

PO # 170311  
 Coms Rec 497795  
**AECOM**

Check Payment to:  
 AECOM Technical Services, Inc.  
 An AECOM Company  
 1178 Paysphere Circle  
 Chicago IL 60674

ACH Payment to:  
 AECOM Technical Services, Inc.  
 An AECOM Company  
 Bank of America

Wire Transfer Payment to:  
 An AECOM Company  
 Bank of America  
 New York, NY 10001

Attn: Accounts Payable  
 Fort Bend County  
 301 Jackson Street  
 Richmond, Texas 77469

Invoice Date: June 28, 2019

Invoice No: 2000230820

60590362 - Bullhead Bayou Overflow Study / Concept Design

For Professional Engineering Services Rendered Through June 21, 2019

Phase Lump Sum

Description	Fee	Percent Complete	Earned	Previously Billed	Current
Bullhead Bayou - Basic Services	\$ 85,300.00	90.47%	77,170.00	36,310.00	40,860.00
Bullhead Bayou - Special Services	\$ 42,000.00		-	-	-
	<b>\$ 127,300.00</b>		<b>\$ 77,170.00</b>	<b>\$ -</b>	<b>\$ 40,860.00</b>

Project Total: Bullhead Bayou / 90A:

\$ 40,860.00

OK. AIA.  
 7/3/19

Billing Summaries

Billing Summary	Current	Prior	Total Billed	Total Fee	Remaining Balance
Billings	40,860.00	36,310.00	77,170.00 ✓	127,300.00	\$ 50,130.00 ✓

Project Name: Bullhead Bayou Overflow Control Study / Concept Design  
Project Location: Fort Bend County

**PROGRESS REPORT NO. 2**  
**December 1, 2018 to June 21, 2019**

**Total Percent Complete: 90%**  
**Previous % Complete: 43%**  
**Total WA Value: \$127,300**  
**Billed to Date: \$77,170**  
**Billed This Month: \$40,860**  
**Billed Last Month: \$36,310**  
**Remaining: \$50,130**

\*\*\*\*\*  
**Task 1: Project Management (80% complete)**

*Activities this period:*

- General management and oversight of the project
- preparation of invoice

*Activities anticipated next period:*

- General management and oversight of the project
- Present initial findings to Fort Bend County
- Preparation of invoice

*Outstanding issues:*

- No current issues

**Task 4 Develop Existing Conditions 2D Model (100% complete)**

*Activities this period:*

- Developed the existing conditions hydraulic model
- Updated the BRA and Jones and Carter hydrologic models
- Finalize the existing hydrologic and hydraulic models

*Activities anticipated next period:*

- None

*Outstanding issues:*

- No current issues

Project Name: Bullhead Bayou Overflow Control Study / Concept Design  
Project Location: Fort Bend County

**Task 5 Compare Results/ Perform Calibration (100% complete)**

Activities this period:

- High level comparison of the models reviewed in task 3
- Calibration of model to Hurricane Harvey Storm event

Activities anticipated next period:

- None

Outstanding issues:

- No current issues

**Task 6 Determine Design Elevation (100% complete)**

Activities this period:

- High level analysis of limiting elevations near the proposed berm
- Discussed potential Berm elevations with Fort Bend County

Activities anticipated next period:

- None

Outstanding issues:

- No current issues

**Task 7 Develop up to 3 Conceptual Alternatives (80% complete)**

Activities this period:

- High level comparison of the models reviewed in task 5 with
- Preparation of schematic design drawings

Activities anticipated next period:

- Address Fort Bend County's comments

Outstanding issues:

- No current issues

**Task 8 H&H Modeling of Preferred Alternative (80% complete)**

Activities this period:

- Develop the proposed alternative model
- Evaluate proposed alternative model results

Activities anticipated next period:

- Address Fort Bend County's comments

Outstanding issues:

- No current issues

Project Name: Bullhead Bayou Overflow Control Study / Concept Design  
Project Location: Fort Bend County

**Task 9 Cost Estimating (80% complete)**

*Activities this period:*

- Develop cost estimate for the draft drainage report

*Activities anticipated next period:*

- Address Fort Bend County's comments

*Outstanding issues:*

- No current issues

**Task 10 Report Preparation (80% complete)**

*Activities this period:*

- Prepare the draft drainage report and exhibits

*Activities anticipated next period:*

- Address Fort Bend County's comments

*Outstanding issues:*

- No current issues

Prepared By: Kyle Denny, CFM,

Date: June 14, 2019

Bullhead Bayou Overflow Control Study / Concept Design  
 AECOM Technical Services, Inc.  
 Fort Bend PO No.: 170311  
 Invoice No.: 2  
 Invoice Period: 12/1/18 to 6/21/19

