

**Alliance Regional Water Authority
Board of Directors**

REGULAR MEETING



ALLIANCE WATER

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.

Call-In Number: 1-346-248-7799

Meeting ID: 983 0449 0243

Passcode: 035853

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

This Notice is posted pursuant to the Texas Open Meetings Act (Texas Government Code Chapter 551). The Alliance Regional Water Authority (the Authority) Board of Directors will hold a meeting at 3:00 PM, Wednesday, August 25, 2021, at the San Marcos Activity Center, 501 E. Hopkins, San Marcos, Texas. The presiding officer of the meeting will be physically present at the location noted above. Some directors may participate remotely through videoconference. The public may observe this meeting in person or by using the following videoconference link and/or calling the number and code provided:

[Zoom Meeting Link](#)

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Members of the public wishing to make public comment during the meeting must (1) be present at the public meeting location or (2) join by videoconference and register by emailing info@alliancewater.org prior to 3:00 p.m. on August 25th, 2021. Public comment is not allowed by call-in. This meeting will be recorded and the audio recording will be available on the Authority's website after the meeting. A copy of the agenda packet will be available on the Authority's website at the time of the meeting. Additional information can be obtained by calling Graham Moore at (512) 294-3214.

A. CALL TO ORDER

B. ROLL CALL

C. SEATING OF NEWLY APPOINTED DIRECTOR

C.1 Oath of Office and swearing in of Newly Appointed Director

D. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must register with the Executive Director at info@alliancewater.org before 3:00 p.m.)

E. CONSENT AGENDA

The items included in the Consent Agenda portion of this meeting agenda can be considered and approved by the Board of Directors by one motion and vote. A Board member may request that an item included in the Consent Agenda be considered separately, in which event the Board of Directors will take action on the remaining Consent Agenda items and then consider the item removed from the Consent Agenda.

E.1 Consider approval of minutes of the Regular Meeting held July 28, 2021. ~
Graham Moore, P.E., Executive Director

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- E.2 Consider approval of the financial report for July 2021. ~ *Graham Moore, P.E., Executive Director*
- E.3 Consider adoption of Resolution 2021-08-25-001 authorizing the Executive Director to execute all necessary agreements on behalf of the Authority to provide for utility services on all property owned by the Authority. ~ *Graham Moore, P.E., Executive Director*

F. PUBLIC HEARINGS / PRESENTATIONS - None

G. ITEMS FOR DISCUSSION NOT REQUIRING ACTION

- G.1 Report on Technical Committee activities. ~ *Graham Moore, P.E., Executive Director*
- G.2 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ *Graham Moore, P.E., Executive Director*

H. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS - Update on future meeting dates, locations, status of Authority procurements, Executive Director activities, other operational activities and the status of legal issues, where no action is required. ~ *Graham Moore, P.E., Executive Director / Mike Gershon, Lloyd Gosselink Rochelle & Townsend, P.C.*

I. ITEMS FOR ACTION OR DISCUSSION/DIRECTION

- I.1 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program recent bid openings and construction budgets. ~ *Graham Moore, P.E., Executive Director*
- I.2 Consider adoption of Resolution 2021-08-25-002 awarding a construction contract to MWH Constructors, Inc. for the Phase 1B Booster Pump Station and Delivery Points Project, contingent upon approval of the award by the Texas Water Development Board. ~ *Graham Moore, P.E., Executive Director*
- I.3 Consider adoption of Resolution 2021-08-25-003 confirming the rankings of the submittals in response to the competitive sealed proposal for the Phase 1B Segment A Project and authorizing Staff to enter negotiations with the top scoring contractor. ~ *Graham Moore, P.E., Executive Director*

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- I.4 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- I.5 Consider adoption of Resolution 2021-08-25-004 approving Work Order #5 with Freese & Nichols, Inc. for Construction Administration Services on the Authority's Phase 1B Booster Pump Station and Delivery Points Project, as recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- I.6 Consider adoption of Resolution 2021-08-25-005 approving Work Order #9 with Blanton & Associates, Inc. for additional Environmental Services on the Authority's Phase 1B Segment E Project. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- I.7 Consider adoption of Resolution 2021-08-25-006 approving Work Order #2 with CP&Y, Inc. for SCADA programming services on the Authority's Phase 1B infrastructure, as recommended by the Technical Committee. ~ *Graham Moore, P.E., Executive Director*
- I.8 Discussion and possible direction to Staff regarding Considerations for Operations of the Authority's Water System. ~ *Graham Moore, P.E., Executive Director*
- I.9 Consider adoption of Resolution 2021-08-25-007 making appointments to the Technical Committee. ~ *Graham Moore, P.E., Executive Director*
- I.10 Consider adoption of Resolution 2021-08-25-008 nominating a voting member of the Region 11 Guadalupe Regional Flooding Planning Group in the area of Water Utilities. ~ *Humberto Ramos, Director*
- I.11 Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff. ~ *Scott Miller / Jeff Hecker, Texas Solutions Group*
- J. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Board Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

