690,710	69,070	37,990	63,820	8,620	870,200	
09.07.20 Pipe Lines										
09.07.20.01	Pipe Line C2520, (36	12905.00 LF		890,780	89,080	48,990	82,310	11,110	1,122,270	86.96
09.07.20.03	Pipe Line 2500.01, (12" & 18	22257.00 LF		256,170	25,620	14,090	23,670	3,200	322,740	14.50
09.07.20.04	Pipe Line 2500.011, (12	1119.00 LF		5,480	550	300	510	70	6,910	6.17
09.07.20.07	Pipe Line 2500.03, (12	5460.00 LF		26,750	2,680	1,470	2,470	330	33,710	6.17
09.07.20.20	Pipe Line 2521.01, (12	5444.00 LF		31,180	3,120	1,720	2,880	390	39,290	7.22
09.07.20.21	Pipe Line 2521.011, (12	2597.00 LF		17,230	1,720	950	1,590	210	21,710	8.36
09.07.20.22	Pipe Line 2521.02, (12	5299.00 LF		30,470	3,050	1,680	2,820	380	38,390	7.25
09.07.20.23	Pipe Line 2530.01, (36	30967.00 LF		2,223,520	222,350	122,290	205,450	27,740	2,801,350	90.46
09.07.20.24	Pipe Line 2530.011, (12	2987.00 LF		14,640	1,460	800	1,350	180	18,440	6.17
09.07.20.25	Pipe Line 2530.012, (12	2726.00 LF		17,930	1,790	990	1,660	220	22,580	8.28
09.07.20.26	Pipe Line 2530.02, (12	968.00 LF		4,740	470	260	440	60	5,980	6.17
09.07.20.27	Pipe Line 2530.03, (15	4931.00 LF		43,020	4,300	2,370	3,980	540	54,200	10.99
09.07.20.28	Pipe Line 2530.04, (12	773.00 LF		3,790	380	210	350	50	4,770	6.17
09.07.20.29	Pipe Line 2530.05, (12	6614.00 LF		32,410	3,240	1,780	2,990	400	40,830	6.17
09.07.20.30	Pipe Line 2530.06, (12	2836.00 LF		13,900	1,390	760	1,280	170	17,510	6.17
09.07.20.31	Pipe Line 2530.07, (30	17890.00 LF		897,430	89,740	49,360	82,920	11,190	1,130,640	63.20
09.07.20.32	Pipe Line 2530.071, (12	2797.00 LF		13,710	1,370	750	1,270	170	17,270	6.17
09.07.20.33	Pipe Line 2531.01, (27	12235.00 LF		306,660	30,670	16,870	28,340	3,830	386,350	31.58
09.07.20.34	Pipe Line 2532.01, (12	876.00 LF		4,290	430	240	400	50	5,410	6.17
09.07.20.35	Pipe Line 2532.02, (12	2730.00 LF		17,890	1,790	980	1,650	220	22,530	8.25
09.07.20.36	Pipe Line 2532.03, (12" & 15	6535.00 LF		44,580	4,460	2,450	4,120	560	56,160	8.59
09.07.20.37	Pipe Line 2532.031, (12" & 15	10104.00 LF		90,870	9,090	5,000	8,400	1,130	114,490	11.33
09.07.20.38	Pipe Line 2532.0311, (12	1398.00 LF		6,850	690	380	630	90	8,630	6.17
09.07.20.40	Pipe Line 2532.0313, (12	1346.00 LF		11,100	1,110	610	1,030	140	13,990	10.39
09.07.20.41	Pipe Line 2532.04, (12	1920.00 LF		13,920	1,390	770	1,290	170	17,530	9.13
09.07.20.42	Pipe Line 2532.05, (12	1261.00 LF		10,690	1,070	590	990	130	13,460	10.68
09.07.20.44	Pipe Line 2533.01, (24	5397.00 LF		105,690	10,570	5,810	9,770	1,320	133,150	24.67
09.07.20.45	Pipe Line 2533.02, (30	2678.00 LF		133,470	13,350	7,340	12,330	1,660	168,150	62.79
09.07.20.46	Pipe Line 2533.021, (18" & 21	13247.00 LF		170,980	17,100	9,400	15,800	2,130	215,410	16.26
09.07.20.47	Pipe Line 2533.0211, (12	1236.00 LF		10,560	1,060	580	980	130	13,310	10.77
09.07.20.48	Pipe Line 2533.03, (12" & 18	6699.00 LF		68,330	6,830	3,760	6,310	850	86,090	12.85
09.07.20.49	Pipe Line 2533.031, (12	1288.00 LF		10,820	1,080	600	1,000	130	13,630	10.58
09.07.20.51	Pipe Line 2535.01, (15	2740.00 LF		21,060	2,110	1,160	1,950	260	26,540	9.68
09.07.20.52	Pipe Line 2535.02, (12	2712.00 LF		13,290	1,330	730	1,230	170	16,740	6.17

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.07.20.53	Pipe Line 2535.03,(12"30"3	17385.00	LF		769,790	76,980	42,340	71,130	9,600	969,840	55.79
09.07.20.54	Pipe Line 2535.031, (12	3238.00	LF		20,430	2,040	1,120	1,890	250	25,740	7.95
09.07.20.55	Pipe Line 2535.032,(15"&21	6846.00	LF		75,020	7,500	4,130	6,930	940	94,520	13.81
09.07.20.56	Pipe Line 2535.0321, (12	7244.00	LF		40,000	4,000	2,200	3,700	500	50,400	6.96
09.07.20.57	Pipe Line 2535.033,(18"&21	10216.00	LF		136,850	13,680	7,530	12,640	1,710	172,410	16.88
09.07.20.58	Pipe Line 2535.0331, (12	3232.00	LF		20,350	2,030	1,120	1,880	250	25,630	7.93
09.07.20.59	Pipe Line 2535.0332, (12	3971.00	LF		23,970	2,400	1,320	2,210	300	30,190	7.60
09.07.20.60	Pipe Line C2533, (36	16582.00	LF		1,130,400	113,040	62,170	104,450	14,100	1,424,170	85.89
09.07.20.61	Pipe Line C2535, (36	15076.00	LF		1,030,140	103,010	56,660	95,180	12,850	1,297,840	86.09
TOTAL Pipe Lines				286722.00 LF	8,811,140	881,110	484,610	814,150	109,910	11,100,930	38.72

09.07.25 Pumps

09.07.25.01	Pumps	P2300.01	15		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.03	Pumps	P2500.01	7.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.08	Pumps	P2511.01	20		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.08	Pumps	P2500.03	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.10	Pumps	P2511.02	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.11	Pumps	P2511.03	80		198,410	17,340	9,540	16,030	2,160	243,490		
09.07.25.13	Pumps	P2511.04	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.14	Pumps	P2511.05	35		160,940	13,630	7,500	12,590	1,700	196,360		
09.07.25.15	Relift Pumps	P2531A	60		197,000	17,200	9,460	15,900	2,150	241,710		
09.07.25.16	Relift Pumps	P2531B	60		197,000	17,200	9,460	15,900	2,150	241,710		
09.07.25.17	Relift Pumps	P2531C	60		197,000	17,200	9,460	15,900	2,150	241,710		
09.07.25.18	Pumps	P2520	15		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.20	Pumps	P2521.01	15		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.23	Pumps	P2530.01	65		180,710	15,570	8,570	14,390	1,940	221,180		
09.07.25.26	Pumps	P2530.02	1.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.27	Pumps	P2530.03	7.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.28	Pumps	P2530.04	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.29	Pumps	P2530.05	5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.30	Pumps	P2530.06	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.31	Pumps	P2530.07	20		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.33	Pumps	P2531.01	10		107,660	8,480	4,660	7,840	1,060	129,700		
09.07.25.34	Pumps	P2532.01	2.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.35	Pumps	P2532.02	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.36	Pumps	P2532.03	10		107,660	8,480	4,660	7,840	1,060	129,700		
09.07.25.37	Pumps	P2532.05	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.41	Pumps	P2532.04	1.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.42	Pumps	P2533	100		203,830	17,890	9,840	16,530	2,230	250,310		
09.07.25.43	Pumps	P2533.01	25		122,700	9,870	5,430	9,120	1,230	148,360		
09.07.25.44	Pumps	P2533.02	45		164,690	14,000	7,700	12,940	1,750	201,070		
09.07.25.47	Pumps	P2533.03	20		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.49	Pumps	P2535	15		116,600	9,310	5,120	8,600	1,160	140,790		
09.07.25.59	Pumps	P2540.01	0.75		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.60	Pumps	P2540.02	7.5		83,370	6,830	3,760	6,310	850	101,110		
09.07.25.61	Pumps	P2540.03	0.75		83,370	6,830	3,760	6,310	850	101,110		
TOTAL Pumps					34.00 EA	3,987,680	331,310	182,220	306,130	41,330	4,848,670	142607.92

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.07.40 Weirs									
09.07.40.01	Weir, 2530.01	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.02	Weir, 2530.02	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.03	Weir, 2530.03	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.04	Weir, 2530.04	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.05	Weir, 2530.05	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.06	Weir, 2530.06	1.00 EA	16,280	1,630	900	1,500	200	20,510	20507.22
09.07.40.07	Weir, 2530.07	1.00 EA	16,650	1,660	920	1,540	210	20,970	20972.05
09.07.40.08	Weir, 2530.08	1.00 EA	9,810	980	540	910	120	12,360	12360.49
09.07.40.09	Weir, 2530.09	1.00 EA	9,810	980	540	910	120	12,360	12360.49
09.07.40.10	Weir, 2530.10	1.00 EA	9,810	980	540	910	120	12,360	12360.49
09.07.40.11	Weir, 2530.11	1.00 EA	9,810	980	540	910	120	12,360	12360.49
09.07.40.12	Weir, 2532.01	1.00 EA	25,200	2,520	1,390	2,330	310	31,750	31751.48
09.07.40.13	Weir, 2532.02	1.00 EA	25,200	2,520	1,390	2,330	310	31,750	31751.48
09.07.40.14	Weir, 2532.03	1.00 EA	25,200	2,520	1,390	2,330	310	31,750	31751.48
09.07.40.15	Weir, 2532.04	1.00 EA	25,200	2,520	1,390	2,330	310	31,750	31751.48
TOTAL Weirs		15.00 EA	254,360	25,440	13,990	23,500	3,170	320,460	21364.22
09.07.50 Inverted Siphons									
09.07.50.01	Siphon, 2300-01, 1 each, 7	200.00 LF	82,520	8,250	4,540	7,620	1,030	103,960	519.80
09.07.50.02	Siphon, 2500-01, 2 each, 4	206.00 LF	70,340	7,030	3,870	6,500	880	88,620	430.19
09.07.50.03	Siphon, 2500-02, 2 each, 7	223.00 LF	153,970	15,400	8,470	14,230	1,920	193,980	869.89
09.07.50.04	Siphon, 2500.03, 3 each, 6	215.00 LF	188,810	18,880	10,380	17,450	2,360	237,880	1106.43
09.07.50.05	Siphon, 2520-01, 2 each, 9	142.00 LF	188,160	18,820	10,350	17,390	2,350	237,050	1669.40
09.07.50.06	Siphon, 2520.02, 2 each, 6	140.00 LF	94,050	9,410	5,170	8,690	1,170	118,500	846.41
09.07.50.07	Siphon, 2531-01, 3 each, 9	144.00 LF	247,100	24,710	13,590	22,830	3,080	311,310	2161.90
TOTAL Inverted Siphons		7.00 EA	1,024,950	102,500	56,370	94,710	12,790	1,291,310	184473.11
09.07.60 Gatewell Turnout Structures									
09.07.60.10	T-2510, Can/Can 30" Db1 Ga	1.00 EA	122,100	10,860	5,970	10,030	1,350	150,310	150313.04
09.07.60.20	T-2511, Can/Can 30" Db1 Ga	1.00 EA	120,670	10,720	5,890	9,900	1,340	148,520	148517.88
09.07.60.30	T-2520, Can/Can 30" Sgl Ga	1.00 EA	86,070	7,250	3,990	6,700	900	104,920	104922.24
09.07.60.40	T-2530-1, Can/C 48" Db1 Ga	1.00 EA	157,880	14,440	7,940	13,340	1,800	195,400	195397.32
09.07.60.50	T-2530-2, Can/C 48" Db1 Ga	1.00 EA	158,590	14,510	7,980	13,400	1,810	196,290	196290.85
09.07.60.60	T-2532, Can/Can 48" Sgl Ga	1.00 EA	102,290	8,880	4,880	8,200	1,110	125,350	125352.99
TOTAL Gatewell Turnout Structure		6.00 EA	747,590	66,650	36,660	61,580	8,310	920,790	153465.72
09.07.70 New Canal Landowner Takeoffs									
09.07.70.05	Excavation for Pipe	1198.21 CY	1,040	100	60	100	10	1,320	1.10
09.07.70.10	Place Pipe Bedding	32.50 CY	430	40	20	40	10	540	16.71
09.07.70.15	Install 24" Pipe	650.00 LF	55,920	5,590	3,080	5,170	700	70,450	108.38

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.07.70.20	24" Dresser Coupling @ Inta	13.00 EA	8,110	810	450	750	100	10,220	786.31
09.07.70.25	Intake Structure for 24" P	13.00 EA	16,270	1,630	900	1,500	200	20,500	1577.17
09.07.70.30	24" Intake Bar Screen	5395.00 LBS	12,600	1,260	690	1,160	160	15,870	2.94
09.07.70.35	24" Gate Valve	13.00 EA	102,020	10,200	5,610	9,430	1,270	128,530	9887.12
09.07.70.40	Valve box	13.00 EA	650	70	40	60	10	820	62.99
09.07.70.45	Excavate for pumpwell	1170.00 CY	1,130	110	60	100	10	1,430	1.22
09.07.70.50	Install 24" Pumpwell	13.00 EA	45,170	4,520	2,480	4,170	560	56,910	4377.99
09.07.70.55	24" Dresser Coupling @ Pum	13.00 EA	8,110	810	450	750	100	10,220	786.31
09.07.70.60	Backfill and Compaction	2340.00 CY	4,020	400	220	370	50	5,060	2.16
09.07.70.70	Flow Meter, Purchase Cost	13.00 EA	9,790	980	540	900	120	12,340	948.94
TOTAL New Canal Landowner Takeof		13.00 EA	265,280	26,530	14,590	24,510	3,310	334,220	25709.18
09.07.75 Existing Canal Landowner Take									
09.07.75.05	Excavation for Pipe	1036.00 CY	900	90	50	80	10	1,140	1.10
09.07.75.10	Place Pipe Bedding	28.00 CY	370	40	20	30	0	470	16.71
09.07.75.15	Install 24" Pipe	560.00 LF	48,180	4,820	2,650	4,450	600	60,690	108.38
09.07.75.20	24" Dresser Coupling @ Inta	28.00 EA	17,480	1,750	960	1,610	220	22,020	786.31
09.07.75.25	Intake Structure for 24" P	28.00 EA	35,050	3,510	1,930	3,240	440	44,160	1577.17
09.07.75.30	24" Intake Bar Screen	11620.00 LBS	27,140	2,710	1,490	2,510	340	34,190	2.94
09.07.75.35	24" Gate Valve	28.00 EA	219,740	21,970	12,090	20,300	2,740	276,840	9887.12
09.07.75.40	Valve box	28.00 EA	1,400	140	80	130	20	1,760	62.99
09.07.75.45	Excavate for pumpwell	2520.00 CY	2,440	240	130	230	30	3,070	1.22
09.07.75.50	Install 24" Pumpwell	28.00 EA	97,300	9,730	5,350	8,990	1,210	122,580	4377.99
09.07.75.55	24" Dresser Coupling @ Pum	28.00 EA	17,480	1,750	960	1,610	220	22,020	786.31
09.07.75.60	Backfill and Compaction	2016.00 CY	3,460	350	190	320	40	4,360	2.16
09.07.75.70	Flow Meter, Purchase Cost	28.00 EA	21,090	2,110	1,160	1,950	260	26,570	948.94
TOTAL Existing Canal Landowner T		28.00 EA	492,010	49,200	27,060	45,460	6,140	619,880	22138.46
09.07.80 Pipeline Landowner Takeoffs									
09.07.80.05	Excavation for Pipe	948.00 CY	830	80	50	80	10	1,040	1.10
09.07.80.10	Place Pipe Bedding	29.23 CY	390	40	20	40	0	490	16.71
09.07.80.15	Install 12" DI Pipe	790.00 LF	19,310	1,930	1,060	1,780	240	24,330	30.79
09.07.80.20	12" Dresser Coupling @ Inta	79.00 EA	27,150	2,710	1,490	2,510	340	34,200	432.92
09.07.80.25	Intake Structure for 12" P	79.00 EA	67,900	6,790	3,730	6,270	850	85,550	1082.91
09.07.80.30	12" Intake Bar Screen	21251.00 LBS	49,630	4,960	2,730	4,590	620	62,530	2.94
09.07.80.35	12" Gate Valve	79.00 EA	126,840	12,680	6,980	11,720	1,580	159,800	2022.83
09.07.80.40	Valve box	79.00 EA	3,950	400	220	360	50	4,980	62.99
09.07.80.45	Excavate for pumpwell	7110.00 CY	6,880	690	380	640	90	8,670	1.22
09.07.80.50	Install 24" Pumpwell	79.00 EA	274,520	27,450	15,100	25,370	3,420	345,860	4377.99
09.07.80.55	12" Dresser Coupling @ Pum	79.00 EA	27,150	2,710	1,490	2,510	340	34,200	432.92
09.07.80.60	Backfill and Compaction	8058.00 CY	13,830	1,380	760	1,280	170	17,430	2.16
09.07.80.70	Flow Meter, Purchase Cost	79.00 EA	59,500	5,950	3,270	5,500	740	74,970	948.94
TOTAL Pipeline Landowner Takeoff		79.00 EA	677,880	67,790	37,280	62,640	8,460	854,050	10810.70

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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SUMMARY PAGE 121

		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.07.85 24" CMP Drop Structures									
09.07.85.05	Excavate Trench	222.22 CY	260	30	10	20	0	330	1.49
09.07.85.10	Hand Trim Bottom of Trench	1200.00 SF	250	30	10	20	0	320	0.27
09.07.85.15	Install 24" CMP	6.00 EA	7,220	720	400	670	90	9,090	1515.75
09.07.85.20	Backfill & Compact 1/2 Pip	44.44 CY	100	10	10	10	0	120	2.70
09.07.85.25	Backfill & Compact to Grad	177.78 CY	80	10	0	10	0	110	0.60
TOTAL 24" CMP Drop Structures		6.00 EA	7,920	790	440	730	100	9,970	1662.14
TOTAL Canals Contract Area 6		1.00 EA	17,291,800	1,653,610	909,490	1,527,940	206,270	21,589,100	21589104
09.08 Canals Contract Area 7A									
09.08.01 Mob, Demob & Preparatory Work			50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W			50,000	5,000	2,750	4,620	620	62,990	
09.08.18 Canal Excavation									
09.08.18.01	Canal Excavation ID-2110	229900.00 CY	199,010	19,900	10,950	18,390	2,480	250,720	1.09
09.08.18.03	Canal Excavation ID-2220	86500.00 CY	67,020	6,700	3,690	6,190	840	84,440	0.98
TOTAL Canal Excavation		120.00 AC	266,030	26,600	14,630	24,580	3,320	335,160	2793.02
09.08.19 Existing Channel Improvements									
09.08.19.30	Chan Exc Crooked Cr Ditch	660899.00 CY	928,220	92,820	51,050	85,770	11,580	1,169,440	1.77
09.08.19.40	Chan Clrg and Sng Big Ditch		501,290	50,130	27,570	46,320	6,250	631,560	
TOTAL Existing Channel Improve		120.00 AC	1,429,510	142,950	78,620	132,090	17,830	1,801,000	15008.37
09.08.20 Pipe Lines									
09.08.20.01	Pipe Line 2200.01, (12	2578.00 LF	17,140	1,710	940	1,580	210	21,600	8.38
09.08.20.02	Pipe Line 2200.02, (12	2441.00 LF	16,470	1,650	910	1,520	210	20,750	8.50
09.08.20.03	Pipe Line 2200.03, (18"&27	3752.00 LF	69,230	6,920	3,810	6,400	860	87,220	23.25
09.08.20.04	Pipe Line 2200.031, (18	2640.00 LF	34,590	3,460	1,900	3,200	430	43,580	16.51
09.08.20.06	Pipe Line 2200.05, (12	4827.00 LF	23,650	2,370	1,300	2,190	300	29,800	6.17
09.08.20.07	Pipe Line 2200.051, (12	1399.00 LF	6,860	690	380	630	90	8,640	6.17
09.08.20.10	Pipe Line 2200.06, (12	2943.00 LF	14,420	1,440	790	1,330	180	18,170	6.17
09.08.20.11	Pipe Line 2200.07, (12"&18	7934.00 LF	84,520	8,450	4,650	7,810	1,050	106,490	13.42
09.08.20.12	Pipe Line 2200.071, (12	3294.00 LF	20,710	2,070	1,140	1,910	260	26,090	7.92
09.08.20.13	Pipe Line 2200.08, (21"&36	16962.00 LF	889,780	88,980	48,940	82,220	11,100	1,121,010	66.09
09.08.20.14	Pipe Line 2200.081, (12	1271.00 LF	6,230	620	340	580	80	7,850	6.17
09.08.20.15	Pipe Line 2200.082, (18"&2	21580.00 LF	344,120	34,410	18,930	31,800	4,290	433,550	20.09
09.08.20.16	Pipe Line 2200.0821, (12	5682.00 LF	32,350	3,240	1,780	2,990	400	40,760	7.17

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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SUMMARY PAGE 122

			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.08.20.17	Pipe Line 2200.0822,	(21	9451.00 LF	146,430	14,640	8,050	13,530	1,830	184,490	19.52
09.08.20.18	Pipe Line 2200.083,	(12	1210.00 LF	5,930	590	330	550	70	7,470	6.17
09.08.20.19	Pipe Line 2200.09,	(21	18466.00 LF	286,460	28,650	15,760	26,470	3,570	360,910	19.54
09.08.20.20	Pipe Line 2200.091,	(12	2690.00 LF	13,180	1,320	720	1,220	160	16,610	6.17
09.08.20.21	Pipe Line 2200.092,	(12	3283.00 LF	16,090	1,610	880	1,490	200	20,270	6.17
09.08.20.22	Pipe Line 2200.093,(12"&18		7948.00 LF	64,940	6,490	3,570	6,000	810	81,810	10.29
09.08.20.23	Pipe Line 2200.0931,	(12	2640.00 LF	17,440	1,740	960	1,610	220	21,980	8.32
09.08.20.24	Pipe Line 2200.0932,	(12	13889.00 LF	77,130	7,710	4,240	7,130	960	97,180	7.00
09.08.20.25	Pipe Line 2200.09321,	(12	2540.00 LF	12,450	1,240	680	1,150	160	15,680	6.17
09.08.20.27	PipeLine2200.1,(12"18"24"3		17308.00 LF	606,880	60,690	33,380	56,080	7,570	764,590	44.18
09.08.20.28	Pipe Line 2200.101,	(12	9460.00 LF	50,860	5,090	2,800	4,700	630	64,080	6.77
09.08.20.29	Pipe Line 2200.1011,	(12	1350.00 LF	6,620	660	360	610	80	8,330	6.17
09.08.20.31	Pipe Line 2200.102,	(12	1377.00 LF	6,750	670	370	620	80	8,500	6.17
09.08.20.33	Pipe Line 2200.104,	(12	5306.00 LF	30,510	3,050	1,680	2,820	380	38,440	7.24
09.08.20.34	Pipe Line 2200.1041,	(12	6686.00 LF	32,760	3,280	1,800	3,030	410	41,280	6.17
09.08.20.37	Pipe Line 2200.11,(21"&24		20028.00 LF	364,900	36,490	20,070	33,720	4,550	459,730	22.95
09.08.20.38	Pipe Line 2200.111,	(12	1322.00 LF	6,480	650	360	600	80	8,160	6.17
09.08.20.39	Pipe Line 2200.112,	(12	4007.00 LF	19,630	1,960	1,080	1,810	240	24,740	6.17
09.08.20.40	Pipe Line 2200.12,	(12	2441.00 LF	11,960	1,200	660	1,110	150	15,070	6.17
09.08.20.41	Pipe Line 2220.01,	(12	1705.00 LF	8,350	840	460	770	100	10,530	6.17
09.08.20.42	Pipe Line 2240.01,	(18	2946.00 LF	32,160	3,220	1,770	2,970	400	40,510	13.75
09.08.20.43	Pipe Line 2240.02,	(15	4964.00 LF	38,160	3,820	2,100	3,530	480	48,070	9.68
09.08.20.44	Pipe Line 2240.03,	(15	4634.00 LF	35,620	3,560	1,960	3,290	440	44,880	9.68
09.08.20.45	Pipe Line 2240.04,	(12	3498.00 LF	17,140	1,710	940	1,580	210	21,590	6.17
09.08.20.46	Pipe Line 2240.041,	(12	1325.00 LF	6,490	650	360	600	80	8,180	6.17
09.08.20.47	Pipe Line 2240.05,	(27	10372.00 LF	245,500	24,550	13,500	22,680	3,060	309,300	29.82
09.08.20.48	Pipe Line 2240.06,	(36	20118.00 LF	1,444,440	144,440	79,440	133,470	18,020	1,819,820	90.46
09.08.20.49	Pipe Line 2240.061,	(12	3986.00 LF	19,530	1,950	1,070	1,800	240	24,610	6.17
09.08.20.51	Pipe Line 2260.01,	(12	4175.00 LF	20,460	2,050	1,130	1,890	260	25,770	6.17
09.08.20.52	Pipe Line 2260.02,	(12	1173.00 LF	5,750	570	320	530	70	7,240	6.17
09.08.20.53	Pipe Line 2260.03,	(12	1752.00 LF	8,580	860	470	790	110	10,820	6.17
09.08.20.54	Pipe Line 2260.04,	(21	7492.00 LF	109,990	11,000	6,050	10,160	1,370	138,570	18.50
09.08.20.55	Pipe Line 2260.041,	(12	7072.00 LF	34,650	3,470	1,910	3,200	430	43,660	6.17
09.08.20.56	Pipe Line 2260.042,	(15	7752.00 LF	59,590	5,960	3,280	5,510	740	75,070	9.68
09.08.20.57	Pipe Line 2260.05,(18"&33		13580.00 LF	237,850	23,790	13,080	21,980	2,970	299,660	22.07
09.08.20.58	Pipe Line 2260.051,	(21	2384.00 LF	35,000	3,500	1,920	3,230	440	44,090	18.50
09.08.20.59	Pipe Line 2280.01,	(12	1270.00 LF	6,220	620	340	580	80	7,840	6.17
09.08.20.60	Pipe Line 2280.02,	(12	7240.00 LF	35,480	3,550	1,950	3,280	440	44,700	6.17
09.08.20.61	Pipe Line 2280.03,	(12	5356.00 LF	26,240	2,620	1,440	2,420	330	33,060	6.17
09.08.20.62	Pipe Line 2280.04,	(12	1356.00 LF	11,150	1,120	610	1,030	140	14,050	10.36
09.08.20.63	Pipe Line 2280.05,	(18	5408.00 LF	59,030	5,900	3,250	5,450	740	74,370	13.75
09.08.20.64	Pipe Line 2280.06,	(12	1533.00 LF	7,510	750	410	690	90	9,460	6.17
09.08.20.65	Pipe Line 2280.07,(12"&24		8705.00 LF	79,000	7,900	4,350	7,300	990	99,540	11.43
09.08.20.66	Pipe Line 2280.071,	(15	1253.00 LF	9,630	960	530	890	120	12,130	9.68
09.08.20.67	Pipe Line 2280.08,(12"&36		5801.00 LF	379,680	37,970	20,880	35,080	4,740	478,350	82.46
09.08.20.68	Pipe Line 2280.09(12"30"&3		13937.00 LF	339,110	33,910	18,650	31,330	4,230	427,240	30.65
09.08.20.69	Pipe Line 2280.091(18"&21		16172.00 LF	187,950	18,790	10,340	17,370	2,340	236,790	14.64
09.08.20.70	Pipe Line 2280.0911,	(12	1330.00 LF	6,520	650	360	600	80	8,210	6.17
09.08.20.72	Pipe Line 2280.0913,	(12	1312.00 LF	6,430	640	350	590	80	8,100	6.17
09.08.20.73	Pipe Line 2280.092,(15"&2		2686.00 LF	30,970	3,100	1,700	2,860	390	39,020	14.53