**BASIC SERVICES - FIXED FEE**

Task No.	Task Name	Contract Limit	Previous Amount	Previous % Complete	Amount Expended this	Period % Complete	Amount Expended to Date	% Expended to Date	Amount Remaining
1	Project Management	\$5,200	\$2,080	40%	\$2,080	40%	\$4,160	80%	\$1,040
2	Oversee Limited Field Survey	\$1,700	\$0	100%	\$0	100%	\$1,700	100%	\$0
3	Review of Existing Brazos River Models	\$8,200	\$8,200	100%	\$0	100%	\$8,200	100%	\$0
4	Develop Existing Conditions 2D Model	\$25,400	\$20,320	80%	\$5,080	20%	\$25,400	100%	\$0
5	Compare Results / Perform Calibration	\$6,600	\$3,960	60%	\$2,640	40%	\$6,600	100%	\$0
6	Determine Design Elevation	\$2,500	\$0	0%	\$2,500	100%	\$2,500	100%	\$0
7	Develop up to 3 Conceptual Alternatives	\$16,600	\$0	0%	\$13,280	80%	\$13,280	80%	\$3,320
8	H&H Modeling of Preferred Alternative	\$4,500	\$0	0%	\$3,600	80%	\$3,600	80%	\$900
9	Cost Estimating	\$5,200	\$0	0%	\$4,160	80%	\$4,160	80%	\$1,040
10	Report Preparation	\$8,900	\$0	0%	\$7,120	80%	\$7,120	80%	\$1,780
ODCs		\$500	\$50	10%	\$400	80%	\$450	90%	\$50
Totals		\$85,300	\$36,310	43%	\$40,860	48%	\$77,170	90%	\$8,130

**ADDITIONAL SERVICES - SPECIFIED RATE**

Task No.	Task Name	Contract Limit	Previous Amount	Previous % Complete	Amount Expended this	Period % Complete	Amount Expended to Date	% Expended to Date	Amount Remaining
1	Hydraulic Analysis of Additional Alternatives	\$4,000	\$0	0%	\$0	0%	\$0	0%	\$4,000
2	Develop Plan View Schematics for Add. Alt's.	\$16,000	\$0	0%	\$0	0%	\$0	0%	\$16,000
3	TxDOT Coordination	\$5,000	\$0	0%	\$0	0%	\$0	0%	\$5,000
4	LID 7 Coordination	\$5,000	\$0	0%	\$0	0%	\$0	0%	\$5,000
5	UPRR Coordination	\$2,000	\$0	0%	\$0	0%	\$0	0%	\$2,000
6	Design Revisions	\$10,000	\$0	0%	\$0	0%	\$0	0%	\$10,000
Totals		\$42,000	\$0	0%	\$0	0%	\$0	0%	\$42,000

Project Summary		
Contract Limit	Amount Expended to Date	Amount Remaining
\$85,300	\$77,170	\$8,130
\$42,000	\$0	\$42,000
\$127,300	\$77,170	\$50,130



June 28, 2019

Fort Bend County  
301 Jackson Street  
Richmond, Texas 77469

Attn: Jillian Peterson

Project Name: Bullhead Bayou Overflow Control Study/Concept Design  
County: Fort Bend County  
Fort Bend PO No.: 170311  
AECOM Project No.: 60590362

Dear : Ms. Peterson

Transmitted herewith, please find Invoice No. 2000230820 in the amount of \$40,860.00 for work on the referenced project from December 1, 2018 through June 21, 2019. If you concur with this invoice, please process for payment.

***Please include Project Numbers  
and Invoice Numbers on payment***

Please note Payment Addresses :

Payments by Check: AECOM Technical Services, Inc.  
1178 Paysphere Circle  
Chicago, IL 60674

Payments by EFT/ACH: AECOM Technical Services, Inc.  
Bank Name: Bank of America  
1655 Grant Street, Concord, CA 94520

Payments by Wire Transfer: AECOM Technical Services, Inc.  
Bank Name: Bank of America  
100 West 33rd Street, New York, NY 10001

Sincerely,

Michael F. McGovern, PE, CFM  
Project Manager, Water  
281-675-1919

Attachment