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K. EXECUTIVE SESSION

K.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) and/or Section 551.074 (Personnel Matters) regarding:*

- A. *Water supply partnership options*
- B. *Groundwater leases*
- C. *Acquisition of real property for water supply project purposes*
- D. *Annual performance evaluation of Executive Director, Graham Moore*

K.2 Action from Executive Session on the following matters:

- A. *Water supply partnership options*
- B. *Groundwater leases*
- C. *Acquisition of real property for water supply project purposes*
- D. *Consideration of Resolution 2021-08-25-009 finding Public Convenience and Necessity for and authorizing the acquisition of certain water pipeline easements and temporary construction easements and certain fee estates for the Alliance Regional Water Authority, Phase 1B Water Line Project in connection therewith, over, across, upon and under certain privately owned real estate properties; authorizing all appropriate actions by the Board of Directors, staff, retained attorneys and engineering and technical consultants in the institution and prosecution of condemnation proceedings to acquire any such needed fee estates and easements and temporary construction easements and related rights of ingress and egress that cannot be acquired through negotiation; declaring further negotiations futile; ratifying and affirming all acts and proceedings heretofore done or initiated by employees, agents, and attorneys of ARWA to acquire such property interests including necessary acts for any applicable lienholders for such properties; authorizing all other lawful action necessary and incidental to such acquisitions or eminent domain proceedings to survey, specify, define, and secure the necessary interests in real property; declaring the sections of the resolution to be severable one from the other in the event any section of the resolution is determined to be invalid; establishing an effective date; and finding and determining that the meeting at which this resolution is passed was noticed and is open to the public as required by law.*
- E. *Annual performance evaluation of Executive Director, Graham Moore –*

L. ADJOURNMENT

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NOTE: *The Board of Directors may meet in Executive Session for any purpose authorized under the Texas Open Meetings Act, Chapter 551 of the Texas Government Code, for any item listed on this agenda or as otherwise authorized by law. An announcement will be made of the basis for Executive Session. The Board of Directors may also publicly discuss any item listed on the agenda for Executive Session.*

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A. CALL TO ORDER

No Backup Information for this Item.

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B. ROLL CALL

NAME	TERM ENDS	PRESENT
Mayor Jane Hughson – Vice-Chair (San Marcos)	April 2023	
Mike Taylor (CRWA - General Manager, Crystal Clear SUD)	April 2023	
Tim Samford (Kyle – Treatment Operations Manager)	April 2024	
Blake Neffendorf – Treasurer (Buda – Water Resources Coordinator)	April 2023	
Councilmember Mark Gleason (San Marcos)	April 2022	
Humberto Ramos (CRWA – Water Resources Director)	April 2024	
James Earp – Secretary (Kyle – Assistant City Manager)	April 2024	
Tyler Hjorth (San Marcos – Interim Director, Utilities)	April 2024	
Chris Betz – Chair (CRWA - President, County Line SUD)	April 2022	
Derrick Turley (Kyle – Water Quality Technician)	April 2024	
Marie Kalka (San Marcos – Finance Director)	April 2022	
Pat Allen (CRWA - General Manager, Green Valley SUD)	April 2023	
Paul Kite (San Marcos – Asst. Director of Public Services)	April 2022	

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C. SEATING OF NEWLY APPOINTED DIRECTORS

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C.1 Oath of Office and swearing in of Directors

Background/Information

Tyler Hjorth was appointed by the San Marcos City Council to fill their vacant seat. The oath of office will be read aloud to Mr. Hjorth at the meeting.

Attachment(s)

- Alliance Water – Director Oath of Office

Board Decision(s) Needed:

- None.

Oath of Office
ALLIANCE REGIONAL WATER AUTHORITY
Board of Directors

I, _____, do solemnly swear (or affirm) that I have not directly or indirectly paid, offered, or promised to pay, contributed or promised to contribute any money, or valuable thing, or promised any public office or employment, as a reward to secure my appointment or confirmation thereof.

I do solemnly swear (or affirm) that I will faithfully execute the duties of the office of Board Director of the Alliance Regional Water Authority, and will to the best of my ability preserve, protect and defend the constitution and laws of the United States and of this state, so help me God.

Signature

Date

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- D.** PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must register with the Executive Director at info@alliancewater.org before 3:00 p.m.)
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E. CONSENT AGENDA

Items E.1 through E.3 are presented as part of the consent agenda.

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E.1 Consider approval of minutes of the Regular Meeting held July 28, 2021. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2021 07 28 Board Meeting Minutes

Board Decision(s) Needed:

- Approval of minutes.