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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Mon 28 Apr 2003
Eff. Date 04/11/03

U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.08.20.74	Pipe Line 2280.0921.	(15	623.00 LF		4,790	480	260	440	60	6,030	9.68
TOTAL Pipe Lines				381615.00 LF	6,886,460	688,650	378,760	636,310	85,900	8,676,070	22.74
09.08.25 Pumps											
09.08.25.01	Pumps P2200.01	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.02	Pumps P2200.02	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.03	Pumps P2200.03	25			122,700	9,870	5,430	9,120	1,230	148,360	
09.08.25.06	Pumps P2200.05	5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.10	Pumps P2200.06	2			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.11	Pumps P2200.07	15			116,600	9,310	5,120	8,600	1,160	140,790	
09.08.25.13	Pumps P2200.08	85			198,410	17,340	9,540	16,030	2,160	243,490	
09.08.25.19	Pumps P2200.09	35			160,940	13,630	7,500	12,590	1,700	196,360	
09.08.25.27	Pumps P2200.10	75			184,250	15,930	8,760	14,720	1,990	225,650	
09.08.25.37	Pumps P2200.11	30			122,700	9,870	5,430	9,120	1,230	148,360	
09.08.25.40	Pumps P2200.12	1.5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.41	Pumps P2220.01	1			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.42	Pumps P2240.01	10			107,660	8,480	4,660	7,840	1,060	129,700	
09.08.25.43	Pumps P2240.02	5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.44	Pumps P2240.03	5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.45	Pumps P2240.04	2.5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.47	Pumps P2240.05	20			116,600	9,310	5,120	8,600	1,160	140,790	
09.08.25.48	Pumps P2240.06	50			171,210	14,660	8,060	13,540	1,830	209,300	
09.08.25.49	Pumps P2220A	25			127,970	10,450	5,750	9,650	1,300	155,120	
09.08.25.50	Pumps P2220B	25			127,970	10,450	5,750	9,650	1,300	155,120	
09.08.25.51	Pumps 2260.01	2			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.52	Pumps 2260.02	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.53	Pumps 2260.03	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.54	Pumps 2260.04	20			116,600	9,310	5,120	8,600	1,160	140,790	
09.08.25.57	Pumps 2260.05	40			164,690	14,000	7,700	12,940	1,750	201,070	
09.08.25.59	Pumps 2280.01	2			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.60	Pumps 2280.02	3			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.61	Pumps 2280.03	5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.62	Pumps 2280.04	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.63	Pumps 2280.05	7.5			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.64	Pumps 2280.07	15			116,600	9,310	5,120	8,600	1,160	140,790	
09.08.25.65	Pumps 2280.06	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.08.25.66	Pumps 2280.08	60			171,970	14,720	8,100	13,600	1,840	210,220	
TOTAL Pumps				33.00 EA	3,627,500	299,560	164,760	276,790	37,370	4,405,970	133514.27
09.08.40 Weirs											
09.08.40.01	Weir, 2200.02		1.00 EA		16,740	1,670	920	1,550	210	21,090	21092.44
09.08.40.02	Weir, 2200.03		1.00 EA		16,740	1,670	920	1,550	210	21,090	21092.44
09.08.40.03	Weir, 2200.04		1.00 EA		16,740	1,670	920	1,550	210	21,090	21092.44
09.08.40.04	Weir, 2200.05		1.00 EA		16,740	1,670	920	1,550	210	21,090	21092.44
09.08.40.05	Weir, 2200.06		1.00 EA		16,850	1,680	930	1,560	210	21,230	21227.78

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

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Bayou Meto Feasibility Estimate APRIL 28,2003
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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.08.40.06	Weir, 2200.07	1.00 EA	34,610	3,460	1,900	3,200	430	43,610	43606.22
09.08.40.07	Weir, 2240.01	1.00 EA	22,090	2,210	1,220	2,040	280	27,830	27832.78
09.08.40.08	Weir, 2240.02	1.00 EA	26,600	2,660	1,460	2,460	330	33,510	33509.97
09.08.40.09	Weir, 2240.03	1.00 EA	28,060	2,810	1,540	2,590	350	35,350	35354.06
09.08.40.10	Weir, 2240.04	1.00 EA	26,600	2,660	1,460	2,460	330	33,510	33511.26
TOTAL Weirs		10.00 EA	221,780	22,180	12,200	20,490	2,770	279,410	27941.18
09.08.50 Inverted Siphons									
09.08.50.01	Siphon, 2220-01, 2 each, 4	123.00 LF	48,960	4,900	2,690	4,520	610	61,680	501.47
09.08.50.02	Siphon, 2220-02, 2 each, 5	123.00 LF	59,480	5,950	3,270	5,500	740	74,940	609.29
09.08.50.03	Siphon, 2220-03, 3 each, 5	123.00 LF	88,170	8,820	4,850	8,150	1,100	111,080	903.11
TOTAL Inverted Siphons		3.00 EA	196,610	19,660	10,810	18,170	2,450	247,710	82568.74
09.08.60 Gatewell Turnout Structures									
09.08.60.20	T-2200, Can/C, 60" Trpl Ga	1.00 EA	254,590	24,110	13,260	22,280	3,010	317,240	317242.69
09.08.60.30	T-2240, Can/Can 30" Db1 Ga	1.00 EA	121,880	10,840	5,960	10,010	1,350	150,040	150042.28
TOTAL Gatewell Turnout Structure		2.00 EA	376,480	34,940	19,220	32,290	4,360	467,280	233642.48
09.08.70 New Canal Landowner Takeoffs(									
09.08.70.05	Excavation for Pipe	368.68 CY	320	30	20	30	0	400	1.10
09.08.70.10	Place Pipe Bedding	10.00 CY	130	10	10	10	0	170	16.71
09.08.70.15	Install 24" Pipe	200.00 LF	17,210	1,720	950	1,590	210	21,680	108.38
09.08.70.20	24" Dresser Coupling @ Inta	4.00 EA	2,500	250	140	230	30	3,150	786.31
09.08.70.25	Intake Structure for 24" P	4.00 EA	5,010	500	280	460	60	6,310	1577.17
09.08.70.30	24" Intake Bar Screen	1660.00 LBS	3,880	390	210	360	50	4,880	2.94
09.08.70.35	24" Gate Valve	4.00 EA	31,390	3,140	1,730	2,900	390	39,550	9887.12
09.08.70.40	Valve box	4.00 EA	200	20	10	20	0	250	62.99
09.08.70.45	Excavate for pumpwell	360.00 CY	350	30	20	30	0	440	1.22
09.08.70.50	Install 24" Pumpwell	4.00 EA	13,900	1,390	760	1,280	170	17,510	4377.99
09.08.70.55	24" Dresser Coupling @ Pum	4.00 EA	2,500	250	140	230	30	3,150	786.31
09.08.70.60	Backfill and Compaction	720.00 CY	1,240	120	70	110	20	1,560	2.16
09.08.70.70	Flow Meter, Purchase Cost	4.00 EA	3,010	300	170	280	40	3,800	948.94
TOTAL New Canal Landowner Takeof		4.00 EA	81,620	8,160	4,490	7,540	1,020	102,840	25709.18
09.08.75 Existing Canal LO Takeoffs (									
09.08.75.05	Excavation for Pipe	1295.00 CY	1,130	110	60	100	10	1,420	1.10
09.08.75.10	Place Pipe Bedding	35.00 CY	460	50	30	40	10	580	16.71
09.08.75.15	Install 24" Pipe	700.00 LF	60,220	6,020	3,310	5,560	750	75,870	108.38
09.08.75.20	24" Dresser Coupling @ Inta	35.00 EA	21,840	2,180	1,200	2,020	270	27,520	786.31

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.08.75.25 Intake Structure for 24" P	35.00 EA	43,810	4,380	2,410	4,050	550	55,200	1577.17
09.08.75.30 24" Intake Bar Screen	14525.00 LBS	33,920	3,390	1,870	3,130	420	42,740	2.94
09.08.75.35 24" Gate Valve	35.00 EA	274,670	27,470	15,110	25,380	3,430	346,050	9887.12
09.08.75.40 Valve box	35.00 EA	1,750	180	100	160	20	2,200	62.99
09.08.75.45 Excavate for pumpwell	3150.00 CY	3,050	310	170	280	40	3,840	1.22
09.08.75.50 Install 24" Pumpwell	35.00 EA	121,620	12,160	6,690	11,240	1,520	153,230	4377.99
09.08.75.55 24" Dresser Coupling @ Pum	35.00 EA	21,840	2,180	1,200	2,020	270	27,520	786.31
09.08.75.60 Backfill and Compaction	2520.00 CY	4,330	430	240	400	50	5,450	2.16
09.08.75.70 Flow Meter, Purchase Cost	35.00 EA	26,360	2,640	1,450	2,440	330	33,210	948.94
TOTAL Existing Canal LO Takeoffs	35.00 EA	615,020	61,500	33,830	56,830	7,670	774,850	22138.46

09.08.80 Pipeline Landowner Takeoffs (

09.08.80.05 Excavation for Pipe	264.00 CY	230	20	10	20	0	290	1.10
09.08.80.10 Place Pipe Bedding	8.14 CY	110	10	10	10	0	140	16.71
09.08.80.15 Install 12" DI Pipe	220.00 LF	5,380	540	300	500	70	6,770	30.79
09.08.80.20 12" Dresser Coupling @ Inta	22.00 EA	7,560	760	420	700	90	9,520	432.92
09.08.80.25 Intake Structure for 12" P	22.00 EA	18,910	1,890	1,040	1,750	240	23,820	1082.91
09.08.80.30 12" Intake Bar Screen	5918.00 LBS	13,820	1,380	760	1,280	170	17,410	2.94
09.08.80.35 12" Gate Valve	22.00 EA	35,320	3,530	1,940	3,260	440	44,500	2022.83
09.08.80.40 Valve box	22.00 EA	1,100	110	60	100	10	1,390	62.99
09.08.80.45 Excavate for pumpwell	1980.00 CY	1,920	190	110	180	20	2,420	1.22
09.08.80.50 Install 24" Pumpwell	22.00 EA	76,450	7,640	4,200	7,060	950	96,320	4377.99
09.08.80.55 12" Dresser Coupling @ Pum	22.00 EA	7,560	760	420	700	90	9,520	432.92
09.08.80.60 Backfill and Compaction	2244.00 CY	3,850	390	210	360	50	4,850	2.16
09.08.80.70 Flow Meter, Purchase Cost	22.00 EA	16,570	1,660	910	1,530	210	20,880	948.94
TOTAL Pipeline Landowner Takeoff	22.00 EA	188,780	18,880	10,380	17,440	2,350	237,840	10810.70

09.08.85 24" CMP Drop Structures (7A)

09.08.85.05 Excavate Trench	185.19 CY	220	20	10	20	0	280	1.49
09.08.85.10 Hand Trim Bottom of Trench	1000.00 SF	210	20	10	20	0	270	0.27
09.08.85.15 Install 24" CMP	5.00 EA	6,020	600	330	560	80	7,580	1515.75
09.08.85.20 Backfill & Compact 1/2 Pip	37.04 CY	80	10	0	10	0	100	2.70
09.08.85.25 Backfill & Compact to Grad	148.15 CY	70	10	0	10	0	90	0.60
TOTAL 24" CMP Drop Structures (7	5.00 EA	6,600	660	360	610	80	8,310	1662.14

TOTAL Canals Contract Area 7A	1.00 EA	13,946,380	1,328,740	730,810	1,227,760	165,750	17,399,430	17399435
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09.09 Canals Contract Area 7B

09.09.20 Pumps

09.09.20.10 Pumps P2260A 40 Relift	1.00 EA	180,660	15,600	8,580	14,410	1,950	221,210	221205.16
09.09.20.20 Pumps P2260B 40 Relift	1.00 EA	180,660	15,600	8,580	14,410	1,950	221,210	221205.16

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.09.20.30	Pumps P2280A 25 Relift	1.00 EA	130,630	10,710	5,890	9,900	1,340	158,470	158467.11
09.09.20.40	Pumps P2280B 25 Relift	1.00 EA	130,630	10,710	5,890	9,900	1,340	158,470	158467.11
TOTAL Pumps		4.00 EA	622,590	52,620	28,940	48,630	6,560	759,340	189836.13
09.09.25 Canal Excavation									
09.09.25.05	Canal Excavation ID-2260	415200.00 CY	292,780	29,280	16,100	27,050	3,650	368,860	0.89
09.09.25.06	Canal Excavation ID-2280	161000.00 CY	183,210	18,320	10,080	16,930	2,290	230,820	1.43
TOTAL Canal Excavation		4.00 EA	475,990	47,600	26,180	43,980	5,940	599,690	149921.32
09.09.71 New Canal Landowner Takeoffs(									
09.09.71.05	Excavation for Pipe	1106.04 CY	960	100	50	90	10	1,210	1.10
09.09.71.10	Place Pipe Bedding	30.00 CY	400	40	20	40	0	500	16.71
09.09.71.15	Install 24" Pipe	600.00 LF	51,620	5,160	2,840	4,770	640	65,030	108.38
09.09.71.20	24" Dresser Coupling @ Inta	12.00 EA	7,490	750	410	690	90	9,440	786.31
09.09.71.25	Intake Structure for 24" P	12.00 EA	15,020	1,500	830	1,390	190	18,930	1577.17
09.09.71.30	24" Intake Bar Screen	4980.00 LBS	11,630	1,160	640	1,070	150	14,650	2.94
09.09.71.35	24" Gate Valve	12.00 EA	94,170	9,420	5,180	8,700	1,170	118,650	9887.12
09.09.71.40	Valve box	12.00 EA	600	60	30	60	10	760	62.99
09.09.71.45	Excavate for pumpwell	1080.00 CY	1,050	100	60	100	10	1,320	1.22
09.09.71.50	Install 24" Pumpwell	12.00 EA	41,700	4,170	2,290	3,850	520	52,540	4377.99
09.09.71.55	24" Dresser Coupling @ Pum	12.00 EA	7,490	750	410	690	90	9,440	786.31
09.09.71.60	Backfill and Compaction	2160.00 CY	3,710	370	200	340	50	4,670	2.16
09.09.71.70	Flow Meter, Purchase Cost	12.00 EA	9,040	900	500	840	110	11,390	948.94
TOTAL New Canal Landowner Takeof		12.00 EA	244,870	24,490	13,470	22,630	3,050	308,510	25709.18
09.09.81 Pipeline Landowner Takeoffs (									
09.09.81.05	Excavation for Pipe	1512.00 CY	1,320	130	70	120	20	1,660	1.10
09.09.81.10	Place Pipe Bedding	46.62 CY	620	60	30	60	10	780	16.71
09.09.81.15	Install 12" DI Pipe	1260.00 LF	30,800	3,080	1,690	2,850	380	38,800	30.79
09.09.81.20	12" Dresser Coupling @ Inta	126.00 EA	43,300	4,330	2,380	4,000	540	54,550	432.92
09.09.81.25	Intake Structure for 12" P	126.00 EA	108,300	10,830	5,960	10,010	1,350	136,450	1082.91
09.09.81.30	12" Intake Bar Screen	33894.00 LBS	79,160	7,920	4,350	7,310	990	99,730	2.94
09.09.81.35	12" Gate Valve	126.00 EA	202,300	20,230	11,130	18,690	2,520	254,880	2022.83
09.09.81.40	Valve box	126.00 EA	6,300	630	350	580	80	7,940	62.99
09.09.81.45	Excavate for pumpwell	11340.00 CY	10,980	1,100	600	1,010	140	13,830	1.22
09.09.81.50	Install 24" Pumpwell	126.00 EA	437,840	43,780	24,080	40,460	5,460	551,630	4377.99
09.09.81.55	12" Dresser Coupling @ Pum	126.00 EA	43,300	4,330	2,380	4,000	540	54,550	432.92
09.09.81.60	Backfill and Compaction	12852.00 CY	22,060	2,210	1,210	2,040	280	27,800	2.16
09.09.81.70	Flow Meter, Purchase Cost	126.00 EA	94,900	9,490	5,220	8,770	1,180	119,570	948.94
TOTAL Pipeline Landowner Takeoff		126.00 EA	1,081,180	108,120	59,460	99,900	13,490	1,362,150	10810.70

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09.09.86 24" CMP Drop Structures (7B)									
09.09.86.05	Excavate Trench	518.52 CY	610	60	30	60	10	770	1.49
09.09.86.10	Hand Trim Bottom of Trench	2800.00 SF	590	60	30	50	10	750	0.27
09.09.86.15	Install 24" CMP	14.00 EA	16,840	1,680	930	1,560	210	21,220	1515.75
09.09.86.20	Backfill & Compact 1/2 Pip	103.70 CY	220	20	10	20	0	280	2.70
09.09.86.25	Backfill & Compact to Grad	414.81 CY	200	20	10	20	0	250	0.60
TOTAL 24" CMP Drop Structures (7		14.00 EA	18,470	1,850	1,020	1,710	230	23,270	1662.14
TOTAL Canals Contract Area 7B		1.00 EA	2,443,100	234,680	129,070	216,840	29,270	3,052,960	3052959
09.10 Canals Contract Area 8									
09.10.01	Mob, Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
TOTAL Mob, Demob & Preparatory W			20,000	2,000	1,100	1,850	250	25,200	
09.10.30 Check Structures									
09.10.30.01	Check Structure C-2500R	1.00 EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
TOTAL Check Structures		1.00 EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
09.10.70 New Canal Landowner Takeoffs									
09.10.70.05	Excavation for Pipe	184.34 CY	160	20	10	10	0	200	1.10
09.10.70.10	Place Pipe Bedding	5.00 CY	70	10	0	10	0	80	16.71
09.10.70.15	Install 24" Pipe	100.00 LF	8,600	860	470	790	110	10,840	108.38
09.10.70.20	24" Dresser Coupling @ Inta	2.00 EA	1,250	120	70	120	20	1,570	786.30
09.10.70.25	Intake Structure for 24" P	2.00 EA	2,500	250	140	230	30	3,150	1577.17
09.10.70.30	24" Intake Bar Screen	830.00 LBS	1,940	190	110	180	20	2,440	2.94
09.10.70.35	24" Gate Valve	2.00 EA	15,700	1,570	860	1,450	200	19,770	9887.12
09.10.70.40	Valve box	2.00 EA	100	10	10	10	0	130	62.99
09.10.70.45	Excavate for pumpwell	180.00 CY	170	20	10	20	0	220	1.22
09.10.70.50	Install 24" Pumpwell	2.00 EA	6,950	690	380	640	90	8,760	4377.99
09.10.70.55	24" Dresser Coupling @ Pum	2.00 EA	1,250	120	70	120	20	1,570	786.30
09.10.70.60	Backfill and Compaction	360.00 CY	620	60	30	60	10	780	2.16
09.10.70.70	Flow Meter, Purchase Cost	2.00 EA	1,510	150	80	140	20	1,900	948.94
TOTAL New Canal Landowner Takeof		2.00 EA	40,810	4,080	2,240	3,770	510	51,420	25709.17
TOTAL Canals Contract Area 8		1.00 EA	869,000	86,900	47,790	80,300	10,840	1,094,830	1094829
09.11 Canals Contract Area 9									

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.11.01 Mob, Demob & Preparatory Work				25,000	2,500	1,380	2,310	310	31,500	
TOTAL Mob, Demob & Preparatory W				25,000	2,500	1,380	2,310	310	31,500	
09.11.05 Canal Excavation										
09.11.05.01	Canal Excavation ID-2500	409600.00 CY		264,360	26,440	14,540	24,430	3,300	333,060	0.81
09.11.05.02	Canal Excavation ID-2510	41500.00 CY		26,310	2,630	1,450	2,430	330	33,150	0.80
TOTAL Canal Excavation			451100.00 CY	290,670	29,070	15,990	26,860	3,630	366,210	0.81
09.11.30 Check Structures										
09.11.30.01	Check Structure C-2500.1	1.00 EA		743,040	74,300	40,870	68,660	9,270	936,140	936135.68
09.11.30.02	Check Structure C-2500.2	1.00 EA		731,150	73,120	40,210	67,560	9,120	921,160	921162.39
TOTAL Check Structures			2.00 EA	1,474,190	147,420	81,080	136,220	18,390	1,857,300	928649.04
09.11.70 New Canal Landowner Takeoffs										
09.11.70.05	Excavation for Pipe	829.53 CY		720	70	40	70	10	910	1.10
09.11.70.10	Place Pipe Bedding	22.50 CY		300	30	20	30	0	380	16.71
09.11.70.15	Install 24" Pipe	450.00 LF		38,710	3,870	2,130	3,580	480	48,770	108.38
09.11.70.20	24" Dresser Coupling @ Inta	9.00 EA		5,620	560	310	520	70	7,080	786.31
09.11.70.25	Intake Structure for 24" P	9.00 EA		11,270	1,130	620	1,040	140	14,190	1577.17
09.11.70.30	24" Intake Bar Screen	3735.00 LBS		8,720	870	480	810	110	10,990	2.94
09.11.70.35	24" Gate Valve	9.00 EA		70,630	7,060	3,880	6,530	880	88,980	9887.12
09.11.70.40	Valve box	9.00 EA		450	50	20	40	10	570	62.99
09.11.70.45	Excavate for pumpwell	810.00 CY		780	80	40	70	10	990	1.22
09.11.70.50	Install 24" Pumpwell	9.00 EA		31,270	3,130	1,720	2,890	390	39,400	4377.99
09.11.70.55	24" Dresser Coupling @ Pum	9.00 EA		5,620	560	310	520	70	7,080	786.31
09.11.70.60	Backfill and Compaction	1620.00 CY		2,780	280	150	260	30	3,500	2.16
09.11.70.70	Flow Meter, Purchase Cost	9.00 EA		6,780	680	370	630	80	8,540	948.94
TOTAL New Canal Landowner Takeof			9.00 EA	183,660	18,370	10,100	16,970	2,290	231,380	25709.18
TOTAL Canals Contract Area 9			1.00 EA	1,973,520	197,350	108,540	182,350	24,620	2,486,390	2486386
09.12 Canals Contract Area 10										
09.12.01 Mob, Demob & Preparatory Work				25,000	2,500	1,380	2,310	310	31,500	
TOTAL Mob, Demob & Preparatory W				25,000	2,500	1,380	2,310	310	31,500	
09.12.10 Canal Excavation										

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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** PROJECT INDIRECT SUMMARY - Level 4 (Rounded to 10's) **

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.12.10.01 Canal Excavation ID-3000	1372100 CY	720,330	72,030	39,620	66,560	8,990	907,520	0.66
TOTAL Canal Excavation	1372100 CY	720,330	72,030	39,620	66,560	8,990	907,520	0.66
09.12.30 Check Structures								
09.12.30.01 Check Structure C-3000	1.00 EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
TOTAL Check Structures	1.00 EA	808,190	80,820	44,450	74,680	10,080	1,018,210	1018213
09.12.50 Inverted Siphons								
09.12.50.01 Siphon, 3000-01, 2 each, 4	205.00 LF	70,080	7,010	3,850	6,480	870	88,290	430.70
09.12.50.02 Siphon, 3000-02, 2 each, 4	205.00 LF	59,370	5,940	3,270	5,490	740	74,790	364.85
09.12.50.03 Siphon, 3000-03, 1 each, 7	218.00 LF	87,820	8,780	4,830	8,120	1,100	110,650	507.56
09.12.50.04 Siphon, 3000-04, 1 each, 4	320.00 LF	52,600	5,260	2,890	4,860	660	66,270	207.09
09.12.50.05 Siphon, 3000-05, 3 each, 6	300.00 LF	199,630	19,960	10,980	18,450	2,490	251,510	838.37
09.12.50.06 Siphon, 3000-06, 3 each, 6	300.00 LF	199,630	19,960	10,980	18,450	2,490	251,510	838.37
09.12.50.07 Siphon, 3000-07, 2 each, 6	230.00 LF	110,130	11,010	6,060	10,180	1,370	138,750	603.25
09.12.50.10 Siphon, 3000-10, 2 each, 6	300.00 LF	135,430	13,540	7,450	12,510	1,690	170,630	568.76
TOTAL Inverted Siphons	8.00 EA	914,690	91,470	50,310	84,520	11,410	1,152,400	144049.94
09.12.60 Gatewell Turnout Structures								
09.12.60.10 T-3000R, C/C, 60" Tripl Ga	1.00 EA	252,950	23,940	13,170	22,120	2,990	315,170	315166.06
TOTAL Gatewell Turnout Structure	1.00 EA	252,950	23,940	13,170	22,120	2,990	315,170	315166.06
09.12.70 New Canal Landowner Takeoffs								
09.12.70.05 Excavation for Pipe	737.36 CY	640	60	40	60	10	810	1.10
09.12.70.10 Place Pipe Bedding	20.00 CY	270	30	10	20	0	330	16.71
09.12.70.15 Install 24" Pipe	400.00 LF	34,410	3,440	1,890	3,180	430	43,350	108.38
09.12.70.20 24" Dresser Coupling @ Inta	8.00 EA	4,990	500	270	460	60	6,290	786.31
09.12.70.25 Intake Structure for 24" P	8.00 EA	10,010	1,000	550	930	120	12,620	1577.17
09.12.70.30 24" Intake Bar Screen	3320.00 LBS	7,750	780	430	720	100	9,770	2.94
09.12.70.35 24" Gate Valve	8.00 EA	62,780	6,280	3,450	5,800	780	79,100	9887.12
09.12.70.40 Valve box	8.00 EA	400	40	20	40	0	500	62.99
09.12.70.45 Excavate for pumpwell	720.00 CY	700	70	40	60	10	880	1.22
09.12.70.50 Install 24" Pumpwell	8.00 EA	27,800	2,780	1,530	2,570	350	35,020	4377.99
09.12.70.55 24" Dresser Coupling @ Pum	8.00 EA	4,990	500	270	460	60	6,290	786.31
09.12.70.60 Backfill and Compaction	1440.00 CY	2,470	250	140	230	30	3,110	2.16
09.12.70.70 Flow Meter, Purchase Cost	8.00 EA	6,030	600	330	560	80	7,590	948.94
TOTAL New Canal Landowner Takeof	8.00 EA	163,250	16,320	8,980	15,080	2,040	205,670	25709.18

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL Canals Contract Area 10			1.00 EA	2,884,400	287,090	157,900	265,270	35,810	3,630,470	3630472
09.13 Canals Contract Area 11										
09.13.01 Mob, Demob & Preparatory Work				25,000	2,500	1,380	2,310	310	31,500	
TOTAL Mob, Demob & Preparatory W				25,000	2,500	1,380	2,310	310	31,500	
09.13.09 Existing Channel Impr Oak Bra										
09.13.09.01 Chan Excav White Oak Br ID 179057.00 CY				287,340	28,730	15,800	26,550	3,580	362,020	2.02
09.13.09.02 Chan Exc Shumaker Branch I 60834.00 CY				147,530	14,750	8,110	13,630	1,840	185,870	3.06
TOTAL Existing Channel Impr Oak				434,870	43,490	23,920	40,180	5,420	547,890	
09.13.20 Pipe Lines										
09.13.20.08 Pipe Line 2511.01, (33 30457.00 LF				1,892,040	189,200	104,060	174,820	23,600	2,383,730	78.27
09.13.20.09 Pipe Line 2511.011, (12 2559.00 LF				12,540	1,250	690	1,160	160	15,800	6.17
09.13.20.10 Pipe Line 2511.02, (12 837.00 LF				8,670	870	480	800	110	10,920	13.05
09.13.20.11 Pipe Line 2511.03, (36 13288.00 LF				942,090	94,210	51,810	87,050	11,750	1,186,910	89.32
09.13.20.12 Pipe Line 2511.031, (12 6604.00 LF				36,870	3,690	2,030	3,410	460	46,450	7.03
09.13.20.13 Pipe Line 2511.04, (12 3090.00 LF				15,140	1,510	830	1,400	190	19,080	6.17
09.13.20.14 Pipe Line 2511.05, (27 5991.00 LF				150,340	15,030	8,270	13,890	1,880	189,400	31.61
09.13.20.15 Pipe Line 2511.051, (12 1082.00 LF				5,300	530	290	490	70	6,680	6.17
09.13.20.16 Pipe Line 2511.052, (18 1324.00 LF				14,450	1,450	790	1,340	180	18,210	13.75
09.13.20.17 Pipe Line 2511.053, (24 3923.00 LF				71,750	7,180	3,950	6,630	900	90,400	23.04
09.13.20.18 Pipe Line 2511.0531, (18 3911.00 LF				42,690	4,270	2,350	3,940	530	53,780	13.75
09.13.20.19 Pipe Line 2511.0532, (12 1378.00 LF				6,750	680	370	620	80	8,510	6.17
09.13.20.60 Pipe Line 2540.01, (12 2884.00 LF				14,130	1,410	780	1,310	180	17,800	6.17
09.13.20.61 Pipe Line 2540.02, (15 8410.00 LF				69,760	6,980	3,840	6,450	870	87,890	10.45
09.13.20.62 Pipe Line 2540.03, (12"X18 6331.00 LF				59,690	5,970	3,280	5,520	740	75,210	11.88
09.13.20.63 Pipe Line 2540.031, (15 8085.00 LF				67,270	6,730	3,700	6,220	840	84,750	10.48
TOTAL Pipe Lines			100154.00 LF	3,409,480	340,950	187,520	315,040	42,530	4,295,520	42.89
09.13.40 Weirs										
09.13.40.01 Weir, 2511.01			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.02 Weir, 2511.02			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.03 Weir, 2511.03			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.04 Weir, 2511.04			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.05 Weir, 2511.05			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.06 Weir, 2511.06			1.00 EA	13,500	1,350	740	1,250	170	17,010	17012.77
09.13.40.07 Weir, 2511.07			1.00 EA	9,810	980	540	910	120	12,360	12360.49
09.13.40.08 Weir, 2511.08			1.00 EA	10,070	1,010	550	930	130	12,690	12689.97
09.13.40.09 Weir, 2511.09			1.00 EA	10,070	1,010	550	930	130	12,690	12689.97

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.13.40.10	Weir, 2540.01	1.00 EA	9,210	920	510	850	110	11,600	11600.98
09.13.40.11	Weir, 2540.02	1.00 EA	9,210	920	510	850	110	11,600	11600.98
09.13.40.12	Weir, 2540.03	1.00 EA	9,210	920	510	850	110	11,600	11600.98
09.13.40.13	Weir, 2540.04	1.00 EA	9,210	920	510	850	110	11,600	11600.98
09.13.40.14	Weir, 2540.05	1.00 EA	9,320	930	510	860	120	11,740	11736.32
09.13.40.15	Weir, 2540.06	1.00 EA	9,320	930	510	860	120	11,740	11736.32
TOTAL Weirs		15.00 EA	166,440	16,640	9,150	15,380	2,080	209,690	13979.57
09.13.50 Inverted Siphons									
09.13.50.01	Siphon, 2880-01, 3 each, 4	110.00 LF	67,470	6,750	3,710	6,230	840	85,000	772.76
09.13.50.02	Siphon, 2880-02, 2 each, 5	110.00 LF	55,520	5,550	3,050	5,130	690	69,950	635.90
09.13.50.03	Siphon, 2880-03, 2 each, 5	110.00 LF	55,520	5,550	3,050	5,130	690	69,950	635.90
09.13.50.04	Siphon, 2880-04, 2 each, 4	110.00 LF	45,610	4,560	2,510	4,210	570	57,460	522.38
TOTAL Inverted Siphons		4.00 EA	224,120	22,410	12,330	20,710	2,800	282,360	70590.98
09.13.75 Existing Canal Landowner Take									
09.13.75.05	Excavation for Pipe	1147.00 CY	1,000	100	50	90	10	1,260	1.10
09.13.75.10	Place Pipe Bedding	31.00 CY	410	40	20	40	10	520	16.71
09.13.75.15	Install 24" Pipe	620.00 LF	53,340	5,330	2,930	4,930	670	67,200	108.38
09.13.75.20	24" Dresser Coupling @ Inta	31.00 EA	19,350	1,930	1,060	1,790	240	24,380	786.31
09.13.75.25	Intake Structure for 24" P	31.00 EA	38,810	3,880	2,130	3,590	480	48,890	1577.17
09.13.75.30	24" Intake Bar Screen	12865.00 LBS	30,050	3,000	1,650	2,780	370	37,850	2.94
09.13.75.35	24" Gate Valve	31.00 EA	243,020	24,300	13,370	22,450	3,030	306,170	9876.44
09.13.75.40	Valve box	31.00 EA	1,550	160	90	140	20	1,950	62.99
09.13.75.45	Excavate for pumpwell	2790.00 CY	2,700	270	150	250	30	3,400	1.22
09.13.75.50	Install 24" Pumpwell	31.00 EA	107,720	10,770	5,920	9,950	1,340	135,720	4377.99
09.13.75.55	24" Dresser Coupling @ Pum	31.00 EA	19,350	1,930	1,060	1,790	240	24,380	786.31
09.13.75.60	Backfill and Compaction	2232.00 CY	3,830	380	210	350	50	4,830	2.16
09.13.75.70	Flow Meter, Purchase Cost	31.00 EA	23,350	2,330	1,280	2,160	290	29,420	948.94
TOTAL Existing Canal Landowner T		31.00 EA	544,470	54,450	29,950	50,310	6,790	685,960	22127.77
09.13.80 Pipeline Landowner Takeoffs									
09.13.80.05	Excavation for Pipe	396.00 CY	350	30	20	30	0	430	1.10
09.13.80.10	Place Pipe Bedding	12.21 CY	160	20	10	10	0	200	16.71
09.13.80.15	Install 12" DI Pipe	330.00 LF	8,070	810	440	750	100	10,160	30.79
09.13.80.20	12" Dresser Coupling @ Inta	33.00 EA	11,340	1,130	620	1,050	140	14,290	432.92
09.13.80.25	Intake Structure for 12" P	33.00 EA	28,360	2,840	1,560	2,620	350	35,740	1082.91
09.13.80.30	12" Intake Bar Screen	8877.00 LBS	20,730	2,070	1,140	1,920	260	26,120	2.94
09.13.80.35	12" Gate Valve	33.00 EA	52,980	5,300	2,910	4,900	660	66,750	2022.83
09.13.80.40	Valve box	33.00 EA	1,650	170	90	150	20	2,080	62.99
09.13.80.45	Excavate for pumpwell	2970.00 CY	2,880	290	160	270	40	3,620	1.22
09.13.80.50	Install 24" Pumpwell	33.00 EA	114,670	11,470	6,310	10,600	1,430	144,470	4377.99

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.13.80.55	12" Dresser Coupling @ Pum		33.00 EA	11,340	1,130	620	1,050	140	14,290	432.92
09.13.80.60	Backfill and Compaction		3366.00 CY	5,780	580	320	530	70	7,280	2.16
09.13.80.70	Flow Meter, Purchase Cost		33.00 EA	24,860	2,490	1,370	2,300	310	31,310	948.94
TOTAL Pipeline Landowner Takeoff			33.00 EA	283,170	28,320	15,570	26,160	3,530	356,750	10810.70
09.13.85 24" CMP Drop Structures										
09.13.85.05	Excavate Trench		296.30 CY	350	40	20	30	0	440	1.49
09.13.85.10	Hand Trim Bottom of Trench		1600.00 SF	340	30	20	30	0	430	0.27
09.13.85.15	Install 24" CMP		8.00 EA	9,620	960	530	890	120	12,130	1515.75
09.13.85.20	Backfill & Compact 1/2 Pip		59.26 CY	130	10	10	10	0	160	2.70
09.13.85.25	Backfill & Compact to Grad		237.04 CY	110	10	10	10	0	140	0.60
TOTAL 24" CMP Drop Structures			8.00 EA	10,550	1,060	580	980	130	13,300	1662.14
TOTAL Canals Contract Area 11			1.00 EA	5,098,110	509,810	280,400	471,060	63,590	6,422,970	6422970
09.14 Canals Contract Area 12										
09.14.01	Mob, Demob & Preparatory Work			20,000	2,000	1,100	1,850	250	25,200	
TOTAL Mob, Demob & Preparatory W				20,000	2,000	1,100	1,850	250	25,200	
09.14.20 Pipe Lines										
09.14.20.01	Pipe Line 3000.01,	(12	2810.00 LF	13,770	1,380	760	1,270	170	17,350	6.17
09.14.20.02	Pipe Line 3000.04,	(12	3752.00 LF	18,380	1,840	1,010	1,700	230	23,160	6.17
09.14.20.04	Pipe Line 3000.05,	(15	20433.00 LF	162,180	16,220	8,920	14,990	2,020	204,330	10.00
09.14.20.06	Pipe Line 3000.07, (15"&24	15571.00 LF	256,620	25,660	14,110	23,710	3,200	323,300	20.76	
09.14.20.08	Pipe Line 3000.072,	(21	4472.00 LF	73,340	7,330	4,030	6,780	910	92,390	20.66
09.14.20.12	Pipe Line 3000.08,	(15	2718.00 LF	26,010	2,600	1,430	2,400	320	32,770	12.06
TOTAL Pipe Lines			6562.00 LF	550,300	55,030	30,270	50,850	6,860	693,310	105.66
09.14.25 Pumps										
09.14.25.01	Pumps P3000.01	2		83,370	6,830	3,760	6,310	850	101,110	
09.14.25.02	Pumps P3000.04	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.14.25.05	Pumps P3000.05	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.14.25.07	Pumps P3000.06	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.14.25.11	Pumps P3000.07	45		170,100	14,530	7,990	13,430	1,810	207,870	
09.14.25.12	Pumps 3000.08	7.5		83,370	6,830	3,760	6,310	850	101,110	
TOTAL Pumps			6.00 EA	653,410	53,640	29,500	49,560	6,690	792,800	132132.52

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.14.70 New Canal Landowner Takeoffs									
09.14.70.05	Excavation for Pipe	553.02 CY	480	50	30	40	10	610	1.10
09.14.70.10	Place Pipe Bedding	15.00 CY	200	20	10	20	0	250	16.71
09.14.70.15	Install 24" Pipe	300.00 LF	25,810	2,580	1,420	2,380	320	32,520	108.38
09.14.70.20	24" Dresser Coupling @ Inta	6.00 EA	3,740	370	210	350	50	4,720	786.31
09.14.70.25	Intake Structure for 24" P	6.00 EA	7,510	750	410	690	90	9,460	1577.17
09.14.70.30	24" Intake Bar Screen	2490.00 LBS	5,820	580	320	540	70	7,330	2.94
09.14.70.35	24" Gate Valve	6.00 EA	47,040	4,700	2,590	4,350	590	59,260	9876.44
09.14.70.40	Valve box	6.00 EA	300	30	20	30	0	380	62.99
09.14.70.45	Excavate for pumpwell	540.00 CY	520	50	30	50	10	660	1.22
09.14.70.50	Install 24" Pumpwell	6.00 EA	20,850	2,080	1,150	1,930	260	26,270	4377.99
09.14.70.55	24" Dresser Coupling @ Pum	6.00 EA	3,740	370	210	350	50	4,720	786.31
09.14.70.60	Backfill and Compaction	1080.00 CY	1,850	190	100	170	20	2,340	2.16
09.14.70.70	Flow Meter, Purchase Cost	6.00 EA	4,520	450	250	420	60	5,690	948.94
TOTAL New Canal Landowner Takeof		6.00 EA	122,390	12,240	6,730	11,310	1,530	154,190	25698.49
09.14.80 Pipeline Landowner Takeoffs									
09.14.80.05	Excavation for Pipe	240.00 CY	210	20	10	20	0	260	1.10
09.14.80.10	Place Pipe Bedding	7.40 CY	100	10	10	10	0	120	16.71
09.14.80.15	Install 12" DI Pipe	200.00 LF	4,890	490	270	450	60	6,160	30.79
09.14.80.20	12" Dresser Coupling @ Inta	20.00 EA	6,870	690	380	640	90	8,660	432.92
09.14.80.25	Intake Structure for 12" P	20.00 EA	17,190	1,720	950	1,590	210	21,660	1082.91
09.14.80.30	12" Intake Bar Screen	5380.00 LBS	12,570	1,260	690	1,160	160	15,830	2.94
09.14.80.35	12" Gate Valve	20.00 EA	32,110	3,210	1,770	2,970	400	40,460	2022.83
09.14.80.40	Valve box	20.00 EA	1,000	100	60	90	10	1,260	62.99
09.14.80.45	Excavate for pumpwell	1800.00 CY	1,740	170	100	160	20	2,200	1.22
09.14.80.50	Install 24" Pumpwell	20.00 EA	69,500	6,950	3,820	6,420	870	87,560	4377.99
09.14.80.55	12" Dresser Coupling @ Pum	20.00 EA	6,870	690	380	640	90	8,660	432.92
09.14.80.60	Backfill and Compaction	2040.00 CY	3,500	350	190	320	40	4,410	2.16
09.14.80.70	Flow Meter, Purchase Cost	20.00 EA	15,060	1,510	830	1,390	190	18,980	948.94
TOTAL Pipeline Landowner Takeoff		20.00 EA	171,620	17,160	9,440	15,860	2,140	216,210	10810.70
TOTAL Canals Contract Area 12		1.00 EA	1,517,710	140,070	77,040	129,420	17,470	1,881,710	1881706
09.15 Canals Contract Area 13									
09.15.01	Mob, Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
TOTAL Mob, Demob & Preparatory W			25,000	2,500	1,380	2,310	310	31,500	
09.15.20 Pipe Lines									
09.15.20.01	Pipe Line 3000.02,	(12 798.00 LF	3,910	390	220	360	50	4,930	6.17
09.15.20.02	Pipe Line 3000.03,	(12 16380.00 LF	93,850	9,380	5,160	8,670	1,170	118,240	7.22

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.15.20.09	Pipe Line 3000.06,	(15	6730.00 LF		56,850	5,690	3,130	5,250	710	71,620	10.64
TOTAL Pipe Lines				67102.00 LF	154,610	15,460	8,500	14,290	1,930	194,790	2.90
09.15.25 Pumps											
09.15.25.01	Pumps P3000.02	0.75			83,370	6,830	3,760	6,310	850	101,110	
09.15.25.02	Pumps P3000.03	0.75			83,370	6,830	3,760	6,310	850	101,110	
TOTAL Pumps				2.00 EA	166,740	13,660	7,510	12,620	1,700	202,230	101114.58
09.15.70 New Canal Landowner Takeoffs											
09.15.70.05	Excavation for Pipe		460.85 CY		400	40	20	40	10	510	1.10
09.15.70.10	Place Pipe Bedding		12.50 CY		170	20	10	20	0	210	16.71
09.15.70.15	Install 24" Pipe		250.00 LF		21,510	2,150	1,180	1,990	270	27,100	108.38
09.15.70.20	24" Dresser Coupling @ Inta		5.00 EA		3,120	310	170	290	40	3,930	786.31
09.15.70.25	Intake Structure for 24" P		5.00 EA		6,260	630	340	580	80	7,890	1577.17
09.15.70.30	24" Intake Bar Screen		2075.00 LBS		4,850	480	270	450	60	6,110	2.94
09.15.70.35	24" Gate Valve		5.00 EA		39,200	3,920	2,160	3,620	490	49,380	9876.44
09.15.70.40	Valve box		5.00 EA		250	30	10	20	0	310	62.99
09.15.70.45	Excavate for pumpwell		450.00 CY		440	40	20	40	10	550	1.22
09.15.70.50	Install 24" Pumpwell		5.00 EA		17,370	1,740	960	1,610	220	21,890	4377.99
09.15.70.55	24" Dresser Coupling @ Pum		5.00 EA		3,120	310	170	290	40	3,930	786.31
09.15.70.60	Backfill and Compaction		900.00 CY		1,540	150	80	140	20	1,950	2.16
09.15.70.70	Flow Meter, Purchase Cost		5.00 EA		3,770	380	210	350	50	4,740	948.94
TOTAL New Canal Landowner Takeof				5.00 EA	101,990	10,200	5,610	9,420	1,270	128,490	25698.49
09.15.80 Pipeline Landowner Takeoffs											
09.15.80.05	Excavation for Pipe		96.00 CY		80	10	0	10	0	110	1.10
09.15.80.10	Place Pipe Bedding		2.96 CY		40	0	0	0	0	50	16.71
09.15.80.15	Install 12" DI Pipe		80.00 LF		1,960	200	110	180	20	2,460	30.79
09.15.80.20	12" Dresser Coupling @ Inta		8.00 EA		2,750	270	150	250	30	3,460	432.92
09.15.80.25	Intake Structure for 12" P		8.00 EA		6,880	690	380	640	90	8,660	1082.91
09.15.80.30	12" Intake Bar Screen		2152.00 LBS		5,030	500	280	460	60	6,330	2.94
09.15.80.35	12" Gate Valve		8.00 EA		12,840	1,280	710	1,190	160	16,180	2022.83
09.15.80.40	Valve box		8.00 EA		400	40	20	40	0	500	62.99
09.15.80.45	Excavate for pumpwell		720.00 CY		700	70	40	60	10	880	1.22
09.15.80.50	Install 24" Pumpwell		8.00 EA		27,800	2,780	1,530	2,570	350	35,020	4377.99
09.15.80.55	12" Dresser Coupling @ Pum		8.00 EA		2,750	270	150	250	30	3,460	432.92
09.15.80.60	Backfill and Compaction		816.00 CY		1,400	140	80	130	20	1,760	2.16
09.15.80.70	Flow Meter, Purchase Cost		8.00 EA		6,030	600	330	560	80	7,590	948.94
TOTAL Pipeline Landowner Takeoff				8.00 EA	68,650	6,860	3,780	6,340	860	86,490	10810.70
TOTAL Canals Contract Area 13				1.00 EA	516,980	48,680	26,770	44,980	6,070	643,490	643490.04

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.16 Canals Contract Area 14									
09.16.01	Mob. Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
	TOTAL Mob. Demob & Preparatory W		20,000	2,000	1,100	1,850	250	25,200	
09.16.30 Check Structures									
09.16.30.02	Check Structure C-4000R	1.00 EA	731,150	73,120	40,210	67,560	9,120	921,160	921162.39
	TOTAL Check Structures	1.00 EA	731,150	73,120	40,210	67,560	9,120	921,160	921162.39
09.16.70 New Canal Landowner Takeoffs									
09.16.70.05	Excavation for Pipe	92.17 CY	80	10	0	10	0	100	1.10
09.16.70.10	Place Pipe Bedding	2.50 CY	30	0	0	0	0	40	16.71
09.16.70.15	Install 24" Pipe	50.00 LF	4,300	430	240	400	50	5,420	108.38
09.16.70.20	24" Dresser Coupling @ Inta	1.00 EA	620	60	30	60	10	790	786.31
09.16.70.25	Intake Structure for 24" P	1.00 EA	1,250	130	70	120	20	1,580	1577.17
09.16.70.30	24" Intake Bar Screen	415.00 LBS	970	100	50	90	10	1,220	2.94
09.16.70.35	24" Gate Valve	1.00 EA	7,840	780	430	720	100	9,880	9876.44
09.16.70.40	Valve box	1.00 EA	50	10	0	0	0	60	62.99
09.16.70.45	Excavate for pumpwell	90.00 CY	90	10	0	10	0	110	1.22
09.16.70.50	Install 24" Pumpwell	1.00 EA	3,470	350	190	320	40	4,380	4377.99
09.16.70.55	24" Dresser Coupling @ Pum	1.00 EA	620	60	30	60	10	790	786.31
09.16.70.60	Backfill and Compaction	180.00 CY	310	30	20	30	0	390	2.16
09.16.70.70	Flow Meter, Purchase Cost	1.00 EA	750	80	40	70	10	950	948.94
	TOTAL New Canal Landowner Takeof	1.00 EA	20,400	2,040	1,120	1,880	250	25,700	25698.50
	TOTAL Canals Contract Area 14	1.00 EA	771,550	77,160	42,440	71,290	9,620	972,060	972058.37
09.17 Canals Contract Area 15									
09.17.01	Mob. Demob & Preparatory Work		20,000	2,000	1,100	1,850	250	25,200	
	TOTAL Mob. Demob & Preparatory W		20,000	2,000	1,100	1,850	250	25,200	
09.17.10 Canal Excavation									
09.17.10.10	Canal Excavation ID-4000	104400.00 CY	127,630	12,760	7,020	11,790	1,590	160,800	1.54
09.17.10.20	Canal Excavation ID-4100	30893.00 CY	22,840	2,280	1,260	2,110	280	28,780	0.93
	TOTAL Canal Excavation	758400.00 CY	150,470	15,050	8,280	13,900	1,880	189,580	0.25
09.17.50 Inverted Siphons									

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.17.50.01	Siphon, 4000-01, 3 each, 4	173.00 LF	91,270	9,130	5,020	8,430	1,140	114,990	664.70
09.17.50.02	Siphon, 4000-02, 2 each, 5	217.00 LF	88,140	8,810	4,850	8,140	1,100	111,050	511.75
09.17.50.03	Siphon, 4000-03, 2 each, 5	208.00 LF	85,400	8,540	4,700	7,890	1,070	107,590	517.27
TOTAL Inverted Siphons		3.00 EA	264,820	26,480	14,560	24,470	3,300	333,630	111211.37
09.17.60 Gatewell Turnout Structures									
09.17.60.10	T-4110, Can/Can 54" Db1 Ga	1.00 EA	174,780	16,130	8,870	14,900	2,010	216,690	216688.89
TOTAL Gatewell Turnout Structure		1.00 EA	174,780	16,130	8,870	14,900	2,010	216,690	216688.89
09.17.70 New Canal Landowner Takeoffs									
09.17.70.05	Excavation for Pipe	460.85 CY	400	40	20	40	10	510	1.10
09.17.70.10	Place Pipe Bedding	12.50 CY	170	20	10	20	0	210	16.71
09.17.70.15	Install 24" Pipe	250.00 LF	21,510	2,150	1,180	1,990	270	27,100	108.38
09.17.70.20	24" Dresser Coupling @ Inta	5.00 EA	3,120	310	170	290	40	3,930	786.31
09.17.70.25	Intake Structure for 24" P	5.00 EA	6,260	630	340	580	80	7,890	1577.17
09.17.70.30	24" Intake Bar Screen	2075.00 LBS	4,850	480	270	450	60	6,110	2.94
09.17.70.35	24" Gate Valve	5.00 EA	39,200	3,920	2,160	3,620	490	49,380	9876.44
09.17.70.40	Valve box	5.00 EA	250	30	10	20	0	310	62.99
09.17.70.45	Excavate for pumpwell	450.00 CY	440	40	20	40	10	550	1.22
09.17.70.50	Install 24" Pumpwell	5.00 EA	17,370	1,740	960	1,610	220	21,890	4377.99
09.17.70.55	24" Dresser Coupling @ Pum	5.00 EA	3,120	310	170	290	40	3,930	786.31
09.17.70.60	Backfill and Compaction	900.00 CY	1,540	150	80	140	20	1,950	2.16
09.17.70.70	Flow Meter, Purchase Cost	5.00 EA	3,770	380	210	350	50	4,740	948.94
TOTAL New Canal Landowner Takeof		5.00 EA	101,990	10,200	5,610	9,420	1,270	128,490	25698.49
TOTAL Canals Contract Area 15		1.00 EA	712,060	69,850	38,420	64,540	8,710	893,590	893588.30
09.18 Canals Contract Area 16									
09.18.01	Mob, Demob & Preparatory Work		25,000	2,500	1,380	2,310	310	31,500	
TOTAL Mob, Demob & Preparatory W			25,000	2,500	1,380	2,310	310	31,500	
09.18.20 Pipe Lines									
09.18.20.01	Pipe Line 4000.02, (27	20548.00 LF	525,570	52,560	28,910	48,560	6,560	662,150	32.22
09.18.20.04	Pipe Line 4000.03, (30	10496.00 LF	541,540	54,150	29,780	50,040	6,760	682,270	65.00
09.18.20.05	Pipe Line 4000.031, (21	621.00 LF	9,120	910	500	840	110	11,490	18.50
09.18.20.06	Pipe Line 4000.032, (21	3273.00 LF	48,050	4,810	2,640	4,440	600	60,540	18.50
09.18.20.07	Pipe Line 4200.01, (15" & 30	10036.00 LF	225,980	22,600	12,430	20,880	2,820	284,710	28.37
09.18.20.08	Pipe Line 4200.011, (21	18397.00 LF	283,140	28,310	15,570	26,160	3,530	356,720	19.39