Alliance Regional Water Authority

BOARD MEETING

MINUTES

Wednesday, July 28, 2021

The following represents the actions taken by the Board of Directors of the Alliance Regional Water Authority (ARWA) in the order they occurred during the meeting. The Board of Directors convened in a meeting on Wednesday, July 28, 2021 at the Buda City Hall and via video conference call.

- A. CALL TO ORDER.
The Alliance Water Board Meeting was called to order at 3:05 p.m. by Mr. Betz.

- B. ROLL CALL.
 - **Present: Hughson, Franke, Samford, Neffendorf, Gleason, Ramos, Betz, Kalka, Allen, Kite with Earp joining in Item F.**
 - **Absent: San Marcos vacant seat.**

- C. PUBLIC COMMENT PERIOD
 - **None.**

- D. CONSENT AGENDA
 - D.1 Consider approval of minutes of the Regular Meeting held June 30, 2021.
 - D.2 Consider approval of the financial report for June 2021.
 - D.3 Consider quarterly investment report for the period ending June 30, 2021.
 - **Motion to approve the consent agenda items as presented was made by Mr. Neffendorf, seconded by Mr. Samford and approved on a 11-0 vote with Ms. Hughson abstaining from the minutes.**

- E. PUBLIC HEARINGS / PRESENTATIONS
 - **None.**

F. ITEMS FOR DISCUSSION NOT REQUIRING ACTION

- F.1 Report on Technical Committee activities.
- F.2 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
 - **No items opened.**

G. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS

- **No action.**

H. ITEMS FOR ACTION OR DISCUSSION/DIRECTION

- H.1 Update and discussion regarding the Authority's public relations activities possible direction to staff and consultants.
 - **Natalia Riusech with CD&P updated the Board on their recent activities.**
 - **Mr. Ramos inquired as to how many were invited and expected at the groundbreaking event.**
 - **Ms. Riusech responded that approximately 40 people were invited and to date we have received 26 RSVPs.**
 - **Mr. Moore noted that we are intentionally trying to keep this event relatively small.**
 - **Mr. Betz requested that the public relations presentation to the entire Board.**
 - **No Action.**
- H.2 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants.
 - **Ryan Sowa provided an update.**
 - **No Action.**
- H.3 Consider adoption of Resolution 2021-07-28-001 authorizing the Executive Director to execute all documents necessary with Guadalupe Valley Electrical Cooperative to provide electrical distribution and service to the Water Treatment Plant and the Authority's wells as recommended by the Technical Committee.
 - **Mr. Moore presented the agreement and the underlying need.**

- **Motion to adopt Resolution 2021-07-28-001 authorizing the Executive Director to execute all necessary documents with GVEC to provide electrical distribution and service to the Water Treatment Plant and Well Field was made by Ms. Hughson, seconded by Mr. Earp and approved on a 12-0 vote.**
- H.4 Consider adoption of Resolution 2021-07-28-002 approving a Master Agreement and Work Order #1 with HVJ South Central Texas – M&J, Inc. for Materials Testing Services related to the Phase 1B Water Treatment Plant and Raw Water Infrastructure Project as recommended by the Technical Committee.
- **Motion to adopt Resolution 2021-07-28-002 approving a Master Agreement and Work Order #1 with HVJ South Central Texas – M&J, Inc. for Materials Testing Services on the Phase 1B Program was made by Mr. Samford, seconded by Mr. Ramos and approved on a 12-0 vote.**
- H.5 Discussion and possible direction to Staff regarding the addition of a new delivery point on the Authority's Phase 1B Segment Pipeline for the City of Kyle as recommended by the Technical Committee.
- **Mr. Moore discussed that the City of Kyle is working with a developer and a request has been made to add a new delivery point for Kyle in this area. The discussions are still early, but Staff wanted to make the Board aware of the discussion.**
 - **No Action.**
- H.6 Consider adoption of Resolution 2021-07-28-003 approving Work Order #3 with AECOM Technical Services, Inc. for the Blanco Basin Wastewater Treatment Plant Feasibility Study Update as recommended by the Technical Committee.
- **Mr. Moore discussed the previous wastewater study that was conducted and the reason for the need for the update.**
 - **Motion to adopt Resolution 2021-07-28-003 approving Work Order #3 with AECOM Technical Services for the Blanco Basin Wastewater Treatment Plant Feasibility Study Update was made by Mr. Ramos, seconded by Mr. Samford and approved on a 12-0 vote.**
- H.7 Consider adoption of Resolution 2021-07-28-004 adopting the Authority's budget for FY 2021-22 as recommended by the Technical Committee.
- **Motion to adopt Resolution 2021-07-28-004 adopting the Authority's budget for FY 2021-22 was made by Mr. Neffendorf, seconded by Mr. Samford and approved on a 12-0 vote.**