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.18.20.09	Pipe Line C4200.	(30	10794.00 LF	535,450	53,540	29,450	49,480	6,680	674,600	62.50
TOTAL Pipe Lines			74165.00 LF	2,168,840	216,880	119,290	200,400	27,050	2,732,470	36.84
09.18.25 Pumps										
09.18.25.01	Pumps P4000.02	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.18.25.04	Pumps P4000.03	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.18.25.07	Pumps P4200.01	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.18.25.09	Pumps P4200	15		116,600	9,310	5,120	8,600	1,160	140,790	
TOTAL Pumps			4.00 EA	466,390	37,240	20,480	34,410	4,640	563,160	140789.70
09.18.75 Existing Canal Landowner Take										
09.18.75.05	Excavation for Pipe		148.00 CY	130	10	10	10	0	160	1.10
09.18.75.10	Place Pipe Bedding		4.00 CY	50	10	0	0	0	70	16.71
09.18.75.15	Install 24" Pipe		80.00 LF	6,880	690	380	640	90	8,670	108.38
09.18.75.20	24" Dresser Coupling @ Inta		4.00 EA	2,500	250	140	230	30	3,150	786.31
09.18.75.25	Intake Structure for 24" P		4.00 EA	5,010	500	280	460	60	6,310	1577.17
09.18.75.30	24" Intake Bar Screen		1660.00 LBS	3,880	390	210	360	50	4,880	2.94
09.18.75.35	24" Gate Valve		4.00 EA	31,360	3,140	1,720	2,900	390	39,510	9876.44
09.18.75.40	Valve box		4.00 EA	200	20	10	20	0	250	62.99
09.18.75.45	Excavate for pumpwell		360.00 CY	350	30	20	30	0	440	1.22
09.18.75.50	Install 24" Pumpwell		4.00 EA	13,900	1,390	760	1,280	170	17,510	4377.99
09.18.75.55	24" Dresser Coupling @ Pum		4.00 EA	2,500	250	140	230	30	3,150	786.31
09.18.75.60	Backfill and Compaction		288.00 CY	490	50	30	50	10	620	2.16
09.18.75.70	Flow Meter, Purchase Cost		4.00 EA	3,010	300	170	280	40	3,800	948.94
TOTAL Existing Canal Landowner T			4.00 EA	70,250	7,030	3,860	6,490	880	88,510	22127.78
09.18.80 Pipeline Landowner Takeoffs										
09.18.80.05	Excavation for Pipe		228.00 CY	200	20	10	20	0	250	1.10
09.18.80.10	Place Pipe Bedding		7.03 CY	90	10	10	10	0	120	16.71
09.18.80.15	Install 12" DI Pipe		190.00 LF	4,640	460	260	430	60	5,850	30.79
09.18.80.20	12" Dresser Coupling @ Inta		19.00 EA	6,530	650	360	600	80	8,230	432.92
09.18.80.25	Intake Structure for 12" P		19.00 EA	16,330	1,630	900	1,510	200	20,580	1082.91
09.18.80.30	12" Intake Bar Screen		5111.00 LBS	11,940	1,190	660	1,100	150	15,040	2.94
09.18.80.35	12" Gate Valve		19.00 EA	30,510	3,050	1,680	2,820	380	38,430	2022.83
09.18.80.40	Valve box		19.00 EA	950	100	50	90	10	1,200	62.99
09.18.80.45	Excavate for pumpwell		1710.00 CY	1,660	170	90	150	20	2,090	1.22
09.18.80.50	Install 24" Pumpwell		19.00 EA	66,020	6,600	3,630	6,100	820	83,180	4377.99
09.18.80.55	12" Dresser Coupling @ Pum		19.00 EA	6,530	650	360	600	80	8,230	432.92
09.18.80.60	Backfill and Compaction		1938.00 CY	3,330	330	180	310	40	4,190	2.16
09.18.80.70	Flow Meter, Purchase Cost		19.00 EA	14,310	1,430	790	1,320	180	18,030	948.94

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL Pipeline Landowner Takeoff			19.00 EA	163,030	16,300	8,970	15,060	2,030	205,400	10810.70
TOTAL Canals Contract Area 16			1.00 EA	2,893,520	279,950	153,970	258,670	34,920	3,621,040	3621040
09.19 Canals Contract Area 17										
09.19.01 Mob, Demob & Preparatory Work				50,000	5,000	2,750	4,620	620	62,990	
TOTAL Mob, Demob & Preparatory W				50,000	5,000	2,750	4,620	620	62,990	
09.19.08 Canal Excavation										
09.19.08.01	Canal Excavation ID 4111	540600.00 CY		605,060	60,510	33,280	55,910	7,550	762,300	1.41
09.19.08.02	Canal Excavation ID 4112	202300.00 CY		358,360	35,840	19,710	33,110	4,470	451,490	2.23
09.19.08.03	Canal Excavation ID 4113	15500.00 CY		17,480	1,750	960	1,610	220	22,020	1.42
TOTAL Canal Excavation			758400.00 CY	980,900	98,090	53,950	90,630	12,240	1,235,800	1.63
09.19.20 Pipe Lines										
09.19.20.01	Pipe Line 4000.01,	(30 17102.00 LF		880,560	88,060	48,430	81,360	10,980	1,109,390	64.87
09.19.20.02	Pipe Line 4100.01,	(18 6710.00 LF		84,790	8,480	4,660	7,830	1,060	106,830	15.92
09.19.20.03	Pipe Line 4100.011,	(12 5419.00 LF		31,060	3,110	1,710	2,870	390	39,130	7.22
09.19.20.04	Pipe Line 4100.012,	(12 3090.00 LF		19,650	1,960	1,080	1,820	250	24,760	8.01
09.19.20.05	Pipe Line 4100.013,	(12 6575.00 LF		41,290	4,130	2,270	3,820	520	52,030	7.91
09.19.20.06	Pipe Line 4110.01, (12"&21	345.00 LF		1,790	180	100	170	20	2,250	6.53
09.19.20.07	Pipe Line 4110.011, (12"&1	12890.00 LF		81,940	8,190	4,510	7,570	1,020	103,230	8.01
09.19.20.08	Pipe Line 4110.0111,	(12 1951.00 LF		9,560	960	530	880	120	12,040	6.17
09.19.20.09	Pipe Line 4110.0112,	(12 2664.00 LF		13,050	1,310	720	1,210	160	16,450	6.17
09.19.20.10	Pipe Line 4110.02, (18"&21	17798.00 LF		215,390	21,540	11,850	19,900	2,690	271,360	15.25
09.19.20.11	Pipe Line 4110.021,	(12 2082.00 LF		10,200	1,020	560	940	130	12,850	6.17
09.19.20.12	Pipe Line 4111.01,	(15 13431.00 LF		113,480	11,350	6,240	10,490	1,420	142,970	10.64
09.19.20.13	Pipe Line 4111.02,	(12 2497.00 LF		12,240	1,220	670	1,130	150	15,410	6.17
09.19.20.16	Pipe Line 4111.05,	(12 6531.00 LF		36,510	3,650	2,010	3,370	460	46,000	7.04
09.19.20.17	Pipe Line 4111.06,	(12 3165.00 LF		15,510	1,550	850	1,430	190	19,540	6.17
09.19.20.18	Pipe Line 4111.061,	(12 3649.00 LF		26,900	2,690	1,480	2,490	340	33,890	9.29
09.19.20.19	Pipe Line 4111.07,	(12 6329.00 LF		40,030	4,000	2,200	3,700	500	50,430	7.97
09.19.20.20	Pipe Line 4111.08,	(12 5028.00 LF		24,640	2,460	1,360	2,280	310	31,040	6.17
09.19.20.21	Pipe Line 4111.09,	(36 3892.00 LF		293,370	29,340	16,140	27,110	3,660	369,610	94.97
09.19.20.22	Pipe Line 4111.091(12"21"2	17454.00 LF		298,880	29,890	16,440	27,620	3,730	376,560	21.57
09.19.20.23	Pipe Line 4111.0911,	(21 1491.00 LF		21,890	2,190	1,200	2,020	270	27,580	18.50
09.19.20.24	Pipe Line 4111.0912,	(15 2654.00 LF		20,400	2,040	1,120	1,890	250	25,700	9.68
09.19.20.25	Pipe Line 4111.092,	(21 12732.00 LF		194,600	19,460	10,700	17,980	2,430	245,170	19.26
09.19.20.26	Pipe Line 4112.01,	(12 8013.00 LF		48,340	4,830	2,660	4,470	600	60,900	7.60
09.19.20.27	Pipe Line 4112.02,	(12 8820.00 LF		52,230	5,220	2,870	4,830	650	65,810	7.46
09.19.20.28	Pipe Line 4112.03,	(18 13233.00 LF		168,570	16,860	9,270	15,580	2,100	212,370	16.05
09.19.20.29	Pipe Line 4112.04,	(12 2839.00 LF		18,420	1,840	1,010	1,700	230	23,210	8.17
09.19.20.30	Pipe Line 4112.05, (21"&36	18433.00 LF		1,209,720	120,970	66,530	111,780	15,090	1,524,090	82.68

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

Mon 28 Apr 2003
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U.S. Army Corps of Engineers
PROJECT BM0428: Bayou Meto Feas.Est.28 Apr.2003
Bayou Meto Feasibility Estimate APRIL 28,2003
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			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.19.20.31	Pipe Line 4112.051,	(24	5260.00 LF	103,180	10,320	5,680	9,530	1,290	130,000	24.71
09.19.20.33	Pipe Line 4112.06, (12"x18		13560.00 LF	138,710	13,870	7,630	12,820	1,730	174,750	12.89
09.19.20.34	Pipe Line 4112.061,	(12	3902.00 LF	23,630	2,360	1,300	2,180	290	29,770	7.63
09.19.20.35	Pipe Line 4112.062,	(12	665.00 LF	7,830	780	430	720	100	9,860	14.83
09.19.20.37	Pipe Line 4112.063,	(12	4597.00 LF	22,530	2,250	1,240	2,080	280	28,380	6.17
09.19.20.38	Pipe Line 4112.07, (30"x36		11315.00 LF	734,280	73,430	40,390	67,850	9,160	925,100	81.76
09.19.20.39	Pipe Line 4112.071,	(18	924.00 LF	16,880	1,690	930	1,560	210	21,270	23.02
09.19.20.40	Pipe Line 4112.072,	(18	2446.00 LF	33,500	3,350	1,840	3,100	420	42,200	17.25
09.19.20.41	Pipe Line 4113.01,	(36	15895.00 LF	1,168,510	116,850	64,270	107,970	14,580	1,472,180	92.62
09.19.20.42	Pipe Line 4113.011,	(18	3967.00 LF	49,080	4,910	2,700	4,530	610	61,830	15.59
09.19.20.43	Pipe Line 4113.012,	(24	2614.00 LF	54,790	5,480	3,010	5,060	680	69,030	26.41
09.19.20.44	Pipe Line 4113.013, (18"x2		7627.00 LF	142,880	14,290	7,860	13,200	1,780	180,010	23.60
09.19.20.45	Pipe Line 4113.0131,	(12	1299.00 LF	6,370	640	350	590	80	8,020	6.17
09.19.20.46	Pipe Line 4113.0132,	(12	10599.00 LF	56,500	5,650	3,110	5,220	700	71,190	6.72
TOTAL Pipe Lines			291887.00 LF	6,543,660	654,370	359,900	604,630	81,630	8,244,190	28.24

09.19.25 Pumps

09.19.25.01	Pumps	P4000.01	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.19.25.02	Pumps	P4100.01	7.5		95,950	8,090	4,450	7,470	1,010	116,970	
09.19.25.04	Relift	Pumps P4111	10		114,410	9,160	5,040	8,460	1,140	138,210	
09.19.25.05	Relift	Pumps 4112	40		180,660	15,600	8,580	14,410	1,950	221,210	
09.19.25.06	Pumps	P4110.01	10		107,660	8,480	4,660	7,840	1,060	129,700	
09.19.25.10	Pumps	P4110.02	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.19.25.12	Pumps	P4111.01	3		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.13	Pumps	P4111.02	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.16	Pumps	P4111.05	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.17	Pumps	P4111.06	1		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.19	Pumps	P4111.07	3		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.20	Pumps	P4111.08	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.21	Pumps	P4111.09	60		171,970	14,720	8,100	13,600	1,840	210,220	
09.19.25.26	Pumps	P4112.01	5		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.27	Pumps	P4112.02	0.75		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.28	Pumps	P4112.03	15		116,600	9,310	5,120	8,600	1,160	140,790	
09.19.25.29	Pumps	P4112.04	3		83,370	6,830	3,760	6,310	850	101,110	
09.19.25.30	Pumps	P4112.05	20		116,600	9,310	5,120	8,600	1,160	140,790	
09.19.25.38	Pumps	P4112.07	25		122,700	9,870	5,430	9,120	1,230	148,360	
09.19.25.41	Pumps	P4113.01	85		198,410	17,340	9,540	16,030	2,160	243,490	
TOTAL Pumps				20.00 EA	2,208,480	181,960	100,080	168,130	22,700	2,681,340	134067.08

09.19.30 Check Structures

09.19.30.01	Check Structure C-4111.1	1.00 EA	706,380	70,640	38,850	65,270	8,810	889,950	889950.91
TOTAL Check Structures			1.00 EA	706,380	70,640	38,850	65,270	8,810	889,950 889950.91

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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Bayou Meto Feasibility Estimate APRIL 28,2003
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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.19.40 Weirs									
09.19.40.01	Weir, 4110.01	1.00 EA	15,480	1,550	850	1,430	190	19,510	19507.78
09.19.40.03	Weir, 4110.02	1.00 EA	14,270	1,430	780	1,320	180	17,980	17975.37
TOTAL Weirs		2.00 EA	29,750	2,980	1,640	2,750	370	37,480	18741.58
09.19.50 Inverted Siphons									
09.19.50.01	Siphon, 4000-01, 3 each, 4	126.00 LF	73,520	7,350	4,040	6,790	920	92,620	735.08
09.19.50.02	Siphon, 4111-02, 2 each, 4	183.00 LF	54,510	5,450	3,000	5,040	680	68,680	375.28
09.19.50.03	Siphon, 4111-03, 2 each, 5	149.00 LF	67,410	6,740	3,710	6,230	840	84,930	570.00
09.19.50.04	Siphon, 4112-01, 1 each, 5	126.00 LF	31,280	3,130	1,720	2,890	390	39,410	312.78
09.19.50.05	Siphon, 4112-02, 1 each, 8	260.00 LF	112,510	11,250	6,190	10,400	1,400	141,750	545.18
09.19.50.06	Siphon, 4112-03, 3 each, 5	126.00 LF	89,520	8,950	4,920	8,270	1,120	112,780	895.07
09.19.50.07	Siphon, 4112-04, 2 each, 3	240.00 LF	49,630	4,960	2,730	4,590	620	62,530	260.53
09.19.50.08	Siphon, 4112-05, 2 each, 2	126.00 LF	16,670	1,670	920	1,540	210	21,000	166.70
09.19.50.09	Siphon, 4112-06, 2 each, 9	345.00 LF	310,900	31,090	17,100	28,730	3,880	391,690	1135.34
09.19.50.10	Siphon, 4112-07, 3 each, 9	224.00 LF	333,170	33,320	18,320	30,790	4,160	419,760	1873.92
09.19.50.11	Siphon, 4112-08, 3 each, 9	336.00 LF	453,680	45,370	24,950	41,920	5,660	571,580	1701.12
09.19.50.12	Siphon, 4112-09, 4 each, 9	379.00 LF	753,280	75,330	41,430	69,600	9,400	949,030	2504.04
09.19.50.13	Siphon, 4113-01, 2 each, 9	170.00 LF	210,810	21,080	11,590	19,480	2,630	265,600	1562.34
TOTAL Inverted Siphons		13.00 EA	2,556,880	255,690	140,630	236,260	31,890	3,221,350	247796.01
09.19.60 Gatewell Turnout Structures									
09.19.60.11	T-4113, C to C, 48" Dbl Ga	1.00 EA	210,510	19,700	10,830	18,200	2,460	261,700	261697.79
TOTAL Gatewell Turnout Structure		1.00 EA	210,510	19,700	10,830	18,200	2,460	261,700	261697.79
09.19.65 Existing Channel Improvement									
09.19.65.01	Chan Excav Rickey Branch I 283513.00 CY		381,510	38,150	20,980	35,250	4,760	480,650	1.70
TOTAL Existing Channel Improveme			381,510	38,150	20,980	35,250	4,760	480,650	
09.19.70 New Canal Landowner Takeoffs									
09.19.70.05	Excavation for Pipe	3502.46 CY	3,050	310	170	280	40	3,850	1.10
09.19.70.10	Place Pipe Bedding	95.00 CY	1,260	130	70	120	20	1,590	16.71
09.19.70.15	Install 24" Pipe	1900.00 LF	163,450	16,350	8,990	15,100	2,040	205,930	108.38
09.19.70.20	24" Dresser Coupling @ Inta	38.00 EA	23,720	2,370	1,300	2,190	300	29,880	786.31
09.19.70.25	Intake Structure for 24" P	38.00 EA	47,570	4,760	2,620	4,400	590	59,930	1577.17
09.19.70.30	24" Intake Bar Screen	15770.00 LBS	36,830	3,680	2,030	3,400	460	46,400	2.94
09.19.70.35	24" Gate Valve	38.00 EA	297,890	29,790	16,380	27,530	3,720	375,300	9876.44
09.19.70.40	Valve box	38.00 EA	1,900	190	100	180	20	2,390	62.99

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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Bayou Meto Feasibility Estimate APRIL 28,2003
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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
09.19.70.45	Excavate for pumpwell	3420.00 CY	3,310	330	180	310	4,170	1.22
09.19.70.50	Install 24" Pumpwell	38.00 EA	132,050	13,200	7,260	12,200	166,360	4377.99
09.19.70.55	24" Dresser Coupling @ Pum	38.00 EA	23,720	2,370	1,300	2,190	29,880	786.31
09.19.70.60	Backfill and Compaction	6840.00 CY	11,740	1,170	650	1,080	14,790	2.16
09.19.70.70	Flow Meter, Purchase Cost	38.00 EA	28,620	2,860	1,570	2,640	36,060	948.94
TOTAL New Canal Landowner Takeof		38.00 EA	775,110	77,510	42,630	71,620	976,540	25698.49

09.19.75 Existing Canal Landowner Take

09.19.75.05	Excavation for Pipe	333.00 CY	290	30	20	30	370	1.10
09.19.75.10	Place Pipe Bedding	9.00 CY	120	10	10	10	150	16.71
09.19.75.15	Install 24" Pipe	180.00 LF	15,480	1,550	850	1,430	19,510	108.38
09.19.75.20	24" Dresser Coupling @ Inta	9.00 EA	5,620	560	310	520	7,080	786.31
09.19.75.25	Intake Structure for 24" P	9.00 EA	11,270	1,130	620	1,040	14,190	1577.17
09.19.75.30	24" Intake Bar Screen	3735.00 LBS	8,720	870	480	810	10,990	2.94
09.19.75.35	24" Gate Valve	9.00 EA	70,550	7,060	3,880	6,520	88,890	9876.44
09.19.75.40	Valve box	9.00 EA	450	50	20	40	570	62.99
09.19.75.45	Excavate for pumpwell	810.00 CY	780	80	40	70	990	1.22
09.19.75.50	Install 24" Pumpwell	9.00 EA	31,270	3,130	1,720	2,890	39,400	4377.99
09.19.75.55	24" Dresser Coupling @ Pum	9.00 EA	5,620	560	310	520	7,080	786.31
09.19.75.60	Backfill and Compaction	648.00 CY	1,110	110	60	100	1,400	2.16
09.19.75.70	Flow Meter, Purchase Cost	9.00 EA	6,780	680	370	630	8,540	948.94
TOTAL Existing Canal Landowner T		9.00 EA	158,070	15,810	8,690	14,610	199,150	22127.77

09.19.80 Pipeline Landowner Takeoffs

09.19.80.05	Excavation for Pipe	888.00 CY	770	80	40	70	980	1.10
09.19.80.10	Place Pipe Bedding	27.38 CY	360	40	20	30	460	16.71
09.19.80.15	Install 12" DI Pipe	740.00 LF	18,090	1,810	990	1,670	22,790	30.79
09.19.80.20	12" Dresser Coupling @ Inta	74.00 EA	25,430	2,540	1,400	2,350	32,040	432.92
09.19.80.25	Intake Structure for 12" P	74.00 EA	63,610	6,360	3,500	5,880	80,140	1082.91
09.19.80.30	12" Intake Bar Screen	19906.00 LBS	46,490	4,650	2,560	4,300	58,570	2.94
09.19.80.35	12" Gate Valve	74.00 EA	118,810	11,880	6,530	10,980	149,690	2022.83
09.19.80.40	Valve box	74.00 EA	3,700	370	200	340	4,660	62.99
09.19.80.45	Excavate for pumpwell	6660.00 CY	6,450	640	350	600	8,130	1.22
09.19.80.50	Install 24" Pumpwell	74.00 EA	257,150	25,710	14,140	23,760	323,970	4377.99
09.19.80.55	12" Dresser Coupling @ Pum	74.00 EA	25,430	2,540	1,400	2,350	32,040	432.92
09.19.80.60	Backfill and Compaction	7548.00 CY	12,960	1,300	710	1,200	16,320	2.16
09.19.80.70	Flow Meter, Purchase Cost	74.00 EA	55,740	5,570	3,070	5,150	70,220	948.94
TOTAL Pipeline Landowner Takeoff		74.00 EA	634,980	63,500	34,920	58,670	799,990	10810.70

09.19.85 24" CMP Drop Structures

09.19.85.05	Excavate Trench	370.37 CY	440	40	20	40	550	1.49
09.19.85.10	Hand Trim Bottom of Trench	2000.00 SF	420	40	20	40	530	0.27

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09.19.85.15	Install 24" CMP	10.00 EA	12,030	1,200	660	1,110	150	15,160	1515.75
09.19.85.20	Backfill & Compact 1/2 Pip	74.07 CY	160	20	10	10	0	200	2.70
09.19.85.25	Backfill & Compact to Grad	296.30 CY	140	10	10	10	0	180	0.60
TOTAL 24" CMP Drop Structures		10.00 EA	13,190	1,320	730	1,220	160	16,620	1662.14
TOTAL Canals Contract Area 17		1.00 EA	15,249,410	1,484,700	816,590	1,371,860	185,200	19,107,760	19107764
09.80	On Farm Cost		65,000,000	0	0	0	0	65,000,000	
TOTAL Channels and Canals		1.00 EA	191,457,610	12220260	6,721,140	11291520	1,524,360	223,214,890	223214888
13 Pumping Plants									
13.05 Pump.Plant-P1000R-1750cfsCA01 P1									
13.05.01 Mob, Demob & Preparatory Work									
13.05.01.05	Mobilization and Demobiliz		50,000	5,000	2,750	4,620	620	62,990	
13.05.01.11	Enviromental Protection		4,300	430	240	400	50	5,420	
TOTAL Mob, Demob & Preparatory W			54,300	5,430	2,990	5,020	680	68,410	
13.05.02 Site Work									
13.05.02.05	Walk/Roads/Parking Paving		221,000	22,100	12,160	20,420	2,760	278,430	
13.05.02.10	Riprap, Filter Stone & Fab		63,950	6,400	3,520	5,910	800	80,570	
13.05.02.15	Storm Drainage		27,000	2,700	1,490	2,490	340	34,020	
13.05.02.20	Staff Gages		2,500	250	140	230	30	3,150	
13.05.02.25	Piezometers		5,500	550	300	510	70	6,930	
13.05.02.30	8' Chain Link Fence		35,000	3,500	1,930	3,230	440	44,100	
13.05.02.35	Landscaping		21,000	2,100	1,160	1,940	260	26,460	
13.05.02.60	Sheet Pile, Pumphouse Subs	1000.00 SF	14,450	1,440	790	1,340	180	18,200	18.20
TOTAL Site Work			390,400	39,040	21,470	36,070	4,870	491,860	
13.05.03 Care and Diversion of Water									
13.05.03.05	Site Work (Cofferdam)		174,000	17,400	9,570	16,080	2,170	219,220	
13.05.03.10	Dewatering		641,000	64,100	35,260	59,230	8,000	807,580	
TOTAL Care and Diversion of Wate			815,000	81,500	44,830	75,310	10,170	1,026,800	
13.05.05 Gated Control Structure (Conc									
13.05.05.05	Reinforced Concrete	1220.00 CY	300,750	30,070	16,540	27,790	3,750	378,900	310.58