- H.8 Consider adoption of Resolution 2021-07-28-005 approving an engagement letter with Armstrong, Vaughan & Associates, P.C. for preparing the Authority's FY 2020-21 financial audit.
- **Motion to adopt Resolution 2021-07-28-005 approving an engagement letter with Armstrong, Vaughan & Associates, P.C. for preparing the Authority's FY 2021-21 financial audit, was made by Ms. Hughson, seconded by Mr. Allen and approved on a 12-0 vote.**
- H.9 Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff.
- **Mr. Scott Miller provided an update.**
 - **No Action.**
- J. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS
- **None.**
- K.1 The Board of Directors recessed into Executive Session at 4:03 p.m. pursuant of the Government Code, Section 551.071, to seek the General Counsel's advice regarding matters involving attorney-client privilege, and/or Section 551.072 to discuss water supply project partnership options. The Board of Directors reconvened from Executive Session at 4:32 p.m.
- K.2 Action from Executive Session on the following matters:
- A. Water supply partnership options
 - B. Groundwater leases
 - C. Acquisition of real property for water supply project purposes.
 - **Motion to direct Staff to proceed as discussed in Executive Session was made by Mr. Neffendorf, seconded by Ms. Hughson and approved 12-0.**
 - D. Consideration of Resolution 2021-07-28-006 finding Public Convenience and Necessity for and authorizing the acquisition of certain water pipeline easements and temporary construction easements and certain fee estates for the Alliance Regional Water Authority, Phase 1B Water Line Project in connection therewith, over, across, upon and under certain privately owned real estate properties; authorizing all appropriate actions by the Board of Directors, staff, retained attorneys and engineering and technical consultants in the institution and prosecution of condemnation proceedings to acquire any such needed fee estates and easements and temporary construction easements and related rights of ingress and egress that cannot be acquired through negotiation; declaring further negotiations futile; ratifying and affirming all acts and proceedings heretofore done or initiated by employees, agents, and attorneys of ARWA to acquire such property

interests including necessary acts for any applicable lienholders for such properties; authorizing all other lawful action necessary and incidental to such acquisitions or eminent domain proceedings to survey, specify, define, and secure the necessary interests in real property; declaring the sections of the resolution to be severable one from the other in the event any section of the resolution is determined to be invalid; establishing an effective date; and finding and determining that the meeting at which this resolution is passed was noticed and is open to the public as required by law.

- **Motion to adopt Resolution 2021-07-28-006 finding Public Convenience and Necessity and authorizing Eminent Domain Proceedings, if necessary, for acquisitions as presented was made by Mr. Neffendorf, seconded by Ms. Hughson and approved on a 12-0 vote.**

K. ADJOURNMENT

- **Meeting was adjourned at 4:35 p.m. based on the motion by Ms. Hughson, seconded by Mr. Turley on a 12-0 vote.**

APPROVED: _____, 2021

ATTEST:

Chair, Board of Directors

Secretary, Board of Directors

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

E.2 Consider approval of the financial report for July 2021. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Attached is the financial report for the period ending in July 2021.

Attachment(s)

- 2021 07 31 Financial Report

Board Decision(s) Needed:

- Approval of the financial report for the period ending July 2021.



Alliance Regional Water Authority

**Financial Statements
(Compilation)**

**For the One Month Ended and Year-to-Date
July 31, 2021**

Alliance Regional Water Authority

Balance Sheet

As of July 31, 2021

08/17/21

Accrual Basis

	Jul 31, 21
ASSETS	
Current Assets	
Checking/Savings	
1004 · Broadway Bank	
1005 · Broadway Checking (8040)	-297,447.60
1010 · Broadway Savings (4415)	1,004,083.77
Total 1004 · Broadway Bank	706,636.17
1015 · TexStar (3310)	567,577.14
1050 · Broadway Bank (Reserved)	
1051 · CRWA Debt Service (2785)	2,678,978.17
1052 · Kyle Debt Service (2787)	1,048,717.29
1055 · San Marcos Debt Service (6390)	1,222,540.89
1056 · Buda Debt Service (6391)	354,595.67
Total 1050 · Broadway Bank (Reserved)	5,304,832.02
1100 · Escrow Accounts	
1105 · BOKF, Escrow, CRWA Series 2015A	335,058.19
1106 · BOKF, Escrow, Kyle Series 2015B	221,940.69
1107 · BOKF, Escrow, CRWA Series 2017A	301,547.31
1108 · BOKF, Escrow, Kyle Series 2017B	271,284.66
1109 · BOKF, Escrow, SM Series 2017C	383,598.67
1110 · BOKF, Escrow, Buda Series 2017D	43,176.00
1111 · BOKF, Escrow, CRWA Series 2019A	24,647,408.82
1112 · BOKF, Escrow, Kyle Series 2019B	22,477,280.08
1113 · BOKF, Escrow, SM Series 2019C	28,647,468.09
1114 · BOKF, Escrow, Buda Series 2019D	3,980,496.22
1115 · BOKF, Escrow, CRWA Series 2020A	29,068,266.97
1116 · BOKF, Escrow, CRWA 2020A-LM67	8,345,978.47
1117 · BOKF, Escrow, Kyle Series 2020B	26,507,468.04
1118 · BOKF, Escrow, Kyle 2020B-LM68	7,605,820.37
1119 · BOKF, Escrow, SM Series 2020C	33,778,189.97
1120 · BOKF, Escrow, SM 2020C-LM69	9,686,044.76
1121 · BOKF, Escrow, BUDA Series 2020D	4,686,803.78
1122 · BOKF, Escrow, Buda 2020D-LM70	1,365,147.26
Total 1100 · Escrow Accounts	202,352,978.35
Total Checking/Savings	208,932,023.68
Accounts Receivable	
1201 · Accounts Receivable, GBRA	731,936.98
Total Accounts Receivable	731,936.98
Total Current Assets	209,663,960.66
Fixed Assets	
1405 · Engineering & Construction Cost	2,402,294.20
1420 · Projects in Progress (Cash)	
1420-01 · Legal Support	63,060.47
1420-02 · Hydrogeologic Support	178,252.75
1420-03 · PCCD Permitting	105,095.16
1420-04 · Kyle Water Model	25,000.00
1420-11 · Legal Support, GBRA	45,251.01
Total 1420 · Projects in Progress (Cash)	416,659.39

Alliance Regional Water Authority
Balance Sheet
As of July 31, 2021

	Jul 31, 21
1430 · Projects in Progress Eng (Cash)	
1430-02 · Engineering - Plumbing Plan	17,663.79
1430-03 · Engineering Fees-ROW	11,594.69
1430-05 · Engineering - Rate Study	50,760.00
1430-06 · DPR Study	59,880.00
1430-07 · Alignment Study	261,120.80
1430-08 · Prelim Engineering-Well Field	65,586.00
1430-09 · GCUWCD Monitoring Wells	192,607.50
1430-10 · 2017 SWIFT Funding Apps	23,107.96
1430-11 · Blanco Basin WW	41,880.00
1430-12 · Phase 1B Programming	107,761.14
1430-13 · ARWA-GBRA MOU Study	15,000.00
1430-14 · Phase 1A GIS	59,368.12
	906,330.00
Total 1430 · Projects in Progress Eng (Cash)	
1440 · Projects in Prog Eng. (Finance)	
1440-01 · Engineering-Phase 1A Pipeline	540,838.84
1440-02 · Engineering-Phase 1A Pump Stat	748,167.89
1440-03 · Engineering-ROW Acquisition	409,590.45
1440-04 · Phase 1A Const Observation	811,719.16
1440-05 · Phase 1A-Construction Trailer	56,909.97
1440-06 · Phase 1A Segment A Construction	1,734,150.32
1440-07 · Phase 1A BPS Construction	5,142,172.37
1440-08 · Phase 1A Segment B Construction	3,792,317.60
1440-15 · Land Acquisition Phase 1B	10,619,396.50
1440-16 · Phase 1B-Owners Rep	8,337,971.60
1440-17 · Phase 1B Environmental	2,654,722.26
1440-18 · Phase 1B Segment A Design	2,656,635.09
1440-19 · Phase 1B Segment B Design	2,520,427.02
1440-20 · Phase 1B Segment C Design	3,075,092.89
1440-21 · Phase 1B Segment D Design	2,181,565.49
1440-22 · Phase 1B Segment E Design	1,549,028.00
1440-23 · Phase 1B Land Attorney	779,829.21
1440-24 · Phase 1B Hydrogeology	450,683.15
1440-25 · Phase 1B WTP Design	4,466,549.32
1440-26 · Raw Water Infr.	1,457,947.00
1440-27 · Phase 1B Program Survey	2,959,372.50
1440-28 · Phase 1B BPS Design	2,517,014.94
1440-29 · GVEC Construction-in-Aid	1,740,143.30
1440-30 · Phase 1B Inline Tanks	87,116.93
1440-31 · Construction Mgmt & Inspection	352,589.59
1440-32 · Phase 1B Construction ARWA Only	1,854,875.00
	63,496,826.39
Total 1440 · Projects in Prog Eng. (Finance)	
1447 · Land & Easements	943,215.70
1448 · Capitalized Interest	
1448-51 · Cap Interest, CRWA Series 2015A	152,369.03
1448-52 · Cap Interest, Kyle Series 2015B	222,143.28
1448-53 · Cap Interest, CRWA Series 2017A	127,269.80
1448-54 · Cap Interest, Kyle Series 2017B	116,100.88
1448-55 · Cap Interest, SM Series 2017C	65,904.35
1448-56 · Cap Interest, Buda Series 2017D	9,576.21
	693,363.55
Total 1448 · Capitalized Interest	
Total Fixed Assets	68,858,689.23
Other Assets	
1900 · Deferred Outflow	20,688.14
	20,688.14
Total Other Assets	
TOTAL ASSETS	278,543,338.03