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL Gated Control Structure (C		300,750	30,070	16,540	27,790	3,750	378,900	
13.05.06 Outlet Work (Concrete)								
13.05.06.05 Reinforced Concrete	1220.00 CY	109,530	10,950	6,020	10,120	1,370	137,990	113.11
TOTAL Outlet Work (Concrete)		109,530	10,950	6,020	10,120	1,370	137,990	
13.05.10 Earthwork for Structures								
13.05.10.02 Site Work		422,880	42,290	23,260	39,070	5,270	532,770	
TOTAL Earthwork for Structures		422,880	42,290	23,260	39,070	5,270	532,770	
13.05.18 Utilities								
13.05.18.15 Mechanical		57,790	5,780	3,180	5,340	720	72,810	
13.05.18.16 Electrical		2,000,000	0	0	0	0	2,000,000	
TOTAL Utilities		2,057,790	5,780	3,180	5,340	720	2,072,810	
13.05.74 Substructure (Concrete)								
13.05.74.05 Reinforced Concrete	5602.00 CY	1,524,750	152,480	83,860	140,890	19,020	1,921,000	342.91
TOTAL Substructure (Concrete)	5602.00 CY	1,524,750	152,480	83,860	140,890	19,020	1,921,000	342.91
13.05.75 Superstructure								
13.05.75.03 Reinforced Concrete	1099.00 CY	459,680	45,970	25,280	42,470	5,730	579,140	526.97
13.05.75.04 Masonry		181,000	18,100	9,960	16,720	2,260	228,040	
13.05.75.05 Metals		925,800	92,580	50,920	85,540	11,550	1,166,390	
13.05.75.06 Wood and Plastics		2,000	200	110	180	20	2,520	
13.05.75.07 Thermal and Moisture Prote		13,800	1,380	760	1,280	170	17,390	
13.05.75.08 Doors and Windows		8,230	820	450	760	100	10,360	
13.05.75.09 Finishes		45,830	4,580	2,520	4,230	570	57,740	
13.05.75.10 Specialties		2,500	250	140	230	30	3,150	
13.05.75.11 Equipment		978,800	97,880	53,830	90,440	12,210	1,233,160	
13.05.75.15 Mechanical		341,300	34,130	18,770	31,540	4,260	429,990	
13.05.75.17 Electrical		534,990	53,500	29,420	49,430	6,670	674,020	
TOTAL Superstructure		3,493,920	349,390	192,170	322,840	43,580	4,401,900	
13.05.76 Pumping Machinery & Appurtena								

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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
13.05.76.15	Mechanical			3,154,710	315,470	173,510	291,490	39,350	3,974,530	
13.05.76.16	Electrical			970,540	97,050	53,380	89,680	12,110	1,222,750	
	TOTAL Pumping Machinery & Appurt			4,125,240	412,520	226,890	381,170	51,460	5,197,290	
13.05.77	Gates and Valves									
13.05.77.15	Mechanical			1,146,530	114,650	63,060	105,940	14,300	1,444,480	
	TOTAL Gates and Valves			1,146,530	114,650	63,060	105,940	14,300	1,444,480	
13.05.78	Auxiliary Equipment									
13.05.78.14	Conveying Systems			566,330	56,630	31,150	52,330	7,060	713,500	
	TOTAL Auxiliary Equipment			566,330	56,630	31,150	52,330	7,060	713,500	
	TOTAL Pump.Plant-P1000R-1750cfsC	1.00	EA	15,007,410	1,300,740	715,410	1,201,890	162,250	18,387,700	18387704
13.12	Pump.Plant-P-2000R-625cfsCA08 P2									
13.12.10	Civil									
13.12.10.10	Mobilization & Demobilizat			25,000	2,500	1,380	2,310	310	31,500	
13.12.10.15	Clearing and Grubbing	1.00	EA	15,000	1,500	830	1,390	190	18,900	18898.11
13.12.10.20	Asphalt Road	1.00	EA	40,000	4,000	2,200	3,700	500	50,390	50394.96
13.12.10.25	Dewatering			250,000	25,000	13,750	23,100	3,120	314,970	
13.12.10.30	Cofferdam			100,000	10,000	5,500	9,240	1,250	125,990	
13.12.10.35	Structural Excavation	2830.00	CY	7,080	710	390	650	90	8,910	3.15
13.12.10.40	Random Backfill	1880.00	CY	5,640	560	310	520	70	7,110	3.78
13.12.10.45	Granular Backfill	3000.00	CY	30,000	3,000	1,650	2,770	370	37,800	12.60
	TOTAL Civil	1.00	EA	472,720	47,270	26,000	43,680	5,900	595,560	595561.34
13.12.20	Structural Superstructure									
13.12.20.10	Prefabricated Building			50,000	5,000	2,750	4,620	620	62,990	
	TOTAL Structural Superstructure	1.00	EA	50,000	5,000	2,750	4,620	620	62,990	62993.70
13.12.22	Structural Substructure									
13.12.22.10	Reinforced Concrete	752.00	CY	263,200	26,320	14,480	24,320	3,280	331,600	440.96
13.12.22.20	Miscellaneous Metals			5,000	500	280	460	60	6,300	
	TOTAL Structural Substructure	1.00	EA	268,200	26,820	14,750	24,780	3,350	337,900	337898.21

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
13.12.30 Mechanical								
13.12.30.10	54"Drop-in Subm. Pump(1)	5.00 EA	1,074,870	107,490	59,120	99,320	13,410	1,354,200 270839.94
13.12.30.15	Discharge Pipe 48" Diamete	180.00 LF	70,730	7,070	3,890	6,540	880	89,120 495.08
13.12.30.20	Dressor Coupling - 48" dia	25.00 EA	23,690	2,370	1,300	2,190	300	29,850 1194.03
13.12.30.25	Flexible Check Valve	5.00 EA	101,130	10,110	5,560	9,340	1,260	127,410 25482.25
13.12.30.30	Trash Racks	5.00 EA	173,370	17,340	9,540	16,020	2,160	218,420 43683.86
13.12.30.35	Portable Dewatering Pump	1.00 EA	5,780	580	320	530	70	7,280 7280.64
13.12.30.40	Heat/Air Conditioning	1.00 EA	3,470	350	190	320	40	4,370 4368.39
TOTAL Mechanical		1.00 EA	1,453,040	145,300	79,920	134,260	18,130	1,830,650 1830645
13.12.40 Electrical								
13.12.40.10	Lighting		15,370	1,540	850	1,420	190	19,370
13.12.40.13	Grounding System		10,290	1,030	570	950	130	12,960
13.12.40.15	Wire and Cable		21,170	2,120	1,160	1,960	260	26,680
13.12.40.18	Electrical Tubing and Fitt		29,850	2,990	1,640	2,760	370	37,610
13.12.40.20	Transformers		18,840	1,880	1,040	1,740	230	23,730
13.12.40.25	460 Volt Motor Control Cen		305,700	30,570	16,810	28,250	3,810	385,150
13.12.40.30	Distribution Panel & Break		10,460	1,050	580	970	130	13,180
13.12.40.35	Safety Switches		15,600	1,560	860	1,440	190	19,660
13.12.40.40	Water Level Sensors		9,250	920	510	850	120	11,650
13.12.40.45	Communications		2,540	250	140	230	30	3,200
13.12.40.50	Automatic Controls		32,940	3,290	1,810	3,040	410	41,500
13.12.40.55	Lightning Protection		15,030	1,500	830	1,390	190	18,930
13.12.40.60	Substation and Transmissio		214,000	0	0	0	0	214,000
13.12.40.65	Miscellaneous		183,590	18,360	10,100	16,960	2,290	231,310
TOTAL Electrical		1.00 EA	884,640	67,060	36,890	61,970	8,370	1,058,920 1058919
TOTAL Pump.Plant-P-2000R-625cfsC		1.00 EA	3,128,590	291,460	160,300	269,310	36,360	3,886,020 3886017
13.16 Pump.Plant-P-3000R-260cfsCA14 P3								
13.16.10 Civil								
13.16.10.10	Mobilization & Demobilizat		25,000	2,500	1,380	2,310	310	31,500
13.16.10.15	Clearing and Grubbing		15,000	1,500	830	1,390	190	18,900
13.16.10.20	Asphalt Road		40,000	4,000	2,200	3,700	500	50,390
13.16.10.25	Dewatering		250,000	25,000	13,750	23,100	3,120	314,970
13.16.10.30	Cofferdam		100,000	10,000	5,500	9,240	1,250	125,990
13.16.10.35	Structural Excavation	2400.00 CY	6,000	600	330	550	70	7,560 3.15
13.16.10.40	Ramdom Backfill	1780.00 CY	5,340	530	290	490	70	6,730 3.78
13.16.10.45	Granular Backfill	500.00 CY	5,000	500	280	460	60	6,300 12.60
TOTAL Civil		1.00 EA	446,340	44,630	24,550	41,240	5,570	562,330 562332.16

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13.16.20 Structural Superstructure									
13.16.20.10	Prefabricated Building		50,000	5,000	2,750	4,620	620	62,990	
	TOTAL Structural Superstructure	1.00 EA	50,000	5,000	2,750	4,620	620	62,990	62993.70
13.16.22 Structural Substructure									
13.16.22.10	Reinforced Concrete	370.00 CY	129,500	12,950	7,120	11,970	1,620	163,150	440.96
13.16.22.20	Miscellaneous Metals		5,000	500	280	460	60	6,300	
	TOTAL Structural Substructure	1.00 EA	134,500	13,450	7,400	12,430	1,680	169,450	169453.05
13.16.30 Mechanical									
13.16.30.10	48"Drop-in Subm. Pump(1)	3.00 EA	350,200	35,020	19,260	32,360	4,370	441,210	147069.00
13.16.30.15	Discharge Pipe 60" Diamete	270.00 LF	37,450	3,740	2,060	3,460	470	47,180	174.74
13.16.30.30	Trash Racks	3.00 EA	104,020	10,400	5,720	9,610	1,300	131,050	43683.86
13.16.30.35	Portable Dewatering Pump	1.00 EA	5,780	580	320	530	70	7,280	7280.64
13.16.30.40	Heat/Air Conditioning		3,470	350	190	320	40	4,370	
	TOTAL Mechanical	1.00 EA	500,910	50,090	27,550	46,280	6,250	631,090	631086.19
13.16.40 Electrical									
13.16.40.10	Lighting		11,100	1,110	610	1,030	140	13,980	
13.16.40.13	Grounding System		6,010	600	330	560	70	7,570	
13.16.40.15	Wire and Cable		22,190	2,220	1,220	2,050	280	27,960	
13.16.40.18	Electrical Tubing and Fitt		25,580	2,560	1,410	2,360	320	32,220	
13.16.40.20	Transformers		14,560	1,460	800	1,350	180	18,350	
13.16.40.25	460 Volt Motor Control Cen		72,810	7,280	4,000	6,730	910	91,740	
13.16.40.30	Distribution Panel & Break		6,180	620	340	570	80	7,790	
13.16.40.35	Safety Switches		11,330	1,130	620	1,050	140	14,270	
13.16.40.40	Water Level Sensors		9,250	920	510	850	120	11,650	
13.16.40.45	Communications		2,540	250	140	230	30	3,200	
13.16.40.50	Automatic Controls		22,880	2,290	1,260	2,110	290	28,830	
13.16.40.55	Lightning Protection		10,750	1,070	590	990	130	13,540	
13.16.40.60	Substation and Transmissio		213,700	0	0	0	0	213,700	
13.16.40.65	Miscellaneous		115,540	11,550	6,350	10,680	1,440	145,570	
	TOTAL Electrical	1.00 EA	544,420	33,070	18,190	30,560	4,130	630,370	630371.24
	TOTAL Pump.Plant-P-3000R-260cfsC	1.00 EA	1,676,180	146,250	80,440	135,130	18,240	2,056,240	2056236

13.22 Pump.Plant-P-2140R-125cfsCA05 P4

13.22.10 Civil

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
13.22.10.10	Mobilization & Demobilizat		25,000	2,500	1,380	2,310	310	31,500	
13.22.10.15	Clearing and Grubbing		15,000	1,500	830	1,390	190	18,900	
13.22.10.20	Asphalt Road		40,000	4,000	2,200	3,700	500	50,390	
13.22.10.25	Dewatering		250,000	25,000	13,750	23,100	3,120	314,970	
13.22.10.30	Cofferdam		100,000	10,000	5,500	9,240	1,250	125,990	
13.22.10.35	Structural Excavation	1400.00 CY	3,500	350	190	320	40	4,410	3.15
13.22.10.40	Random Backfill	1010.00 CY	3,030	300	170	280	40	3,820	3.78
13.22.10.45	Granular Backfill	500.00 CY	5,000	500	280	460	60	6,300	12.60
TOTAL Civil		1.00 EA	441,530	44,150	24,280	40,800	5,510	556,270	556272.17
13.22.20 Structural Superstructure									
13.22.20.10	Prefabricated Building		30,000	3,000	1,650	2,770	370	37,800	
TOTAL Structural Superstructure		1.00 EA	30,000	3,000	1,650	2,770	370	37,800	37796.22
13.22.22 Structural Substructure									
13.22.22.10	Reinforced Concrete	240.00 CY	84,000	8,400	4,620	7,760	1,050	105,830	440.96
13.22.22.20	Miscellaneous Metals		5,000	500	280	460	60	6,300	
TOTAL Structural Substructure		1.00 EA	89,000	8,900	4,900	8,220	1,110	112,130	112128.79
13.22.30 Mechanical									
13.22.30.10	40"Drop-in Subm. Pump(1)	3.00 EA	208,040	20,800	11,440	19,220	2,600	262,100	87367.72
13.22.30.15	Discharge Pipe 42" Diamete	120.00 LF	13,310	1,330	730	1,230	170	16,770	139.79
13.22.30.30	Trash Racks	3.00 EA	104,020	10,400	5,720	9,610	1,300	131,050	43683.86
13.22.30.35	Portable Dewatering Pump	1.00 EA	5,780	580	320	530	70	7,280	7280.64
13.22.30.40	Heat/Air Conditioning	1.00 EA	3,470	350	190	320	40	4,370	4368.39
TOTAL Mechanical		1.00 EA	334,620	33,460	18,400	30,920	4,170	421,580	421578.39
13.22.40 Electrical									
13.22.40.10	Lighting		11,100	1,110	610	1,030	140	13,980	
13.22.40.13	Grounding System		6,010	600	330	560	70	7,570	
13.22.40.15	Wire and Cable		12,370	1,240	680	1,140	150	15,580	
13.22.40.18	Electrical Tubing and Fitt		25,580	2,560	1,410	2,360	320	32,220	
13.22.40.20	Transformers		14,560	1,460	800	1,350	180	18,350	
13.22.40.25	Motor Control Center		42,880	4,290	2,360	3,960	530	54,020	
13.22.40.30	Distribution Panel & Break		6,180	620	340	570	80	7,790	
13.22.40.35	Safety Switches		11,330	1,130	620	1,050	140	14,270	
13.22.40.40	Water Level Sensors		9,250	920	510	850	120	11,650	
13.22.40.45	Communications		2,540	250	140	230	30	3,200	
13.22.40.50	Automatic Controls		22,880	2,290	1,260	2,110	290	28,830	

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13.22.40.55 Lightning Protection			10,750	1,070	590	990	130	13,540	
13.22.40.60 Substation and Transmissio			466,700	0	0	0	0	466,700	
13.22.40.65 Miscellaneous			115,540	11,550	6,350	10,680	1,440	145,570	
TOTAL Electrical	1.00	EA	757,670	29,100	16,000	26,890	3,630	833,280	833280.41
TOTAL Pump.Plant-P-2140R-125cfsC	1.00	EA	1,652,820	118,610	65,240	109,600	14,800	1,961,060	1961056
TOTAL Pumping Plants	1.00	EA	21,465,000	1,857,060	1,021,380	1,715,920	231,650	26,291,010	26291013
19 Buildings,Grounds, & Utilities									
19.05 SITE WORK --OPER. & MAINT. BLDGS									
19.05.05 Clearing and Grubbing	5.40	AC	3,160	320	170	290	40	3,990	738.06
19.05.10 Top Soil Removal (4 inches)	2886.00	CY	1,870	190	100	170	20	2,350	0.82
19.05.15 Aggregate Base Course, Class									
19.05.15.05 Aggr Base Course, Unpaved	3070.00	TON	47,990	4,800	2,640	4,430	600	60,460	19.69
19.05.15.10 Aggr Base Course, Under As	2585.00	TON	40,410	4,040	2,220	3,730	500	50,910	19.69
19.05.15.15 Aggr Base Course, Under 8"	458.00	TON	7,160	720	390	660	90	9,020	19.69
19.05.15.20 Aggr Base Course, Under Si	377.00	TON	5,890	590	320	540	70	7,420	19.69
TOTAL Aggregate Base Course, Cla	6490.00	TON	101,450	10,140	5,580	9,370	1,270	127,810	19.69
19.05.20 ACHM 3-1/2" Binder Course	1033.00	TON	31,800	3,180	1,750	2,940	400	40,060	38.78
19.05.25 ACHM 1-1/2" Surface Course	443.00	TON	15,320	1,530	840	1,420	190	19,300	43.57
19.05.30 Concrete Curb and Gutter									
19.05.30.05 Concrete Curb and Gutter	1808.00	LF	25,460	2,550	1,400	2,350	320	32,080	17.74
TOTAL Concrete Curb and Gutter	1808.00	LF	25,460	2,550	1,400	2,350	320	32,080	17.74
19.05.35 Conc Curb btw Pkg Lot & Sidew									
19.05.35.05 Conc Curb btw Pkg Lot & Si	290.00	LF	4,730	470	260	440	60	5,960	20.56
TOTAL Conc Curb btw Pkg Lot & Si	290.00	LF	4,730	470	260	440	60	5,960	20.56
19.05.40 8" Concrete Pavement									
19.05.40.05 Forming	1425.00	LF	3,000	300	170	280	40	3,780	2.66
19.05.40.10 Curved (Radius) Forming	126.00	LF	320	30	20	30	0	400	3.21
19.05.40.15 Key Forming, 4"	371.00	LF	880	90	50	80	10	1,110	2.99
19.05.40.20 Rebar	17.00	TON	16,740	1,670	920	1,550	210	21,100	1240.92
19.05.40.25 Place Concrete	251.00	CY	18,620	1,860	1,020	1,720	230	23,460	93.47

LABOR ID: BMLABR EQUIP ID: NEWEQ9

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CREW ID: BMCRWA UPB ID: BMUP11

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		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.05.40.30	Broom Finish	10152.00 SF	3,100	310	170	290	40	3,900	0.38
19.05.40.35	Membrane Cure Finished Sur	102.00 CSF	390	40	20	40	0	490	4.77
TOTAL 8" Concrete Pavement		844.00 SY	43,060	4,310	2,370	3,980	540	54,240	64.27
19.05.45 6" Concrete Pavement									
19.05.45.05	Forming	350.00 LF	620	60	30	60	10	790	2.25
19.05.45.15	Key Forming, 4"	120.00 LF	280	30	20	30	0	360	2.99
19.05.45.20	Rebar	3.00 TON	2,950	300	160	270	40	3,720	1240.92
19.05.45.25	Place Concrete	43.00 CY	3,240	320	180	300	40	4,090	95.07
19.05.45.30	Broom Finish	2300.00 SF	700	70	40	60	10	880	0.38
19.05.45.35	Membrane Cure Finished Sur	23.00 CSF	90	10	0	10	0	110	4.77
TOTAL 6" Concrete Pavement		116.00 SY	7,900	790	430	730	100	9,950	85.78
19.05.50 Excavation and Backfill									
19.05.50.05	Excavation	200.00 CY	140	10	10	10	0	170	0.85
19.05.50.10	Backfill Around Structures	1944.00 CY	1,280	130	70	120	20	1,610	0.83
19.05.50.15	Compaction	1944.00 CY	1,580	160	90	150	20	1,990	1.02
TOTAL Excavation and Backfill		200.00 CY	2,990	300	160	280	40	3,770	18.84
19.05.55 4" Concrete Sidewalks									
19.05.55.05	Forming	3183.00 LF	2,960	300	160	270	40	3,730	1.17
19.05.55.10	Reinforcing Steel	4140.00 SF	14,390	1,440	790	1,330	180	18,130	4.38
19.05.55.15	Concrete Placement	100.00 CY	7,800	780	430	720	100	9,830	98.28
19.05.55.20	Broom Finish	8064.00 SF	2,460	250	140	230	30	3,100	0.38
19.05.55.25	Membrane Cure Finished Sur	81.00 CSF	310	30	20	30	0	390	4.77
TOTAL 4" Concrete Sidewalks		460.00 SY	27,920	2,790	1,540	2,580	350	35,170	76.46
19.05.60 Reflectorized Paint Pvmt Mark									
19.05.60.05	Parking Lots	1045.00 LF	190	20	10	20	0	240	0.23
19.05.60.10	Bus Stalls, 5 each	75.00 LF	10	0	0	0	0	20	0.23
19.05.60.15	Handicapped Stalls, 3 each	105.00 LF	20	0	0	0	0	20	0.23
19.05.60.20	Other (@ End of Bus Stall)	85.00 LF	20	0	0	0	0	20	0.23
TOTAL Reflectorized Paint Pvmt M		1310.00 LF	240	20	10	20	0	300	0.23
19.05.62	Handicapped Parking Signs	3.00 EA	150	10	10	10	0	190	62.02
19.05.64	6' Chain Link Fence	1210.00 LF	14,900	1,490	820	1,380	190	18,770	15.51
19.05.66 Gates									

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.05.66.05 Gate	32.00 LF	3,760	380	210	350	50	4,740	148.07
19.05.66.10 Gate	30.00 LF	3,530	350	190	330	40	4,440	148.07
19.05.66.15 Motor Operators	2.00 EA	8,200	820	450	760	100	10,330	5166.53
TOTAL Gates	2.00 EA	15,490	1,550	850	1,430	190	19,510	9756.65
19.05.68 Fueling System								
19.05.68.05 Fueling System	1.00 EA	50	0	0	0	0	60	62.45
19.05.68.10 Form Slab	66.00 SF	160	20	10	10	0	200	3.05
19.05.68.15 Form Walls	650.00 SF	2,130	210	120	200	30	2,690	4.13
19.05.68.20 Curved Forms for Pipe Open	32.00 SF	230	20	10	20	0	290	9.21
19.05.68.25 Install Rebar	2.75 TON	2,600	260	140	240	30	3,270	1188.95
19.05.68.30 Place Concrete & Finish SO	10.00 CY	750	80	40	70	10	950	95.06
19.05.68.35 Place Concrete & Finish in	12.00 CY	1,060	110	60	100	10	1,340	111.79
19.05.68.40 Inst 3/4" Anchor Bolts	8.00 EA	20	0	0	0	0	30	3.63
19.05.68.45 Form Removal	750.00 SF	500	50	30	50	10	630	0.84
19.05.68.50 Patch Finish	650.00 SF	250	20	10	20	0	310	0.48
TOTAL Fueling System	1.00 EA	7,760	780	430	720	100	9,780	9778.52
19.05.70 Fuel Storage Tanks (20,000 Ga								
19.05.70.05 Fuel Storage Tanks	2.00 EA	26,100	2,610	1,440	2,410	330	32,880	16440.09
TOTAL Fuel Storage Tanks (20,000	2.00 EA	26,100	2,610	1,440	2,410	330	32,880	16440.09
19.05.72 Trees								
19.05.72.05 Trees	44.00 EA	31,910	3,190	1,760	2,950	400	40,200	913.71
TOTAL Trees	44.00 EA	31,910	3,190	1,760	2,950	400	40,200	913.71
19.05.74 Bushes								
19.05.74.05 Bushes	93.00 EA	2,030	200	110	190	30	2,560	27.54
TOTAL Bushes	93.00 EA	2,030	200	110	190	30	2,560	27.54
19.05.76 Solid Sodding (Bermuda)								
19.05.76.05 Top Soil	288.00 CY	600	60	30	60	10	750	2.62
19.05.76.10 Top Dress by Hand	23301.00 SF	560	60	30	50	10	700	0.03
19.05.76.15 Fertilize, Roto-till in	2589.00 SY	620	60	30	60	10	780	0.30
19.05.76.20 Solid Sodding (Bermuda)	2589.00 SY	3,570	360	200	330	40	4,490	1.73

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.05.76.25 Water	23.30 MSF	60	10	0	10	0	80	3.34
TOTAL Solid Sodding (Bermuda)	2589.00 SY	5,400	540	300	500	70	6,810	2.63
19.05.78 Seeding								
19.05.78.05 Seeding	15255.00 SF	6,680	670	370	620	80	8,410	0.55
19.05.78.15 Installation	4120.00 LBS	3,500	350	190	320	40	4,420	1.07
TOTAL Seeding	1695.00 SY	10,180	1,020	560	940	130	12,830	7.57
19.05.80 Flag Poles								
19.05.80.05 Flag Poles	2.00 EA	5,120	510	280	470	60	6,450	3224.17
TOTAL Flag Poles	2.00 EA	5,120	510	280	470	60	6,450	3224.17
19.05.82 Plumbing, Water & Sewer								
19.05.82.05 Sewer Line, 4"	450.00 LF	2,470	250	140	230	30	3,110	6.92
19.05.82.10 Water Line, 1"	800.00 LF	1,330	130	70	120	20	1,670	2.09
TOTAL Plumbing, Water & Sewer	1.00 EA	3,800	380	210	350	50	4,780	4781.72
19.05.84 Geotextile, Riprap & Bedding								
19.05.84.05 Geotextile	247.00 SY	510	50	30	50	10	650	2.62
19.05.84.10 Bedding	42.00 CY	960	100	50	90	10	1,210	28.83
19.05.84.15 R90 Riprap	113.00 CY	4,050	410	220	370	50	5,100	45.17
TOTAL Geotextile, Riprap & Beddi	105.00 TON	5,530	550	300	510	70	6,960	66.30
19.05.86 Lay 48" RCP								
19.05.86.05 Downstream Conduit, 48" RC	52.00 LF	6,260	630	340	580	80	7,890	151.76
19.05.86.10 Upstream Conduit, 42" RCP	80.00 LF	9,640	960	530	890	120	12,140	151.76
TOTAL Lay 48" RCP	132.00 LF	15,900	1,590	870	1,470	200	20,030	151.76
19.05.88 Canal Gate								
19.05.88.05 48" Canal Gate	2.00 EA	13,070	1,310	720	1,210	160	16,470	8232.98
19.05.88.10 Motorized Operator	2.00 EA	2,150	220	120	200	30	2,710	1355.62
TOTAL Canal Gate	2.00 EA	15,220	1,520	840	1,410	190	19,180	9588.61