Alliance Regional Water Authority
Balance Sheet
As of July 31, 2021

08/17/21

Accrual Basis

	Jul 31, 21
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 · Accounts Payable	477,362.91
Total Accounts Payable	477,362.91
Credit Cards	
2006 · Chase Bank VISA Card	4,709.88
Total Credit Cards	4,709.88
Other Current Liabilities	
2102 · 401(a) Liability	3,011.20
2103 · Net Pension Liability	-2,332.00
2104 · Pension Deferred Inflows	1,479.00
2106 · Accrued Vacation	42,151.49
2300 · Accrued Costs	330,643.18
2350 · Accrued Interest Payable	
2351 · Accrued Int Payable, CRWA 2015A	27,148.21
2352 · Accrued Int Payable, Kyle 2015B	39,456.78
2353 · Accrued Int Payable, CRWA 2017A	107,049.03
2354 · Accrued Int Payable, Kyle 2017B	97,622.91
2355 · Accrued Int Payable, SM 2017C	79,530.88
2356 · Accrued Int Payable, Buda 2017D	11,310.75
2357 · Accrued Int Payable, CRWA 2019A	250,927.60
2358 · Accrued Int Payable, Kyle 2019B	228,951.91
2359 · Accrued Int Payable, SM 2019C	188,973.18
2360 · Accrued Int Payable, Buda 2019D	26,803.81
2361 · Accrued Int Payable, CRWA 2020A	657,494.76
2362 · Accrued Int Payable, Kyle 2020B	599,568.84
2363 · Accrued Int Payable, SM 2020C	419,259.10
2364 · Accrued Int Payable, Buda 2020D	59,375.16
Total 2350 · Accrued Interest Payable	2,793,472.92
Total Other Current Liabilities	3,168,425.79
Total Current Liabilities	3,650,498.58
Long Term Liabilities	
2501 · Bond Payable, CRWA Series 2015A	3,220,000.00
2502 · Bond Payable, Kyle Series 2015B	3,170,000.00
2503 · Bond Payable, CRWA Series 2017A	9,340,000.00
2504 · Bond Payable, Kyle Series 2017B	8,515,000.00
2505 · Bond Payable, SM Series 2017C	10,365,000.00
2506 · Bond Payable, Buda Series 2017D	1,475,000.00
2507 · Bond Payable, CRWA Series 2019A	26,530,000.00
2508 · Bond Payable, Kyle Series 2019B	24,200,000.00
2509 · Bond Payable, SM Series 2019C	30,800,000.00
2510 · Bond Payable, Buda Series 2019D	4,370,000.00
2511 · Bond Payable, CRWA Series 2020A	37,865,000.00
2512 · Bond Payable, Kyle Series 2020B	34,530,000.00
2513 · Bond Payable, SM Series 2020C	43,955,000.00
2514 · Bond Payable, Buda Series 2020D	6,225,000.00
Total Long Term Liabilities	244,560,000.00
Total Liabilities	248,210,498.58

10:44 AM

08/17/21

Accrual Basis

Alliance Regional Water Authority

Balance Sheet

As of July 31, 2021

	<u>Jul 31, 21</u>
Equity	
2925 · Net Investment in Capital Asset	19,754,427.98
2950 · Retained Earnings	6,088,578.07
Net Income	4,489,833.40
	<hr/>
Total Equity	30,332,839.45
	<hr/>
TOTAL LIABILITIES & EQUITY	<u>278,543,338.03</u>

Alliance Regional Water Authority
Profit Loss
For the One Month and Ten Months Ended July 31, 2021