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.05.90 Metal Work								
19.05.90. 1	Grating, 8' x 4.5'	72.00 SF	740	70	40	70	930	12.89
19.05.90. 2	Embedded Metal	288.00 LBS	580	60	30	50	740	2.56
TOTAL Metal Work		1.00 EA	1,320	130	70	120	1,660	1664.54
19.05.92 Outlet Structure for 48" Pipe								
19.05.92.05	Excavate for Toe	1.70 CY	20	0	0	0	30	18.38
19.05.92.10	Prepare Subbase	396.00 SF	80	10	0	10	100	0.26
19.05.92.15	Form Slab	80.00 SF	190	20	10	20	240	3.05
19.05.92.20	Form Walls	570.00 SF	1,870	190	100	170	2,360	4.13
19.05.92.25	Curved Forms for Pipe Open	32.00 SF	230	20	10	20	290	9.21
19.05.92.30	Install Rebar	3.00 TON	2,830	280	160	260	3,570	1188.95
19.05.92.35	Place & Finish Conc Toe &	16.50 CY	1,250	120	70	120	1,570	95.07
19.05.92.40	Place & Finish Concrete in	10.50 CY	930	90	50	90	1,170	111.79
19.05.92.45	Form Removal	682.00 SF	450	50	20	40	570	0.83
19.05.92.50	Patch Finish	570.00 SF	220	20	10	20	270	0.48
19.05.92.55	Spray Membrane Cure Expose	3.00 CSF	20	0	0	0	20	7.87
TOTAL Outlet Structure for 48" P		1.00 EA	8,100	810	450	750	10,210	10205.64
19.05.94 Stilling Wells								
19.05.94.05	Stilling Well Outlet	2.00 EA	3,430	340	190	320	4,320	2160.93
19.05.94.10	4" Sch 80 PVC	2.00 EA	1,980	200	110	180	2,500	1248.74
19.05.94.15	12" Sch 80 PVC	2.00 EA	850	90	50	80	1,070	535.64
19.05.94.20	12" to 4" Sch 80 PVC Reduc	2.00 EA	130	10	10	10	160	81.38
19.05.94.25	Concrete Mounting Pad	2.00 EA	330	30	20	30	410	205.25
19.05.94.30	Geotextile, Riprap & Beddi	52.50 TON	2,760	280	150	260	3,480	66.28
TOTAL Stilling Wells		2.00 EA	9,480	950	520	880	11,940	5971.75
19.05.96 Electrical Work, 03/14/01								
19.05.96.04	Incoming System	1.00 EA	9,910	990	540	920	12,480	12482.41
19.05.96.10	Electrical Enclosure, 14 g	1.00 EA	14,150	1,410	780	1,310	17,820	17821.76
19.05.96.15	Gate Actuator	1.00 EA	1,280	130	70	120	1,610	1606.90
19.05.96.19	Flow Meters, for 42" pipe	2.00 EA	18,340	1,830	1,010	1,690	23,110	11554.17
19.05.96.25	Grounding Counterpoise	1.00 EA	870	90	50	80	1,100	1098.29
19.05.96.30	Stilling Well No. 1	1.00 EA	7,320	730	400	680	9,220	9222.55
19.05.96.32	Stilling Well No. 2	1.00 EA	7,310	730	400	680	9,220	9215.44
19.05.96.35	Antenna Pole	1.00 EA	1,370	140	80	130	1,730	1728.72
19.05.96.40	Electrical UG pull box	1.00 EA	700	70	40	70	890	887.63
TOTAL Electrical Work, 03/14/01		1.00 EA	61,250	6,130	3,370	5,660	77,170	77172.04

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL SITE WORK --OPER. & MAINT.	1.00 EA	505,540	50,550	27,800	46,710	6,310	636,910	636912.18
19.10 ADMINISTRATION BUILDING								
19.10.05 BUILDING SITE ADMIN. BLDG								
19.10.05.05 Subgrade Prep	1050.00 SY	660	70	40	60	10	840	0.80
19.10.05.10 Undercut 3'	1300.00 BCY	5,960	600	330	550	70	7,500	5.77
19.10.05.15 Select Fill	1800.00 BCY	22,050	2,200	1,210	2,040	280	27,780	15.43
19.10.05.20 Granular Fill	9200.00 SF	3,560	360	200	330	40	4,480	0.49
19.10.05.25 Fine Grade	9200.00 SF	550	60	30	50	10	700	0.08
19.10.05.30 Vapor Barrier	9200.00 SF	880	90	50	80	10	1,110	0.12
19.10.05.35 Termite Protection	9200.00 SF	4,560	460	250	420	60	5,740	0.62
19.10.05.40 Bollards	8.00 EA	1,690	170	90	160	20	2,130	266.30
TOTAL BUILDING SITE ADMIN. BLDG	1.00 EA	39,910	3,990	2,200	3,690	500	50,280	50283.11
19.10.10 CONCRETE								
19.10.10.05 Column Footings	54.00 EA	3,340	330	180	310	40	4,210	77.89
19.10.10.10 Exterior Grade Beam	476.00 LF	28,190	2,820	1,550	2,600	350	35,520	74.61
19.10.10.20 5" Floor Slab on Grade	9160.00 SF	19,130	1,910	1,050	1,770	240	24,100	2.63
TOTAL CONCRETE	1.00 EA	50,650	5,070	2,790	4,680	630	63,820	63818.64
19.10.15 MASONRY								
19.10.15.10 Brick	4433.00 SF	29,750	2,980	1,640	2,750	370	37,480	8.46
19.10.15.15 Pre-Cast	3577.00 SF	68,410	6,840	3,760	6,320	850	86,180	24.09
TOTAL MASONRY	1.00 EA	98,160	9,820	5,400	9,070	1,220	123,670	123666.41
19.10.20 METALS								
19.10.20.05 Structural Framing	55000.00 LBS	50,310	5,030	2,770	4,650	630	63,390	1.15
19.10.20.10 Purlins	2400.00 LF	2,220	220	120	200	30	2,790	1.16
19.10.20.15 Miscellaneous Metal	12000.00 LB	31,690	3,170	1,740	2,930	400	39,930	3.33
19.10.20.20 Mezzanine Framing for 4" S	500.00 SF	4,400	440	240	410	50	5,550	11.09
19.10.20.25 Stairs and Ladders	2.00 EA	4,110	410	230	380	50	5,180	2591.87
TOTAL METALS	1.00 EA	92,740	9,270	5,100	8,570	1,160	116,840	116841.05
19.10.25 METALS & PLASTICS								
19.10.25.05 Finish and Rough Carpentry	9000.00 SF	23,480	2,350	1,290	2,170	290	29,590	3.29
19.10.25.10 Millwork	100.00 LF	17,530	1,750	960	1,620	220	22,090	220.88

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19.10.25.15 Comice Framing	477.00 LF	8,420	840	460	780	100	10,600	22.23
TOTAL METALS & PLASTICS	1.00 EA	49,430	4,940	2,720	4,570	620	62,280	62276.80
19.10.30 THERMAL AND MOISTURE PROTECTI								
19.10.30.05 Insulation, (Batts), Walls	8000.00 SF	3,900	390	210	360	50	4,920	0.61
19.10.30.10 Insulation, Roof, R20	10800.00 SF	10,050	1,000	550	930	130	12,660	1.17
19.10.30.15 Standing Seam Roof Panels	10800.00 SF	63,650	6,360	3,500	5,880	790	80,190	7.42
19.10.30.20 Waterproofing R-8	8000.00 SF	3,870	390	210	360	50	4,880	0.61
19.10.30.25 Gutters and Downspouts	830.00 LF	3,690	370	200	340	50	4,650	5.61
TOTAL THERMAL AND MOISTURE PROTE	1.00 EA	85,160	8,520	4,680	7,870	1,060	107,290	107294.22
19.10.35 DOORS AND WINDOWS								
19.10.35.05 Doors, Frames and Hardware	31.00 EA	18,090	1,810	1,000	1,670	230	22,790	735.30
19.10.35.10 Windows and Glazing	294.00 SF	8,480	850	470	780	110	10,680	36.33
19.10.35.15 Aluminum Storefronts	1152.00 SF	35,480	3,550	1,950	3,280	440	44,690	38.80
TOTAL DOORS AND WINDOWS	1.00 EA	62,050	6,200	3,410	5,730	770	78,170	78170.94
19.10.40 FINISHES								
19.10.40.05 Dry Wall	13900.00 SF	69,840	6,980	3,840	6,450	870	87,980	6.33
19.10.40.10 Painting and Finishing	16386.00 SF	7,130	710	390	660	90	8,980	0.55
19.10.40.15 Wall Covering	5460.00 SF	8,040	800	440	740	100	10,130	1.86
19.10.40.20 Miscellaneous Painting		4,910	490	270	450	60	6,190	
19.10.40.25 Porcelain Tile	1520.00 SF	11,740	1,170	650	1,080	150	14,790	9.73
19.10.40.30 Ceramic Tile	2225.00 SF	9,360	940	510	860	120	11,790	5.30
19.10.40.35 Carpet	382.00 SY	8,950	900	490	830	110	11,280	29.52
19.10.40.40 Vinyl Composition Tile	1636.00 SF	3,700	370	200	340	50	4,670	2.85
19.10.40.45 Wood Base	1534.00 LF	3,840	380	210	350	50	4,830	3.15
19.10.40.50 Rubber Base	452.00 LF	480	50	30	40	10	600	1.33
19.10.40.55 Metal Linear Ceiling	1520.00 SF	5,260	530	290	490	70	6,620	4.36
19.10.40.60 Accoustical Tile	7370.00 SF	17,700	1,770	970	1,640	220	22,300	3.03
TOTAL FINISHES	1.00 EA	150,950	15,090	8,300	13,950	1,880	190,180	190176.43
19.10.45 SPECIALTIES								
19.10.45.05 Computer Flooring	1790.00 SF	21,680	2,170	1,190	2,000	270	27,310	15.26
19.10.45.10 Specialties, Toilet Rooms	54.00 EA	6,650	660	370	610	80	8,370	155.05
19.10.45.15 Fire Extinguishers	13.00 EA	2,900	290	160	270	40	3,650	280.61
TOTAL SPECIALTIES	1.00 EA	31,220	3,120	1,720	2,880	390	39,330	39334.93

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19.10.50 SPECIAL CONSTRUCTION									
19.10.50.05	Fire Suppresion-Computer R	2600.00 CF	8,390	840	460	780	100	10,570	4.07
TOTAL SPECIAL CONSTRUCTION		1.00 EA	8,390	840	460	780	100	10,570	10573.87
19.10.55 MECHANICAL									
19.10.55.05	HVAC	9160.00 SF	93,600	9,360	5,150	8,650	1,170	117,930	12.87
19.10.55.10	Plumbing	9160.00 SF	20,640	2,060	1,140	1,910	260	26,010	2.84
TOTAL MECHANICAL		1.00 EA	114,240	11,420	6,280	10,560	1,430	143,930	143933.83
19.10.60 ELECTRICAL									
19.10.60.05	Service & Distribution Equ	9160.00 SF	35,060	3,510	1,930	3,240	440	44,170	4.82
19.10.60.10	Lighting System	9160.00 SF	68,540	6,850	3,770	6,330	850	86,350	9.43
19.10.60.15	Wiring Devices	9160.00 SF	18,310	1,830	1,010	1,690	230	23,070	2.52
19.10.60.20	Equipment Connections	9160.00 SF	13,200	1,320	730	1,220	160	16,640	1.82
19.10.60.25	Basic Materials	9160.00 SF	15,610	1,560	860	1,440	190	19,660	2.15
19.10.60.30	Transient Suppressor Syste		11,870	1,190	650	1,100	150	14,950	
19.10.60.35	Fire Alarm System		13,740	1,370	760	1,270	170	17,310	
19.10.60.40	Fire Suppression System		17,170	1,720	940	1,590	210	21,630	
19.10.60.45	Lightning Protection Syste		11,450	1,140	630	1,060	140	14,420	
19.10.60.50	Emergency Generator System		40,060	4,010	2,200	3,700	500	50,480	
19.10.60.55	Access Control & Security		11,450	1,140	630	1,060	140	14,420	
19.10.60.60	Universal Wiring System		17,170	1,720	940	1,590	210	21,630	
19.10.60.65	Ground Ring System		7,710	770	420	710	100	9,710	
19.10.60.70	Uninterruptible Power Supp		38,920	3,890	2,140	3,600	490	49,030	
19.10.60.75	Site Lighting System	24.00 EA	70,790	7,080	3,890	6,540	880	89,190	3716.27
TOTAL ELECTRICAL		1.00 EA	391,040	39,100	21,510	36,130	4,880	492,660	492659.29
TOTAL ADMINISTRATION BUILDING		1.00 EA	1,173,950	117,400	64,570	108,470	14,640	1,479,030	1479030
19.15 MAINTENANCE BUILDING									
19.15.05 SITE									
19.15.05.05	Subgrade Prep	1075.00 SY	680	70	40	60	10	860	0.80
19.15.05.10	Undercut 2.5'	750.00 BCY	3,440	340	190	320	40	4,330	5.77
19.15.05.15	Select Fill	850.00 BCY	10,410	1,040	570	960	130	13,120	15.43
19.15.05.20	Granular Fill	8033.00 SF	3,090	310	170	290	40	3,890	0.48
19.15.05.25	Fine Grade	8033.00 SF	480	50	30	40	10	610	0.08
19.15.05.30	Vapor Barrier	8033.00 SF	770	80	40	70	10	970	0.12
19.15.05.35	Termite Protection	8033.00 SF	4,560	460	250	420	60	5,740	0.72
19.15.05.40	Bollards	18.00 EA	3,800	380	210	350	50	4,790	266.30

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL SITE	1.00 EA	27,230	2,720	1,500	2,520	340	34,310	34307.97
19.15.10 CONCRETE								
19.15.10.05 Column Footings	18.00 EA	3,340	330	180	310	40	4,210	233.67
19.15.10.10 Exterior Turndown	382.00 LF	5,630	560	310	520	70	7,100	18.58
19.15.10.15 6" Floor Slab on Grade	4096.00 SF	16,120	1,610	890	1,490	200	20,310	4.96
19.15.10.20 Concrete Entrance Ramp	780.00 SF	4,920	490	270	450	60	6,200	7.95
TOTAL CONCRETE	1.00 EA	30,020	3,000	1,650	2,770	370	37,820	37821.42
19.15.15 METALS								
19.15.15.05 Mezzanine Framing for 4" S	1456.00 SF	12,820	1,280	710	1,180	160	16,150	11.09
19.15.15.10 Mezzanine Railing	45.00 LF	880	90	50	80	10	1,110	24.61
19.15.15.15 Stairs and Ladders	1.00 EA	2,350	240	130	220	30	2,960	2962.13
TOTAL METALS	1.00 EA	16,050	1,600	880	1,480	200	20,220	20220.80
19.15.20 WOOD & PLASTICS								
19.15.20.05 Finish and Rough Carpentry	9000.00 SF	23,480	2,350	1,290	2,170	290	29,590	3.29
TOTAL WOOD & PLASTICS	1.00 EA	23,480	2,350	1,290	2,170	290	29,590	29586.57
19.15.25 THERMAL & MOISTURE PROOFING								
19.15.25.05 Insulation, (Batts), Walls	3100.00 SF	1,510	150	80	140	20	1,900	0.61
19.15.25.10 Insulation, Roof, R20	1400.00 SF	1,300	130	70	120	20	1,640	1.17
TOTAL THERMAL & MOISTURE PROOFIN	1.00 EA	2,810	280	150	260	40	3,550	3545.96
19.15.30 DOORS AND WINDOWS								
19.15.30.05 Doors, Frames and Hardware	21.00 EA	24,610	2,460	1,350	2,270	310	31,000	1476.29
19.15.30.10 Windows	7.00 EA	4,940	490	270	460	60	6,230	889.37
TOTAL DOORS AND WINDOWS	1.00 EA	29,550	2,950	1,630	2,730	370	37,230	37227.73
19.15.35 FINISHES								
19.15.35.05 Dry Wall	1450.00 SF	26,060	2,610	1,430	2,410	330	32,830	22.64
19.15.35.10 Painting and Finishing	4000.00 SF	1,740	170	100	160	20	2,190	0.55
19.15.35.15 Miscellaneous Painting		2,180	220	120	200	30	2,750	
19.15.35.20 Vinyl Composition Tile	1460.00 SF	3,310	330	180	310	40	4,170	2.85

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.15.35.25 Rubber Base	1600.00	LF	1,680	170	90	160	20	2,120	1.33
19.15.35.30 Accoustical Tile	1450.00	SF	3,480	350	190	320	40	4,390	3.03
TOTAL FINISHES	1.00	EA	38,460	3,850	2,120	3,550	480	48,450	48451.42
19.15.40 SPECIALTIES									
19.15.40.05 Specialties, Toilet Rooms	25.00	EA	3,080	310	170	280	40	3,870	154.99
19.15.40.10 Fire Extinguishers	8.00	EA	1,780	180	100	160	20	2,240	280.61
TOTAL SPECIALTIES	1.00	EA	4,860	490	270	450	60	6,120	6119.70
19.15.45 SPECIAL CONSTRUCTION									
19.15.45.05 Pre-Engineered Bldg W/Sidi	4096.00	SF	33,410	3,340	1,840	3,090	420	42,100	10.28
19.15.45.10 Pre-Engineered Bldg Open	3999.00	SF	19,580	1,960	1,080	1,810	240	24,670	6.17
TOTAL SPECIAL CONSTRUCTION	1.00	EA	52,990	5,300	2,910	4,900	660	66,770	66766.64
19.15.50 MECHANICAL									
19.15.50.05 HVAC	1460.00	SF	7,880	790	430	730	100	9,930	6.80
19.15.50.10 Htg/Vent. Shop	2572.00	SF	3,660	370	200	340	50	4,610	1.79
19.15.50.15 Plumbing	4032.00	SF	8,670	870	480	800	110	10,920	2.71
TOTAL MECHANICAL	1.00	EA	20,210	2,020	1,110	1,870	250	25,460	25457.80
19.15.55 ELECTRICAL									
19.15.55.05 Service & Distribution Equ	3875.00	SF	11,190	1,120	620	1,030	140	14,090	3.64
19.15.55.10 Lighting Systems	3875.00	SF	19,320	1,930	1,060	1,780	240	24,340	6.28
19.15.55.15 Lighting Systems - Open	3500.00	SF	10,410	1,040	570	960	130	13,120	3.75
19.15.55.20 Wiring Devices	3875.00	SF	7,250	730	400	670	90	9,140	2.36
19.15.55.25 Wiring Devices - Open	3500.00	SF	710	70	40	70	10	890	0.25
19.15.55.30 Equipment Connections	3875.00	SF	2,500	250	140	230	30	3,150	0.81
19.15.55.40 Basic Materials	3825.00	SF	5,570	560	310	510	70	7,010	1.83
19.15.55.50 Transient Suppressor Syste			11,870	1,190	650	1,100	150	14,950	
19.15.55.55 Fire Alarm System			6,180	620	340	570	80	7,790	
19.15.55.60 Lightning Protection Syste			5,150	520	280	480	60	6,490	
19.15.55.65 Universal Wiring System			7,730	770	420	710	100	9,730	
19.15.55.70 Ground Ring System			4,740	470	260	440	60	5,980	
TOTAL ELECTRICAL	1.00	EA	92,610	9,260	5,090	8,560	1,160	116,670	116671.21
TOTAL MAINTENANCE BUILDING	1.00	EA	338,270	33,830	18,600	31,260	4,220	426,180	426177.20

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	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
19.20 Radio House Structure									
19.20. 1 Radio Tower Structure	1.00	EA	14,590	1,460	800	1,350	180	18,380	18382.60
19.20. 2 Radio Tower Concrete Base	20.00	CY	3,480	350	190	320	40	4,380	219.17
19.20. 3 Electrical Control Building									
19.20. 3. 1 Conc Slab for Elec Control	22.00	CY	5,270	530	290	490	70	6,640	301.61
19.20. 3. 2 Electrical Control Buildin	1.00	EA	44,650	4,470	2,460	4,130	560	56,260	56258.41
19.20. 3. 3 Unload and Place @ Job Sit	1.00	EA	3,350	330	180	310	40	4,220	4217.53
TOTAL Electrical Control Buildin	1.00	EA	53,270	5,330	2,930	4,920	660	67,110	67111.35
19.20. 4 Electrical									
19.20. 4. 1 Incoming System	1.00	EA	24,510	2,450	1,350	2,270	310	30,880	30884.12
19.20. 4. 2 Service Entrance	1.00	EA	3,150	310	170	290	40	3,960	3963.31
19.20. 4. 3 Power and Lighting Distrib	1.00	EA	2,780	280	150	260	30	3,500	3504.96
19.20. 4. 4 19" Equipment Cabinets, NE	3.00	EA	36,730	3,670	2,020	3,390	460	46,270	15423.06
19.20. 4. 5 Fiber Optic Provisions	1.00	EA	2,630	260	140	240	30	3,320	3318.70
19.20. 4. 6 Grounding Counterpoise	1.00	EA	2,480	250	140	230	30	3,130	3127.14
TOTAL Electrical	1.00	EA	72,280	7,230	3,980	6,680	900	91,070	91067.39
19.20. 5 Generator & Auto Transfer Sw									
19.20. 5. 1 Generator	1.00	EA	13,070	1,310	720	1,210	160	16,470	16465.48
19.20. 5. 2 Automatic Transfer Switch	1.00	EA	5,190	520	290	480	60	6,540	6541.34
TOTAL Generator & Auto Transfer	1.00	EA	18,260	1,830	1,000	1,690	230	23,010	23006.82
TOTAL Radio House Structure	1.00	EA	161,880	16,190	8,900	14,960	2,020	203,950	203951.53
19.25 Irrigation Sytem Controls/Comm									
19.25.10 Fiber Optic Backbone	1.00	EA	1,075,660	107,570	59,160	99,390	13,420	1,355,200	1355201
19.25.20 Radio Link Component	1.00	EA	397,160	39,720	21,840	36,700	4,950	500,370	500371.56
TOTAL Irrigation Sytem Controls/	1.00	EA	1,472,820	147,280	81,010	136,090	18,370	1,855,570	1855572
TOTAL Buildings.Grounds, & Utili	1.00	EA	3,652,460	365,250	200,890	337,490	45,560	4,601,640	4601643
30 Planning, Engineering and Design	217764890	DOL	21,776,490	0	0	0	0	21,776,490	0.10
31 Construction Management	217764890	DOL	13,065,890	0	0	0	0	13,065,890	0.06
TOTAL Bayou Meto Feas.Est.28 Apr	1.00	EA	292,013,660	16717190	9,194,450	15446680	2,085,300	335,457,280	335457284
Contingency							30,312,870		

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	QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
TOTAL INCL OWNER COSTS							365,770,160	

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ERROR REPORT

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ERROR PAGE 1

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No errors detected...

* * * END OF ERROR REPORT * * *

LABOR ID: BMLABR EQUIP ID: NEWEQ9

Currency in DOLLARS

CREW ID: BMCRWA UPB ID: BMUP11

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Bayou Meto Prairie Wetland Restoration (2000 Acres)							
Project Cost Estimate Feb 2005							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	2,000	AC	\$ 900	\$ 1,800,000	\$ 450,000	\$ 2,250,000	Conservation Easement.
Acquisition - Ownerships	10	EA	\$ 4,300	\$ 43,000	\$ 10,750	\$ 54,000	One ownership tract per 200 acres.
TOTAL 01 LANDS AND DAMAGES	1	LS		\$ 1,843,000	\$ 460,750	\$ 2,304,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 20,000	\$ 20,000	\$ 5,000	\$ 25,000	Assume one contract.
Clearing	2,000	AC	\$ -	\$ -	\$ -	\$ -	Assume cultivated farmland.
Excavation, Scar	442,000	CY	\$ 1.00	\$ 442,000	\$ 111,000	\$ 553,000	There are 100 - 20 acre tracts in 2000 acres. Assume half of these tracks or 50 scars are constructed on the 2000 acres. Material excavated to create the 830' long scar will be deposited in eight mounds (62' base dia and 3' height) on either side of the scar. Average haul distance will be about 200 FT.
Excavation, Pothole	395,750	CY	\$ 1.00	\$ 396,000	\$ 99,000	\$ 495,000	There are 100 - 20 acre tracts in 2000 acres. Assume half of these tracks or 50 potholes are constructed on the 2000 acres. Material excavated to create the 470' dia pothole will be deposited in eight mounds (62' base dia and 3' height) equally spaced around the perimeter of the pothole. Average haul distance will be about 200 FT.
Planting	2,000	AC	\$ 200	\$ 400,000	\$ 100,000	\$ 500,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES	2,000	AC	\$ 629	\$ 1,258,000	\$ 315,000	\$ 1,573,000	

30 PLANNING, E&D	1	LS	15.0%	\$	236,000	\$	59,000	\$	295,000	E&D for design based upon shown percent of construction accounts. Includes \$150,000 for Cultural Resource Surveys.
TOTAL 30 PLANNING, E&D				\$	236,000	\$	59,000	\$	295,000	
31 CONSTRUCTION MANAGEMENT	1	LS	8.0%	\$	126,000	\$	32,000	\$	158,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$	126,000	\$	32,000	\$	158,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$	3,463,000	\$	866,750	\$	4,330,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%				25.0%		\$4,330,000	
PROJECT UNIT COST	2,000	AC	\$ 2,165						\$4,330,000	Bottom line cost per acre with contingencies.

Bayou Metro NER Features													
Priority	Feature Number	Name	Work Item	Definition	Work Category	Length (Feet)	Excavation (cu yds)	Clearing = ROW (Acres)	Turfing (Acres)	Assumption factor (eq RFT)	Assumptions	Feature Number	
3 - High	zero	Bubbling Slough Levee	Levee Degrading		1 - Existing Channel Cleanout and Clearing 2 - New Channel Construction and Clearing 3 - Levee Degrading	5571	9285	6	8	45.0	3' height, 6' top width, 3:1 on 1V Slope, 50' Clearing	zero	
	2	Bubbling Slough	Ditching	Improve drainage, restore hydrology, and reclaim dead stick area		2	12002	10688	14	9	24.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	1
	3	Five Forks Bayou	Channel Cleanout and clearing	Improve drainage, restore hydrology, and reduce flooding of adjacent landowners		1	25915	69107	59	40	72.0	15 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	2
	3	Government Slough	Channel Cleanout and clearing	Improve drainage, restore hydrology for habitat improvement		1	11676	12108	20	15	28.0	8 BW, 2' depth, 3:1 on 1V Slope, 75' clearing	3
2 - Moderate	4	Government Slough	Ditching	Improve drainage, restore hydrology, and reclaim dead stick area	2	22159	18055	25	16	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	4	
	5	Government Slough	Clear Noxious Woody Vegetation	N/A									5
1 - Low Impact	6	Government Slough & Bubbling Slough	Replant desirable trees	N/A								6	
	1	Brushy Slough	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	16102	13120	18	12	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	7	
	1	Beaver Dam Slough	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	13445	28384	23	15	57.0	10 BW, 3' depth, 3:1 on 1V Slope, 75' clearing	8	
	3	Little Bayou - behind Halowall	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	14177	45881	33	20	87.0	20 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	9	
	2	Little Bayou - between Salt Ditch and Upper Valler	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	2375	6333	5	4	72.0	15 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	10	
	1	Halowall Reservoir perimeter ditch	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	21120	18773	24	16	24.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	11	
	1	Tipton Ditch	Channel Cleanout and clearing	Improve drainage, restore hydrology, and reduce flooding of adjacent landowners	1	19774	20506	34	25	28.0	8 BW, 2' depth, 3:1 on 1V Slope, 75' clearing	12	
	1	Hurricane Slough - behind Halowall	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	17875	14565	21	13	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	13	
	3	Marshall Ditch	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	19006	15486	22	14	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	14	
	3	NE corner of area, Section 7, T4S, R5W	Ditching	Improve drainage, restore hydrology for habitat improvement	2	7453	6073	9	5	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	15	
	1	Bear Bayou - above power line - Rev 4 Jan 05	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	12109	16482	21	13	36.8	20 BW, 1.5' depth, 3:1 on 1V Slope, 75' clearing	226	
	3	Marshall Ditch	Levee Degrading	Improve drainage & restore hydrology	3	7459	12432	9	9	45.0	3' height, 6' top width, 3:1 on 1V Slope, 50' Clearing	227	
	18	N/A										228	
	2	Bear Bayou Levee & Marshall Ditch	Ditching	Improve drainage & restore hydrology	2	9101	6741	10	7	20.0	4 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	229	
	1	Newton Bayou	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	8583	6994	10	6	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	230	
	3	West Bayou	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	9738	7935	11	7	22.0	6 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	231	
	3	Little Bayou - below Lower Valler	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	24626	65669	57	38	72.0	15 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	232	
	1	Buckingham Flats Impoundment	Ditching	Improve flooding, drainage and hydrology restoration	2	18706	13856	21	15	20.0	4 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	233	
1	Ditch West of Gray's Reservoir	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	6500	4889	8	5	20.0	4 BW, 2' depth, 3:1 on 1V Slope, 50' clearing	234		
3	Long Pond Slough	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	20935	44196	36	23	57.0	10 BW, 3' depth, 3:1 on 1V Slope, 75' clearing	235		
1	Castor Bayou	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	3829	3971	7	5	28.0	8 BW, 2' depth, 3:1 on 1V Slope, 75' clearing	236		
2	Walbaskee Bayou on West side of Salt Ditch	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	20311	54163	47	31	72.0	15 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	237		
1	Walbaskee Bayou on East side of Salt Ditch	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	4130	8719	7	4	57.0	10 BW, 3' depth, 3:1 on 1V Slope, 75' clearing	238		
3	Cross Bayou in Government Impoundment	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	16014	33807	28	17	57.0	10 BW, 3' depth, 3:1 on 1V Slope, 75' clearing	239		
3	Swan Lake Levee	Levee Degrading	Improve drainage & restore hydrology	3	2616	4360	3	3	45.0	3' height, 6' top width, 3:1 on 1V Slope, 50' Clearing	240		
3	Little Bayou - MWK		N/A									241	
3	Little Bayou - Ditching - MWK		N/A									242	
3	Salt Ditch Water Control Structure		N/A									243	
3	Dry Bayou Ditch Water Control Structure		N/A									244	
2	East of Cannon Break Water Control Structure		N/A									245	
3	Salt Ditch from Hwy 79 to Lower Valler	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	6488	20826	149	92	87.0	20 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	246		
1	Dry Bayou from Big Bayou Metro to Salt Ditch	Channel Cleanout and clearing	Improve drainage and reduce flooding of adjacent landowners	1	10514	28037	24	16	72.0	15 BW, 3' depth, 3:1 on 1V Slope, 100' clearing	247		
3	Temple Island	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	2419	5107	4	3	57.0	10 BW, 3' depth, 3:1 on 1V Slope, 75' clearing	248		
Jan 05 Revision											Total		
1	16	Bear Bayou - above power line	Channel Cleanout and clearing	Improve drainage & restore hydrology	1	12109	16482	21	13	36.8	20 BW, 1.5' depth, 3:1 on 1V Slope, 75' clearing	1	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Bubbling Slough Levee (Feature No.= 0)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	6	AC	\$ 800	\$ 4,800	\$ 1,200	\$ 6,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
						Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	6	AC	\$ 1,133	\$ 6,800	\$ 1,700	\$ 9,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	6	AC	\$ 1,400	\$ 8,000	\$ 2,000	\$ 10,000
						Assume one contract.
Excavation	9,285	CY	\$ 1	\$ 9,000	\$ 2,000	\$ 11,000
						Levee Degrading. Shoving material into adjacent borrow area. 3' height, 6' top width, 3H on 1V Slope, 50' Clearing
Turfing	6	AC	\$ 500	\$ 3,000	\$ 1,000	\$ 4,000
						Rought Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 28,000	\$ 7,000	\$ 35,000
30 PLANNING, E&D	1	LS	15.0%	\$ 5,000	\$ 1,000	\$ 6,000
				\$ 5,000	\$ 1,000	\$ 6,000
TOTAL 30 PLANNING, E&D				\$ 5,000	\$ 1,000	\$ 6,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000
				\$ 4,000	\$ 1,000	\$ 5,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000
						Construction Management Based upon shown percent construction accounts.
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 43,800	\$ 10,700	\$ 55,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		24.4%	\$ 55,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Bubbling Slough (Feature No.= 1)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	14	AC	\$ 800	\$ 11,200	\$ 2,800	\$ 14,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	14	AC	\$ 943	\$ 13,200	\$ 3,300	\$ 17,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	14	AC	\$ 1,400	\$ 20,000	\$ 5,000	\$ 25,000	Heavy Clearing, Piling and Burning
Excavation	10,668	CY	\$ 1.00	\$ 11,000	\$ 3,000	\$ 14,000	Ditching to Improve drainage, restore hydrology, and reclaim dead stick area. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing
Turfing	9	AC	\$ 500	\$ 5,000	\$ 1,000	\$ 6,000	Roughed Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 44,000	\$ 11,000	\$ 55,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 8,000	\$ 2,000	\$ 10,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 8,000	\$ 2,000	\$ 10,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 6,000	\$ 2,000	\$ 8,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 6,000	\$ 2,000	\$ 8,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 71,200	\$ 18,300	\$ 90,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.7%	\$90,000	

OPERATION AND MAINTENANCE COST							
Bubbling Slough (Feature No.= 1)							
ITEM DESCRIPTION	DESIGN QUANTITY	UNIT	UNIT PRICE	PERCENT OF DESIGN TO REHAB	REHAB QUANTITY	COST	REHAB INTERVAL IN YRS
Clearing and Cleanout							
Clearing	14	AC	\$ 980	100%	14	\$ 13,720	
Cleanout	10,668	CY	\$ 1.25	50%	5334	\$ 6,668	Unit price includes some for mob/demob.
Total Clearing and Cleanout						\$ 20,388	10
Beaver Control	1	LS	\$ 2,000			\$ 2,000	1

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Five Forks Bayou (Feature No.= 2)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	59	AC	\$ 800	\$ 47,200	\$ 11,800	\$ 59,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES	59	AC	\$ 834	\$ 49,200	\$ 12,300	\$ 62,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	59	AC	\$ 1,400	\$ 83,000	\$ 21,000	\$ 104,000
Excavation	69,107	CY	\$ 1.00	\$ 69,000	\$ 17,000	\$ 86,000
Turfing	40	AC	\$ 500	\$ 20,000	\$ 5,000	\$ 25,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 180,000	\$ 45,000	\$ 225,000
30 PLANNING, E&D	1	LS	15.0%	\$ 34,000	\$ 9,000	\$ 43,000
TOTAL 30 PLANNING, E&D				\$ 34,000	\$ 9,000	\$ 43,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 23,000	\$ 6,000	\$ 29,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 23,000	\$ 6,000	\$ 29,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 286,200	\$ 72,300	\$ 359,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.3%	\$359,000

OPERATION AND MAINTENANCE COST

Five Forks Bayou (Feature No.= 2)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Government Slough Cleanout (Feature No.= 3)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	20	AC	\$ 800	\$ 16,000	\$ 4,000	\$ 20,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES	20	AC	\$ 900	\$ 18,000	\$ 4,500	\$ 23,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	20	AC	\$ 1,400	\$ 28,000	\$ 7,000	\$ 35,000
Excavation	12,108	CY	\$ 1.00	\$ 12,000	\$ 3,000	\$ 15,000
Turfing	15	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 56,000	\$ 14,000	\$ 70,000
30 PLANNING, E&D	1	LS	15.0%	\$ 11,000	\$ 3,000	\$ 14,000
TOTAL 30 PLANNING, E&D				\$ 11,000	\$ 3,000	\$ 14,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 7,000	\$ 2,000	\$ 9,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 7,000	\$ 2,000	\$ 9,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 92,000	\$ 23,500	\$ 116,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.5%	\$116,000

OPERATION AND MAINTENANCE COST

Government Slough Cleanout (Feature No.= 3)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Government Slough Ditching (Feature No.= 4)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	25	AC	\$ 800	\$ 20,000	\$ 5,000	\$ 25,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	25	AC	\$ 880	\$ 22,000	\$ 5,500	\$ 28,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	25	AC	\$ 1,400	\$ 35,000	\$ 9,000	\$ 44,000	Heavy Clearing, Piling and Burning
Excavation	18,055	CY	\$ 1.00	\$ 18,000	\$ 5,000	\$ 23,000	Improve drainage, restore hydrology, and reclaim dead stick area. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.
Turfing	16	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000	Rought Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 69,000	\$ 18,000	\$ 87,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 13,000	\$ 3,000	\$ 16,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 13,000	\$ 3,000	\$ 16,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 9,000	\$ 2,000	\$ 11,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 9,000	\$ 2,000	\$ 11,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 113,000	\$ 28,500	\$ 142,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.2%	\$ 142,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Government Slough Clear Noxious Woody Vegetation-Tree Planting (Feature No.= 5 & 6)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	235	AC	\$ 800	\$ 188,000	\$ 47,000	\$ 235,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES	235	AC	\$ 809	\$ 190,000	\$ 47,500	\$ 238,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	235	AC	\$ 400	\$ 94,000	\$ 24,000	\$ 118,000
Tree Planting, Red Oaks 18"	235	AC	\$ 120.00	\$ 28,000	\$ 7,000	\$ 35,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 130,000	\$ 33,000	\$ 163,000
30 PLANNING, E&D	1	LS	10.0%	\$ 16,000	\$ 4,000	\$ 20,000
TOTAL 30 PLANNING, E&D				\$ 16,000	\$ 4,000	\$ 20,000
31 CONSTRUCTION MANAGEMENT	1	LS	8.0%	\$ 13,000	\$ 3,000	\$ 16,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 13,000	\$ 3,000	\$ 16,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 349,000	\$ 87,500	\$ 437,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.1%	\$437,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT

Brushy Slough (Feature No.= 7)

Project Cost Estimate Oct 2004

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	18	AC	\$ 800	\$ 14,400	\$ 3,600	\$ 18,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	18	AC	\$ 911	\$ 16,400	\$ 4,100	\$ 21,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	18	AC	\$ 1,400	\$ 25,000	\$ 6,000	\$ 31,000	Heavy Clearing, Piling and Burning
Excavation	13,120	CY	\$ 1.00	\$ 13,000	\$ 3,000	\$ 16,000	Improve drainage, restore hydrology. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.
Turfing	12	AC	\$ 500	\$ 6,000	\$ 2,000	\$ 8,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 52,000	\$ 13,000	\$ 65,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 10,000	\$ 3,000	\$ 13,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 10,000	\$ 3,000	\$ 13,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 7,000	\$ 2,000	\$ 9,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 7,000	\$ 2,000	\$ 9,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 85,400	\$ 22,100	\$ 108,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.9%	\$ 108,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Beaver Dam Slough (Feature No.= 8)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	23	AC	\$ 800	\$ 18,400	\$ 4,600	\$ 23,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	23	AC	\$ 887	\$ 20,400	\$ 5,100	\$ 26,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	23	AC	\$ 1,400	\$ 32,000	\$ 8,000	\$ 40,000
Assume one contract.						
Heavy Clearing, Piling and Burning						
Excavation	28,384	CY	\$ 1.00	\$ 28,000	\$ 7,000	\$ 35,000
Improve drainage, restore hydrology. 10' BW, 3' depth, 3H on 1V Slope, 75' clearing.						
Turfing	15	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000
Rought Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 76,000	\$ 19,000	\$ 95,000
30 PLANNING, E&D	1	LS	15.0%	\$ 14,000	\$ 4,000	\$ 18,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 14,000	\$ 4,000	\$ 18,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 10,000	\$ 3,000	\$ 13,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 10,000	\$ 3,000	\$ 13,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 120,400	\$ 31,100	\$ 152,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.8%	\$152,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Little Bayou - behind Halowell (Feature No.= 9)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	33	AC	\$ 800	\$ 26,400	\$ 6,600	\$ 33,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	33	AC	\$ 861	\$ 28,400	\$ 7,100	\$ 36,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	33	AC	\$ 1,400	\$ 46,000	\$ 12,000	\$ 58,000
Assume one contract.						
Excavation	45,681	CY	\$ 1.00	\$ 46,000	\$ 12,000	\$ 58,000
Improve drainage, restore hydrology. 20' BW, 3' depth, 3H on 1V Slope, 100' clearing.						
Turfing	20	AC	\$ 500	\$ 10,000	\$ 3,000	\$ 13,000
Rought Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 110,000	\$ 29,000	\$ 139,000
30 PLANNING, E&D	1	LS	15.0%	\$ 21,000	\$ 5,000	\$ 26,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 21,000	\$ 5,000	\$ 26,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 14,000	\$ 4,000	\$ 18,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 14,000	\$ 4,000	\$ 18,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 173,400	\$ 45,100	\$ 219,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		26.0%	\$219,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Little Bayou - between Salt Ditch and Upper Vallier (Feature No.= 10)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	5	AC	\$ 800	\$ 4,000	\$ 1,000	\$ 5,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
						Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	5	AC	\$ 1,200	\$ 6,000	\$ 1,500	\$ 8,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	5	AC	\$ 1,400	\$ 7,000	\$ 2,000	\$ 9,000
						Assume one contract.
						Heavy Clearing, Piling and Burning
Excavation	6,333	CY	\$ 1.00	\$ 6,000	\$ 2,000	\$ 8,000
						Improve drainage, restore hydrology. 20' BW, 3' depth, 3H on 1V Slope, 100' clearing.
Turfing	4	AC	\$ 500	\$ 2,000	\$ 1,000	\$ 3,000
						Rought Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 23,000	\$ 7,000	\$ 30,000
30 PLANNING, E&D	1	LS	15.0%	\$ 5,000	\$ 1,000	\$ 6,000
						E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 5,000	\$ 1,000	\$ 6,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 3,000	\$ 1,000	\$ 4,000
						Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 3,000	\$ 1,000	\$ 4,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 37,000	\$ 10,500	\$ 48,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		28.4%	\$48,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Halowell Reservoir Perimeter Ditch (Feature No.= 11)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate							
Acquisition	24	AC	\$ 800	\$ 19,200	\$ 4,800	\$ 24,000	
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	24	AC	\$ 883	\$ 21,200	\$ 5,300	\$ 27,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	24	AC	\$ 1,400	\$ 34,000	\$ 9,000	\$ 43,000	Heavy Clearing, Piling and Burning
Excavation	18,773	CY	\$ 1.00	\$ 19,000	\$ 5,000	\$ 24,000	Improve drainage and reduce flooding of adjacent landowners. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.
Turfing	16	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 69,000	\$ 18,000	\$ 87,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 13,000	\$ 3,000	\$ 16,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 13,000	\$ 3,000	\$ 16,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 9,000	\$ 2,000	\$ 11,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 9,000	\$ 2,000	\$ 11,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 112,200	\$ 28,300	\$ 141,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.2%	\$ 141,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Tipton Ditch (Feature No.= 12)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	34	AC	\$ 800	\$ 27,200	\$ 6,800	\$ 34,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	34	AC	\$ 859	\$ 29,200	\$ 7,300	\$ 37,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	34	AC	\$ 1,400	\$ 48,000	\$ 12,000	\$ 60,000	Heavy Clearing, Piling and Burning
Excavation	20,506	CY	\$ 1.00	\$ 21,000	\$ 5,000	\$ 26,000	Improve drainage and reduce flooding of adjacent landowners. 8' BW, 2' depth, 3H on 1V Slope, 75' clearing.
Turfing	25	AC	\$ 500	\$ 13,000	\$ 3,000	\$ 16,000	Rought Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 90,000	\$ 22,000	\$ 112,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 17,000	\$ 4,000	\$ 21,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 17,000	\$ 4,000	\$ 21,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 11,000	\$ 3,000	\$ 14,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 11,000	\$ 3,000	\$ 14,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 147,200	\$ 36,300	\$ 184,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		24.7%	\$184,000	

OPERATION AND MAINTENANCE COST

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT									
Hurricane Slough - behind Halowell (Feature No.= 13)									
Project Cost Estimate Oct 2004									
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS		
01 LANDS AND DAMAGES									
Real Estate	21	AC	\$ 800	\$ 16,800	\$ 4,200	\$ 21,000			
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.		
TOTAL 01 LANDS AND DAMAGES	21	AC	\$ 895	\$ 18,800	\$ 4,700	\$ 24,000			
TOTAL 02 RELOCATIONS									
	1	LS	\$ -	\$ -	\$ -	\$ -			
06 WILDLIFE FACILITIES AND SANCTUARIES									
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.		
Clearing	21	AC	\$ 1,400	\$ 29,000	\$ 7,000	\$ 36,000	Heavy Clearing, Piling and Burning		
Excavation	14,565	CY	\$ 1.00	\$ 15,000	\$ 4,000	\$ 19,000	Improve drainage & restore hydrology. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.		
Turfing	13	AC	\$ 500	\$ 7,000	\$ 2,000	\$ 9,000	Rought Dress, Fert, Seeding.		
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES									
				\$ 59,000	\$ 15,000	\$ 74,000			
30 PLANNING, E&D	1	LS	15.0%	\$ 11,000	\$ 3,000	\$ 14,000	E&D for design based upon shown percent of construction accounts.		
TOTAL 30 PLANNING, E&D									
				\$ 11,000	\$ 3,000	\$ 14,000			
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 7,000	\$ 2,000	\$ 9,000	Construction Management Based upon shown percent construction accounts.		
TOTAL 31 CONSTRUCTION MANAGEMENT									
				\$ 7,000	\$ 2,000	\$ 9,000			
TOTAL PROJECT COSTS (Oct 04)									
	1	LS		\$ 95,800	\$ 24,700	\$ 121,000			
TOTAL PROJECT COSTS (Oct 04)									
	1	LS	100.0%		25.8%	\$ 121,000			

OPERATION AND MAINTENANCE COST

Hurricane Slough - behind Halowell (Feature No.= 13)

[illegible]

Jerry R. Welch, CCC.
Lead Cost Engineer
Cost Engineering and

Bayou Meto 39 Env Alter Rev 23 Feb 05.xls
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US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Marshall Ditch (Feature No.= 14)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	22	AC	\$ 800	\$ 17,600	\$ 4,400	\$ 22,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	22	AC	\$ 891	\$ 19,600	\$ 4,900	\$ 25,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	22	AC	\$ 1,400	\$ 31,000	\$ 8,000	\$ 39,000
Excavation	15,486	CY	\$ 1.00	\$ 15,000	\$ 4,000	\$ 19,000
Turfing	14	AC	\$ 500	\$ 7,000	\$ 2,000	\$ 9,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 61,000	\$ 16,000	\$ 77,000
30 PLANNING, E&D	1	LS	15.0%	\$ 12,000	\$ 3,000	\$ 15,000
TOTAL 30 PLANNING, E&D						
				\$ 12,000	\$ 3,000	\$ 15,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 8,000	\$ 2,000	\$ 10,000
TOTAL 31 CONSTRUCTION MANAGEMENT						
				\$ 8,000	\$ 2,000	\$ 10,000
TOTAL PROJECT COSTS (Oct 04)						
	1	LS		\$ 100,600	\$ 25,900	\$ 127,000
TOTAL PROJECT COSTS (Oct 04)						
	1	LS	100.0%		25.7%	\$127,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT									
Ditching NE Corner Sec 7, T4S, R6W (Feature No.= 15)									
Project Cost Estimate Oct 2004									
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS		
01 LANDS AND DAMAGES									
Real Estate	9	AC	\$ 800	\$ 7,200	\$ 1,800	\$ 9,000			
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.		
TOTAL 01 LANDS AND DAMAGES	9	AC	\$ 1,022	\$ 9,200	\$ 2,300	\$ 12,000			
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -			
06 WILDLIFE FACILITIES AND SANCTUARIES									
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.		
Clearing	9	AC	\$ 1,400	\$ 13,000	\$ 3,000	\$ 16,000	Heavy Clearing, Piling and Burning		
Excavation	6,073	CY	\$ 1.00	\$ 6,000	\$ 2,000	\$ 8,000	Improve drainage, restore hydrology for habitat improvement. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.		
Turfing	5	AC	\$ 500	\$ 3,000	\$ 1,000	\$ 4,000	Rought Dress, Fert, Seeding.		
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES									
				\$ 30,000	\$ 8,000	\$ 38,000			
30 PLANNING, E&D	1	LS	15.0%	\$ 6,000	\$ 2,000	\$ 8,000	E&D for design based upon shown percent of construction accounts.		
TOTAL 30 PLANNING, E&D				\$ 6,000	\$ 2,000	\$ 8,000			
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000	Construction Management Based upon shown percent construction accounts.		
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000			
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 49,200	\$ 13,300	\$ 63,000			
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		27.0%	\$ 63,000			

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Bear Bayou - above power line (Feature No.= 16)						
Project Cost Estimate Jan 2005 Revision						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	21	AC	\$ 800	\$ 16,800	\$ 4,200	\$ 21,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	21	AC	\$ 895	\$ 18,800	\$ 4,700	\$ 24,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	21	AC	\$ 1,400	\$ 29,000	\$ 7,000	\$ 36,000
Excavation	16,482	CY	\$ 1.00	\$ 16,000	\$ 4,000	\$ 20,000
Turfing	13	AC	\$ 500	\$ 7,000	\$ 2,000	\$ 9,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 60,000	\$ 15,000	\$ 75,000
30 PLANNING, E&D	1	LS	15.0%	\$ 11,000	\$ 3,000	\$ 14,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 11,000	\$ 3,000	\$ 14,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 8,000	\$ 2,000	\$ 10,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 8,000	\$ 2,000	\$ 10,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 97,800	\$ 24,700	\$ 123,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.3%	\$123,000

OPERATION AND MAINTENANCE COST

Bear Bayou - above power line (Feature No.= 16)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Marshall Ditch Levee Degrading (Feature No.= 0)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	9	AC	\$ 800	\$ 7,200	\$ 1,800	\$ 9,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
						Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	9	AC	\$ 1,022	\$ 9,200	\$ 2,300	\$ 12,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	6	AC	\$ 1,400	\$ 8,000	\$ 2,000	\$ 10,000
						Assume one contract.
Excavation	12,432	CY	\$ 1	\$ 12,000	\$ 3,000	\$ 15,000
						Levee Degrading. Shoving material into adjacent borrow area. 3' height, 6' top width, 3H on 1V Slope, 50' Clearing
Turfing	9	AC	\$ 500	\$ 5,000	\$ 1,000	\$ 6,000
						Rought Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 33,000	\$ 8,000	\$ 41,000
30 PLANNING, E&D	1	LS	15.0%	\$ 6,000	\$ 2,000	\$ 8,000
						E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 6,000	\$ 2,000	\$ 8,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000
						Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 52,200	\$ 13,300	\$ 66,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.5%	\$ 66,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Bear Bayou Levee & Marshall Ditch (Feature No.= 19)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	10	AC	\$ 800	\$ 8,000	\$ 2,000	\$ 10,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES	10	AC	\$ 1,000	\$ 10,000	\$ 2,500	\$ 13,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	10	AC	\$ 1,400	\$ 14,000	\$ 4,000	\$ 18,000
Excavation	6,741	CY	\$ 1.00	\$ 7,000	\$ 2,000	\$ 9,000
Turfing	7	AC	\$ 500	\$ 4,000	\$ 1,000	\$ 5,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 33,000	\$ 9,000	\$ 42,000
30 PLANNING, E&D	1	LS	15.0%	\$ 6,000	\$ 2,000	\$ 8,000
TOTAL 30 PLANNING, E&D				\$ 6,000	\$ 2,000	\$ 8,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 53,000	\$ 14,500	\$ 68,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		27.4%	\$ 68,000

OPERATION AND MAINTENANCE COST

Bear Bayou Levee & Marshall Ditch (Feature No.= 19)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Newton Bayou (Feature No.= 20)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	10	AC	\$ 800	\$ 8,000	\$ 2,000	\$ 10,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	10	AC	\$ 1,000	\$ 10,000	\$ 2,500	\$ 13,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	10	AC	\$ 1,400	\$ 14,000	\$ 4,000	\$ 18,000	Heavy Clearing, Piling and Burning
Excavation	6,994	CY	\$ 1.00	\$ 7,000	\$ 2,000	\$ 9,000	Improve drainage, restore hydrology. 6' BW, 2' depth, 3H on 1V Slope, 50' clearing.
Turfing	6	AC	\$ 500	\$ 3,000	\$ 1,000	\$ 4,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 32,000	\$ 9,000	\$ 41,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 6,000	\$ 2,000	\$ 8,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 6,000	\$ 2,000	\$ 8,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 52,000	\$ 14,500	\$ 67,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		27.9%	\$ 67,000	