	July 2021	October 2020 July 2021
Ordinary Income/Expense		
Income		
4010 · Project Contribution		
4011 · City of San Marcos	0.00	2,064,945.76
4012 · City of Kyle	0.00	1,424,514.94
4013 · City of Buda	76,265.06	371,817.62
4014 · Canyon Regional Water Authority	1,713,050.00	3,301,252.86
4015 · GBRA	0.00	4,256,689.54
Total 4010 · Project Contribution	1,789,315.06	11,419,220.72
4200 · Shared Water		
4210 · Shared Water, City of Buda	35,836.00	286,989.96
4211 · Shared Water, County Line SUD	15,490.00	15,490.00
Total 4200 · Shared Water	51,326.00	302,479.96
4250 · Non Potable Water Sales	6,309.08	35,159.96
4300 · Broadway Interest Income		
4311 · City of San Marcos	73.75	651.35
4312 · City of Kyle	60.37	549.48
4313 · City of Buda	4.99	56.45
4314 · Canyon Regional Water Authority	94.46	673.30
Total 4300 · Broadway Interest Income	233.57	1,930.58
4350 · Escrow Accounts Income		
4351 · BOKF, CRWA Series 2015A	5.01	53.68
4352 · BOKF, Kyle Series 2015B	3.32	35.55
4353 · BOKF, CRWA Series 2017A	4.51	204.19
4354 · BOKF, Kyle Series 2017B	4.05	185.63
4355 · BOKF, SM Series 2017C	5.73	242.47
4356 · BOKF, Buda Series 2017D	0.64	31.89
4357 · BOKF, CRWA Series 2019A	368.25	4,085.03
4358 · BOKF, Kyle Series 2019B	335.83	3,725.36
4359 · BOKF, SM Series 2019C	428.03	4,747.86
4360 · BOKF, Buda Series 2019D	59.47	660.03
4361 · BOKF, CRWA Series 2020A	434.33	3,407.97
4362 · BOKF, CRWA Series 2020A-LM67	124.70	978.47
4363 · BOKF, Kyle Series 2020B	396.06	3,221.05
4364 · BOKF, Kyle Series 2020B-LM68	113.64	778.36
4365 · BOKF, SM Series 2020C	504.70	4,104.47
4366 · BOKF, SM Series 2020C-LM69	144.73	991.26
4367 · BOKF, Buda Series 2020D	70.03	569.82
4368 · BOKF, Buda Series 2020D-LM70	20.40	139.72
Total 4350 · Escrow Accounts Income	3,023.43	28,162.81
4370 · TexStar Interest Income		
4371 · City of San Marcos	2.50	448.72
4372 · City of Kyle	1.96	352.50
4373 · City of Buda	0.35	63.55
4374 · Canyon Regional Water Authority	2.15	386.53
Total 4370 · TexStar Interest Income	6.96	1,251.30
Total Income	1,850,214.10	11,788,205.33

Alliance Regional Water Authority Profit Loss

For the One Month and Ten Months Ended July 31, 2021

	<u>July 2021</u>	<u>October 2020 July 2021</u>
Expenses		
6000 · Groundwater Reservation Costs	108,139.44	1,097,691.35
6010 · Shared Water Costs		
6015 · Shared Water, City of Kyle	23,304.07	213,331.57
6020 · Shared Water, City of San Marcos	21,710.00	141,475.96
	<hr/>	<hr/>
Total 6010 · Shared Water Costs	45,014.07	354,807.53
6200 · Plant Operations & Maintenance	540.47	12,897.77
7125 · Auditing fees	0.00	10,930.00
7210 · Bank Fees	304.83	3,015.95
7220 · Escrow and Paying Agent Fees	0.00	3,150.00
7240 · Bond Issue Costs		
7240-11 · Bond Issue Costs - CRWA 2020A	0.00	454,591.00
7240-12 · Bond Issue Costs - Kyle 2020B	0.00	420,161.00
7240-13 · Bond Issue Costs - SM 2020C	0.00	495,311.00
7240-14 · Bond Issue Costs - Buda 2020D	0.00	173,234.95
	<hr/>	<hr/>
Total 7240 · Bond Issue Costs	0.00	1,543,297.95
7250 · Interest Expense		
7250-51 · Interest Expense - CRWA 2015A	4,921.50	50,014.58
7250-52 · Interest Expense - Kyle 2015B	7,173.96	71,739.59
7250-53 · Interest Expense - CRWA 2017A	19,463.46	194,634.59
7250-54 · Interest Expense - Kyle 2017B	17,749.62	177,496.23
7250-55 · Interest Expense - SM 2017C	14,460.16	144,601.64
7250-56 · Interest Expense - Buda 2017D	2,056.50	20,565.00
7250-57 · Interest Expense - CRWA 2019A	45,623.20	456,232.05
7250-58 · Interest Expense - Kyle 2019B	41,627.62	416,276.23
7250-59 · Interest Expense - SM 2019C	34,358.76	343,587.54
7250-60 · Interest Expense - Buda 2019D	4,873.42	48,734.18
7250-61 · Interest Expense - CRWA 2020A	101,153.04	657,494.76
7250-62 · Interest Expense - Kyle 2020B	92,241.36	599,568.84
7250-63 · Interest Expense - SM 2020C	64,501.40	419,259.10
7250-64 · Interest Expense - Buda 2020D	9,134.64	59,375.16
	<hr/>	<hr/>
Total 7250 · Interest Expense	459,338.64	3,659,579.49
7325 · Dues	0.00	7,655.00
7350 · Insurance - Liability, E&O	0.00	2,422.98
7400 · Legal Fees	8,623.80	67,831.89
7410 · Newspaper Public Notices	0.00	3,556.37
7425 · Contract Services-Lobbyist	6,000.00	60,000.00
7430 · Agency Mgmt Public Relations	7,066.09	35,420.52
7440 · Region L Contributions	0.00	484.53
7450 · Permit & Fees	0.00	74,454.43
7500 · Supplies	1,014.63	13,932.31
7600 · Telephone, Telecommunications	161.91	956.98
7700 · Travel, Conferences & Meetings	54.05	902.36