OPERATION AND MAINTENANCE COST

Newton Bayou (Feature No.= 20)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
West Bayou (Feature No.= 21)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	11	AC	\$ 800	\$ 8,800	\$ 2,200	\$ 11,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	11	AC	\$ 982	\$ 10,800	\$ 2,700	\$ 14,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	11	AC	\$ 1,400	\$ 15,000	\$ 4,000	\$ 19,000	Heavy Clearing, Piling and Burning
Excavation	7,935	CY	\$ 1.00	\$ 8,000	\$ 2,000	\$ 10,000	Improve drainage and restore hydrology, 6' BW, 2' depth, 3H on 1V Slope, 50' clearing
Turfing	7	AC	\$ 500	\$ 4,000	\$ 1,000	\$ 5,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 35,000	\$ 9,000	\$ 44,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 7,000	\$ 2,000	\$ 9,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 7,000	\$ 2,000	\$ 9,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 4,000	\$ 1,000	\$ 5,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 56,800	\$ 14,700	\$ 72,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.9%	\$ 72,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Little Bayou - Below Lower Vallier (Feature No.= 22)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	57	AC	\$ 800	\$ 45,600	\$ 11,400	\$ 57,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES	57	AC	\$ 835	\$ 47,600	\$ 11,900	\$ 60,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	57	AC	\$ 1,400	\$ 80,000	\$ 20,000	\$ 100,000
Excavation	65,669	CY	\$ 1.00	\$ 66,000	\$ 17,000	\$ 83,000
Turfing	38	AC	\$ 500	\$ 19,000	\$ 5,000	\$ 24,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 173,000	\$ 44,000	\$ 217,000
30 PLANNING, E&D	1	LS	15.0%	\$ 33,000	\$ 8,000	\$ 41,000
TOTAL 30 PLANNING, E&D				\$ 33,000	\$ 8,000	\$ 41,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 22,000	\$ 6,000	\$ 28,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 22,000	\$ 6,000	\$ 28,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 275,600	\$ 69,900	\$ 346,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.4%	\$346,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Buckingham Flats Impoundment (Feature No.= 23)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	21	AC	\$ 800	\$ 16,800	\$ 4,200	\$ 21,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	21	AC	\$ 895	\$ 18,800	\$ 4,700	\$ 24,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	21	AC	\$ 1,400	\$ 29,000	\$ 7,000	\$ 36,000
Excavation	13,856	CY	\$ 1.00	\$ 14,000	\$ 4,000	\$ 18,000
Improve flooding, drainage, and hydrology restoration, 4' BW, 2' depth, 3H on 1V Slope, 50' clearing						
Turfing	15	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000
Rough Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 59,000	\$ 15,000	\$ 74,000
30 PLANNING, E&D	1	LS	15.0%	\$ 11,000	\$ 3,000	\$ 14,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 11,000	\$ 3,000	\$ 14,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 7,000	\$ 2,000	\$ 9,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 7,000	\$ 2,000	\$ 9,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 95,800	\$ 24,700	\$ 121,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.8%	\$121,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT									
Ditch West of Gray's Reservoir (Feature No.= 24)									
Project Cost Estimate Oct 2004									
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS		
01 LANDS AND DAMAGES									
Real Estate	8	AC	\$ 800	\$ 6,400	\$ 1,600	\$ 8,000			
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000			Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	8	AC	\$ 1,050	\$ 8,400	\$ 2,100	\$ 11,000			
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -			
06 WILDLIFE FACILITIES AND SANCTUARIES									
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000			Assume one contract.
Clearing	8	AC	\$ 1,400	\$ 11,000	\$ 3,000	\$ 14,000			Heavy Clearing, Piling and Burning
Excavation	4,889	CY	\$ 1.00	\$ 5,000	\$ 1,000	\$ 6,000			Improve drainage and reduce flooding of adjacent landowners, 4' BW, 2' depth, 3H on 1V Slope, 50' clearing
Turfing	5	AC	\$ 500	\$ 3,000	\$ 1,000	\$ 4,000			Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES									
				\$ 27,000	\$ 7,000	\$ 34,000			
30 PLANNING, E&D	1	LS	15.0%	\$ 5,000	\$ 1,000	\$ 6,000			E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 5,000	\$ 1,000	\$ 6,000			
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 3,000	\$ 1,000	\$ 4,000			Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 3,000	\$ 1,000	\$ 4,000			
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 43,400	\$ 11,100	\$ 55,000			
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.6%	\$ 55,000			

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT

Long Pond Slough (Feature No.= 25)

Project Cost Estimate Oct 2004

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	36	AC	\$ 800	\$ 28,800	\$ 7,200	\$ 36,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	36	AC	\$ 856	\$ 30,800	\$ 7,700	\$ 39,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	36	AC	\$ 1,400	\$ 50,000	\$ 13,000	\$ 63,000	Heavy Clearing, Piling and Burning
Excavation	44,196	CY	\$ 1.00	\$ 44,000	\$ 11,000	\$ 55,000	Improve drainage & restore hydrology, 10' BW, 3' depth, 3H on 1V Slope, 75' clearing
Turfing	23	AC	\$ 500	\$ 12,000	\$ 3,000	\$ 15,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 114,000	\$ 29,000	\$ 143,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 21,000	\$ 5,000	\$ 26,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 21,000	\$ 5,000	\$ 26,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 14,000	\$ 4,000	\$ 18,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 14,000	\$ 4,000	\$ 18,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 179,800	\$ 45,700	\$ 226,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.4%	\$226,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Castor Bayou (Feature No.= 26)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	7	AC	\$ 800	\$ 5,600	\$ 1,400	\$ 7,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	7	AC	\$ 1,086	\$ 7,600	\$ 1,900	\$ 10,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	7	AC	\$ 1,400	\$ 10,000	\$ 3,000	\$ 13,000	Heavy Clearing, Piling and Burning
Excavation	3,971	CY	\$ 1.00	\$ 4,000	\$ 1,000	\$ 5,000	Improve drainage and reduce flooding of adjacent landowners, 8' BW, 2' depth, 3H on 1V Slope, 75' clearing
Turfing	5	AC	\$ 500	\$ 3,000	\$ 1,000	\$ 4,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 25,000	\$ 7,000	\$ 32,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 5,000	\$ 1,000	\$ 6,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 5,000	\$ 1,000	\$ 6,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 3,000	\$ 1,000	\$ 4,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 3,000	\$ 1,000	\$ 4,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 40,600	\$ 10,900	\$ 52,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		26.8%	\$ 52,000	

OPERATION AND MAINTENANCE COST

Castor Bayou (Feature No.= 26)

[illegible]

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Wabbasekka Bayou on West Side of Salt Ditch (Feature No.= 27)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	47	AC	\$ 800	\$ 37,600	\$ 9,400	\$ 47,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
						Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	47	AC	\$ 843	\$ 39,600	\$ 9,900	\$ 50,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	47	AC	\$ 1,400	\$ 66,000	\$ 17,000	\$ 83,000
						Assume one contract.
Excavation	54,163	CY	\$ 1.00	\$ 54,000	\$ 14,000	\$ 68,000
						Improve drainage and reduce flooding of adjacent landowners, 15' BW, 3' depth, 3H on 1V Slope, 100' clearing
Turfing	31	AC	\$ 500	\$ 16,000	\$ 4,000	\$ 20,000
						Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 144,000	\$ 37,000	\$ 181,000
30 PLANNING, E&D	1	LS	15.0%	\$ 27,000	\$ 7,000	\$ 34,000
				\$ 27,000	\$ 7,000	\$ 34,000
TOTAL 30 PLANNING, E&D				\$ 27,000	\$ 7,000	\$ 34,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 18,000	\$ 5,000	\$ 23,000
				\$ 18,000	\$ 5,000	\$ 23,000
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 18,000	\$ 5,000	\$ 23,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 228,600	\$ 58,900	\$ 288,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.8%	\$288,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT

Wabbaseka Bayou on East side of Salt Ditch (Feature No.= 28)

Project Cost Estimate Oct 2004

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate Acquisition	7 AC		\$ 800	\$ 5,600	\$ 1,400	\$ 7,000	
	1 LS		\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	7 AC		\$ 1,086	\$ 7,600	\$ 1,900	\$ 10,000	
TOTAL 02 RELOCATIONS	1 LS		\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob Clearing	1 LS		\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
	7 AC		\$ 1,400	\$ 10,000	\$ 3,000	\$ 13,000	Heavy Clearing, Piling and Burning
Excavation	8,719 CY		\$ 1.00	\$ 9,000	\$ 2,000	\$ 11,000	Improve drainage & restore hydrology, 10' BW, 3' depth, 3H on 1V Slope, 75' clearing
Turfing	4 AC		\$ 500	\$ 2,000	\$ 1,000	\$ 3,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 29,000	\$ 8,000	\$ 37,000	
30 PLANNING, E&D	1 LS		15.0%	\$ 6,000	\$ 2,000	\$ 8,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 6,000	\$ 2,000	\$ 8,000	
31 CONSTRUCTION MANAGEMENT	1 LS		10.0%	\$ 4,000	\$ 1,000	\$ 5,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 4,000	\$ 1,000	\$ 5,000	
TOTAL PROJECT COSTS (Oct 04)	1 LS			\$ 46,600	\$ 12,900	\$ 60,000	
TOTAL PROJECT COSTS (Oct 04)	1 LS		100.0%		27.7%	\$60,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Cross Bayou in Government Impoundment (Feature No.= 29)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	28	AC	\$ 800	\$ 22,400	\$ 5,600	\$ 28,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	28	AC	\$ 871	\$ 24,400	\$ 6,100	\$ 31,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	28	AC	\$ 1,400	\$ 39,000	\$ 10,000	\$ 49,000
Assume one contract.						
Excavation	33,807	CY	\$ 1.00	\$ 34,000	\$ 9,000	\$ 43,000
Improve drainage and reduce flooding of adjacent landowners, 10' BW, 3' depth, 3H on 1V Slope, 75' clearing						
Turfing	17	AC	\$ 500	\$ 9,000	\$ 2,000	\$ 11,000
Rough Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 90,000	\$ 23,000	\$ 113,000
30 PLANNING, E&D	1	LS	15.0%	\$ 17,000	\$ 4,000	\$ 21,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 17,000	\$ 4,000	\$ 21,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 11,000	\$ 3,000	\$ 14,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 11,000	\$ 3,000	\$ 14,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 142,400	\$ 36,100	\$ 179,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.4%	\$ 179,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Swan Lake Levee (Feature No.= 30)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	3	AC	\$ 800	\$ 2,400	\$ 600	\$ 3,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	3	AC	\$ 1,467	\$ 4,400	\$ 1,100	\$ 6,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	3	AC	\$ 1,400	\$ 4,000	\$ 1,000	\$ 5,000
Assume one contract.						
Excavation	4,360	CY	\$ 1	\$ 4,000	\$ 1,000	\$ 5,000
Levee Degrading. Shoving material into adjacent borrow area. 3' height, 6' top width, 3H on 1V Slope, 50' Clearing						
Turfing	3	AC	\$ 500	\$ 2,000	\$ 1,000	\$ 3,000
Rough Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 18,000	\$ 5,000	\$ 23,000
30 PLANNING, E&D	1	LS	15.0%	\$ 3,000	\$ 1,000	\$ 4,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 3,000	\$ 1,000	\$ 4,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 2,000	\$ 1,000	\$ 3,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 2,000	\$ 1,000	\$ 3,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 27,400	\$ 8,100	\$ 36,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		29.6%	\$36,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Salt Ditch Water Control Structure (Feature No.= 33)							
Project Cost Estimate Oct 2004							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	34	AC	\$ 800	\$ 27,328	\$ 6,832	\$ 34,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	34	AC	\$ 859	\$ 29,328	\$ 7,332	\$ 37,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Structure Cost, Construction	1	LS	\$ 2,225,000	\$ 2,225,000	\$ 556,000	\$ 2,781,000	Assume one contract. Costs provided by MVK.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 2,225,000	\$ 556,000	\$ 2,781,000	
30 PLANNING, E&D	1	LS		\$ 444,600	\$ 111,000	\$ 555,600	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 444,600	\$ 111,000	\$ 555,600	
31 CONSTRUCTION MANAGEMENT	1	LS		\$ 222,300	\$ 56,000	\$ 278,300	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 222,300	\$ 56,000	\$ 278,300	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 2,921,228	\$ 730,332	\$ 3,651,900	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.0%	\$3,652,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Dry Bayou Ditch Water Control Structure (Feature No.= 34)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	8	AC	\$ 800	\$ 6,272	\$ 1,568	\$ 8,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
TOTAL 01 LANDS AND DAMAGES						
	8	AC	\$ 1,055	\$ 8,272	\$ 2,068	\$ 11,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Structure Cost, Construction	1	LS	\$ 627,000	\$ 627,000	\$ 157,000	\$ 784,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 627,000	\$ 157,000	\$ 784,000
30 PLANNING, E&D	1	LS		\$ 125,400	\$ 31,000	\$ 156,400
TOTAL 30 PLANNING, E&D						
				\$ 125,400	\$ 31,000	\$ 156,400
31 CONSTRUCTION MANAGEMENT	1	LS		\$ 62,700	\$ 16,000	\$ 78,700
TOTAL 31 CONSTRUCTION MANAGEMENT						
				\$ 62,700	\$ 16,000	\$ 78,700
TOTAL PROJECT COSTS (Oct 04)						
	1	LS		\$ 823,372	\$ 206,068	\$ 1,030,100
TOTAL PROJECT COSTS (Oct 04)						
	1	LS	100.0%		25.0%	\$1,030,000

OPERATION AND MAINTENANCE COST							
Dry Bayou Ditch Water Control Structure (Feature No.= 34)							
ITEM DESCRIPTION	DESIGN QUANTITY	UNIT	UNIT PRICE	PERCENT OF DESIGN TO REHAB	REHAB QUANTITY	COST	REHAB INTERVAL IN YRS
Structure Rehab							
Electrical Equipment	1	LS	\$ 75,000	75%	0.75	\$ 56,250	
Painting	1	LS	\$ 10,000	100%	1	\$ 10,000	
Concrete Repair	1	LS	\$ 150,000	10%	0.1	\$ 15,000	
Stone Protection	1,000	TN	\$ 25	20%	200	\$ 5,000	
Gates, Stems, Motors	1	LS	\$ 150,000	20%	0.2	\$ 30,000	
Total Structure Rehab	1	LS		15%		\$ 116,250	25
Beaver Control	1	LS	\$ 2,000			\$ 2,000	1
Operation and Trash Cleanout	1	LS	\$ 1,500			\$ 1,500	1

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT

East of Cannon Break Water Control Structure (Feature No.= 35)

Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	1	AC	\$ 800	\$ 800	\$ 200	\$ 1,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	1	AC	\$ 2,800	\$ 2,800	\$ 700	\$ 4,000
TOTAL 02 RELOCATIONS						
	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 15,000	\$ 15,000	\$ 4,000	\$ 19,000
Assume one contract.						
Clearing	1	AC	\$ 2,000	\$ 2,000	\$ 1,000	\$ 3,000
Excavation	3,000	CY	\$ 3.00	\$ 9,000	\$ 2,000	\$ 11,000
Inlet/Outlet and Structural Excavation						
Granular Bedding	90	TN	\$ 25	\$ 2,000	\$ 1,000	\$ 3,000
Sheet Pile Erosion Protect	300	SF	\$ 30	\$ 9,000	\$ 2,000	\$ 11,000
Outlet end beneath structure, 10 feet depth.						
Concrete, Reinforced	180	CY	\$ 400	\$ 72,000	\$ 18,000	\$ 90,000
Based upon rough design by David Welch						
RCP, 60"	15	LF	\$ 300	\$ 5,000	\$ 1,000	\$ 6,000
Gate, Stem, Portable Operator	1	LS	\$ 30,000	\$ 30,000	\$ 8,000	\$ 38,000
Portable gasoline geared gate operator.						
Riprap	225	TN	\$ 30	\$ 7,000	\$ 2,000	\$ 9,000
40' x 50' x 2'						
Filter Material	75	TN	\$ 20	\$ 2,000	\$ 1,000	\$ 3,000
Turfing	1	AC	\$ 2,000	\$ 2,000	\$ 1,000	\$ 3,000
Roadway Base Gravel	15	CCY	\$ 30	\$ 500	\$ 100	\$ 1,000
12 x 60 x .5'						
Environmental Protection	1	LS	\$ 2,000	\$ 2,000	\$ 1,000	\$ 3,000
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 157,500	\$ 42,100	\$ 200,000
30 PLANNING, E&D	1	LS	15.0%	\$ 30,000	\$ 8,000	\$ 38,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 30,000	\$ 8,000	\$ 38,000

31 CONSTRUCTION MANAGEMENT	1	LS	12.0%	\$	24,000	\$	6,000	\$	30,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$	24,000	\$	6,000	\$	30,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$	214,300	\$	56,800	\$	272,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%				26.5%		\$272,000	

OPERATION AND MAINTENANCE COST							
East of Cannon Break Water Control Structure (Feature No.= 35)							
ITEM DESCRIPTION	DESIGN QUANTITY	UNIT	UNIT PRICE	PERCENT OF DESIGN TO REHAB	REHAB QUANTITY	COST	REHAB INTERVAL IN YRS
Structure Rehab							
Electrical Equipment	1	LS	\$ -	75%	0.75	\$ -	
Painting	1	LS	\$ 8,000	100%	1	\$ 8,000	
Concrete Repair	1	LS	\$ 90,000	10%	0.1	\$ 9,000	
Stone Protection	300	TN	\$ 30	20%	60	\$ 1,800	
Gates, Stems	1	LS	\$ 30,000	20%	0.2	\$ 6,000	
Total Structure Rehab	1	LS		12%		\$ 24,800	25
Beaver Control	1	LS	\$ 2,000			\$ 2,000	1
Operation and Trash Cleanup	1	LS	\$ 2,000			\$ 2,000	1

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Salt Ditch from Hwy 79 to Lower Vallier (Feature No.= 36)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate						
Acquisition	149	AC	\$ 800	\$ 119,200	\$ 29,800	\$ 149,000
	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
						Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	149	AC	\$ 813	\$ 121,200	\$ 30,300	\$ 152,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	149	AC	\$ 1,400	\$ 209,000	\$ 52,000	\$ 261,000
						Assume one contract.
Excavation	208,826	CY	\$ 1.00	\$ 209,000	\$ 52,000	\$ 261,000
						Improve drainage and reduce flooding of adjacent landowners, 20' BW, 3' depth, 3H on 1V Slope, 100' clearing
Turfing	92	AC	\$ 500	\$ 46,000	\$ 12,000	\$ 58,000
						Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES						
				\$ 472,000	\$ 118,000	\$ 590,000
30 PLANNING, E&D	1	LS	15.0%	\$ 89,000	\$ 22,000	\$ 111,000
						E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 89,000	\$ 22,000	\$ 111,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 59,000	\$ 15,000	\$ 74,000
						Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 59,000	\$ 15,000	\$ 74,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 741,200	\$ 185,300	\$ 927,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.0%	\$927,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT						
Dry Bayou from Big Bayou Meto to Salt Ditch (Feature No.= 37)						
Project Cost Estimate Oct 2004						
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total
01 LANDS AND DAMAGES						
Real Estate	24	AC	\$ 800	\$ 19,200	\$ 4,800	\$ 24,000
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000
Prorated assuming 80 Acres per acquisition.						
TOTAL 01 LANDS AND DAMAGES	24	AC	\$ 883	\$ 21,200	\$ 5,300	\$ 27,000
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -
06 WILDLIFE FACILITIES AND SANCTUARIES						
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000
Clearing	24	AC	\$ 1,400	\$ 34,000	\$ 9,000	\$ 43,000
Assume one contract.						
Heavy Clearing, Piling and Burning						
Excavation	28,037	CY	\$ 1.00	\$ 28,000	\$ 7,000	\$ 35,000
Improve drainage and reduce flooding of adjacent landowners, 15' BW, 3' depth, 3H on 1V Slope, 100' clearing						
Turfing	16	AC	\$ 500	\$ 8,000	\$ 2,000	\$ 10,000
Rough Dress, Fert, Seeding.						
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 78,000	\$ 20,000	\$ 98,000
30 PLANNING, E&D	1	LS	15.0%	\$ 15,000	\$ 4,000	\$ 19,000
E&D for design based upon shown percent of construction accounts.						
TOTAL 30 PLANNING, E&D				\$ 15,000	\$ 4,000	\$ 19,000
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 10,000	\$ 3,000	\$ 13,000
Construction Management Based upon shown percent construction accounts.						
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 10,000	\$ 3,000	\$ 13,000
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 124,200	\$ 32,300	\$ 157,000
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		26.0%	\$157,000

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT

TEMPLE ISLAND (Feature No.= 38)

Project Cost Estimate Oct 2004

ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate	4	AC	\$ 800	\$ 3,200	\$ 800	\$ 4,000	
Acquisition	1	LS	\$ 2,000	\$ 2,000	\$ 500	\$ 3,000	Prorated assuming 80 Acres per acquisition.
TOTAL 01 LANDS AND DAMAGES	4	AC	\$ 1,300	\$ 5,200	\$ 1,300	\$ 7,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Mob and Demob	1	LS	\$ 8,000	\$ 8,000	\$ 2,000	\$ 10,000	Assume one contract.
Clearing	4	AC	\$ 1,400	\$ 6,000	\$ 2,000	\$ 8,000	Heavy Clearing, Piling and Burning
Excavation	5,107	CY	\$ 1.00	\$ 5,000	\$ 1,000	\$ 6,000	Improve drainage & restore hydrology, 10' BW, 3' depth, 3H on 1V Slope, 75' clearing
Turfing	3	AC	\$ 500	\$ 2,000	\$ 1,000	\$ 3,000	Rough Dress, Fert, Seeding.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 21,000	\$ 6,000	\$ 27,000	
30 PLANNING, E&D	1	LS	15.0%	\$ 4,000	\$ 1,000	\$ 5,000	E&D for design based upon shown percent of construction accounts.
TOTAL 30 PLANNING, E&D				\$ 4,000	\$ 1,000	\$ 5,000	
31 CONSTRUCTION MANAGEMENT	1	LS	10.0%	\$ 3,000	\$ 1,000	\$ 4,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 3,000	\$ 1,000	\$ 4,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 33,200	\$ 9,300	\$ 43,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		28.0%	\$ 43,000	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Alternative 1 Restoration Cost, Bayou Meto							
Project Cost Estimate Feb 2005							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate Conservation Easements	23,000	AC	\$ 900	\$ 20,700,000	\$ 5,175,000	\$ 25,875,000	Conservation Easement.
Acquisition - Ownerships	115	EA	\$ 4,300	\$ 494,500	\$ 123,625	\$ 618,000	One ownership tract per 200 acres.
TOTAL 01 LANDS AND DAMAGES	23,000	LS	\$ 922	\$ 21,194,500	\$ 5,298,625	\$ 26,493,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Micro-Topography	23,000	AC	\$ 50	\$ 1,150,000	\$ 288,000	\$ 1,438,000	Minor surface earthwork.
Planting, State Nursery Hardwood Tree Seedlings, 12" to 18" , 10' x 10' Centers	23,000	AC	\$ 400	\$ 9,200,000	\$ 2,300,000	\$ 11,500,000	Hand planted .
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 10,350,000	\$ 2,588,000	\$ 12,938,000	
30 PLANNING, E&D	1	LS	5.0%	\$ 647,000	\$ 162,000	\$ 809,000	E&D for design based upon shown percent of construction accounts.
Cultural Resources Surveys	23,000	AC	\$ 75	\$ 1,725,000	\$ 431,000	\$ 2,156,000	Costs for Cultural Resource Surveys
TOTAL 30 PLANNING, E&D				\$ 2,372,000	\$ 593,000	\$ 2,965,000	
31 CONSTRUCTION MANAGEMENT	1	LS	6.0%	\$ 776,000	\$ 194,000	\$ 970,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 776,000	\$ 194,000	\$ 970,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 34,692,500	\$ 8,673,625	\$ 43,366,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.0%	\$43,366,000	

PROJECT UNIT COST	23,000	AC	\$	1,885			\$43,366,000	Bottom line cost per acre with contingencies.	

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Bayou Meto Riparian Buffers							
Project Cost Estimate Feb 2005							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate Conservation Easements	1,785	AC	\$ 1,100	\$ 1,963,500	\$ 490,875	\$ 2,454,000	Based upon 90% fee title cost of \$1200 per acre.
Acquisition - Ownerships	0	EA	\$ 4,300	\$ -	\$ -	\$ -	
TOTAL 01 LANDS AND DAMAGES	1,785	LS	\$ 1,100	\$ 1,963,500	\$ 490,875	\$ 2,454,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Planting, State Nursery Hardwood Tree Seedlings, 12" to 18" , 10' x 10' Centers	1,785	AC	\$ 400	\$ 714,000	\$ 179,000	\$ 893,000	
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 714,000	\$ 179,000	\$ 893,000	
30 PLANNING, E&D	1	LS	5.0%	\$ 45,000	\$ 11,000	\$ 56,000	Planning, E&D for design based upon shown percent of construction accounts.
Cultural Resources Surveys	1,785	AC	\$ 75	\$ 133,875	\$ 33,000	\$ 166,875	Costs for Cultural Resource Surveys
TOTAL 30 PLANNING, E&D				\$ 178,875	\$ 44,000	\$ 222,875	
31 CONSTRUCTION MANAGEMENT	1	LS	6.0%	\$ 54,000	\$ 14,000	\$ 68,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 54,000	\$ 14,000	\$ 68,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 2,910,375	\$ 727,875	\$ 3,637,875	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.0%	\$3,638,000	
PROJECT UNIT COST	1,785	AC	\$ 2,038			\$3,638,000	Bottom line cost per acre with contingencies.

US ARMY CORPS OF ENGINEERS, MEMPHIS DISTRICT							
Bayou Meto Basin Moist Soil Habitat							
Project Cost Estimate Feb 2005							
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTING.	Total	COMMENTS
01 LANDS AND DAMAGES							
Real Estate Conservation Easements	240	AC	\$ 1,200	\$ 288,000	\$ 72,000	\$ 360,000	Fee Simple.
Acquisition - Ownerships	1	EA	\$ 4,300	\$ 4,300	\$ 1,075	\$ 5,000	Ownerships considered in Flood Control / Irrigation cost estimates.
TOTAL 01 LANDS AND DAMAGES	240	LS	\$ 1,218	\$ 292,300	\$ 73,075	\$ 365,000	
TOTAL 02 RELOCATIONS	1	LS	\$ -	\$ -	\$ -	\$ -	
06 WILDLIFE FACILITIES AND SANCTUARIES							
Moist Soil Unit Improvements	240	AC	\$ 1,700	\$ 408,000	\$ 102,000	\$ 510,000	Levee construction, stoplog structures, wells, pumps, distribution pipe, gravel and turfing. Costs taken from Lower Obion, TN, Sec 1135, Ecosystem Restoration Report.
06 TOTAL WILDLIFE FACILITIES AND SANCTUARIES				\$ 408,000	\$ 102,000	\$ 510,000	
30 PLANNING, E&D	1	LS	5.0%	\$ 26,000	\$ 7,000	\$ 33,000	Planning, E&D for design based upon shown percent of construction accounts.
Cultural Resources Surveys	240	AC	\$ 75	\$ 18,000	\$ 5,000	\$ 23,000	Costs for Cultural Resource Surveys
TOTAL 30 PLANNING, E&D				\$ 44,000	\$ 12,000	\$ 56,000	
31 CONSTRUCTION MANAGEMENT	1	LS	6.0%	\$ 31,000	\$ 8,000	\$ 39,000	Construction Management Based upon shown percent construction accounts.
TOTAL 31 CONSTRUCTION MANAGEMENT				\$ 31,000	\$ 8,000	\$ 39,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS		\$ 775,300	\$ 195,075	\$ 970,000	
TOTAL PROJECT COSTS (Oct 04)	1	LS	100.0%		25.2%	\$970,000	

PROJECT UNIT COST	240	AC	\$	4,042			\$970,000	Bottom line cost per acre with contingencies.	