Alliance Regional Water Authority Profit Loss

For the One Month and Ten Months Ended July 31, 2021

	<u>July 2021</u>	<u>October 2020 July 2021</u>
7800 · Employee Expenses		
7810 · Salaries and wages	24,298.30	268,237.30
7820 · Auto Allowance	969.24	10,661.64
7821 · Phone Allowance	207.70	2,284.70
7830 · Payroll taxes	1,917.14	19,364.80
7840 · Employee Insurance	2,507.04	24,544.59
7850 · Retirement	1,737.42	19,227.74
7860 · Licenses & Permits	60.00	1,063.75
Total 7800 · Employee Expenses	<u>31,696.84</u>	<u>345,384.52</u>
Total Expenses	<u>667,954.77</u>	<u>7,298,371.93</u>
Net Ordinary Income	<u>1,182,259.33</u>	<u>4,489,833.40</u>
Net Income	<u><u>1,182,259.33</u></u>	<u><u>4,489,833.40</u></u>

**Alliance Regional Water Authority
Chase VISA Credit Card Transactions**

July 31, 2021

Type	Date	Name	Split	Amount	Balance
2006 · Chase Bank VISA Card					8,420.23
Credit Card Charge	06/24/2021	Barton Publications	7410 · Newspaper Public Notic...	945.50	9,365.73
Credit Card Charge	06/24/2021	Chuy's	7700 · Travel, Conferences & ...	29.00	9,394.73
Credit Card Charge	06/25/2021	Adobo Acropro	7500 · Supplies	16.99	9,411.72
Credit Card Charge	06/26/2021	Squarespace Inc	7500 · Supplies	28.15	9,439.87
Credit Card Charge	06/29/2021	Henrys Restaurant	7700 · Travel, Conferences & ...	24.59	9,464.46
Credit Card Charge	06/29/2021	Schmidt & Sons	6200 · Plant Operations & Mai...	193.75	9,658.21
Credit Card Charge	07/01/2021	Stamps Com	7500 · Supplies	18.17	9,676.38
Credit Card Charge	07/01/2021	Avery's Kitchen	7700 · Travel, Conferences & ...	31.77	9,708.15
Credit Card Charge	07/02/2021	Verizon	7600 · Telephone, Telecommu...	161.91	9,870.06
Credit Card Charge	07/06/2021	Pedernales Electric	6200 · Plant Operations & Mai...	102.52	9,972.58
Credit Card Charge	07/06/2021	United Site Service	1440-05 · Phase 1A-Constructi...	255.65	10,228.23
Credit Card Charge	07/06/2021	Grainger	7500 · Supplies	43.53	10,271.76
Credit Card Charge	07/06/2021	Grainger	7500 · Supplies	26.79	10,298.55
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	1.25	10,299.80
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	50.00	10,349.80
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	50.00	10,399.80
Credit Card Charge	07/08/2021	Schlotzsky's	7700 · Travel, Conferences & ...	22.28	10,422.08
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	50.00	10,472.08
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	1.25	10,473.33
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	1.25	10,474.58
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	1.25	10,475.83
Credit Card Charge	07/08/2021	Hays County Trans Dept	1440-20 · Phase 1B Segment ...	50.00	10,525.83
Credit Card Charge	07/10/2021	Rackspace	7500 · Supplies	232.00	10,757.83
Credit Card Charge	07/13/2021	Peerless Events & Tents	7430 · Agency Mgmt Public R...	1,209.74	11,967.57
Credit Card Charge	07/13/2021	Mobile Mini	1440-05 · Phase 1A-Constructi...	598.45	12,566.02
Credit Card Charge	07/13/2021	Big John Site Services	7430 · Agency Mgmt Public R...	317.50	12,883.52
Credit Card Charge	07/13/2021	Top Gunn Equipment	6200 · Plant Operations & Mai...	364.00	13,247.52
Credit Card Charge	07/13/2021	HEB	6200 · Plant Operations & Mai...	19.51	13,267.03
Credit Card Charge	07/13/2021	Home Depot	6200 · Plant Operations & Mai...	54.44	13,321.47
Credit Card Charge	07/14/2021	UPS Store	7500 · Supplies	12.00	13,333.47
Check	07/15/2021	Chase	1005 · Broadway Checking (80...	-9,365.73	3,967.74
Credit Card Charge	07/16/2021	Rackspace	7500 · Supplies	115.30	4,083.04
Credit Card Charge	07/17/2021	UPS Store	7500 · Supplies	6.00	4,089.04
Credit Card Charge	07/19/2021	Fedex	7500 · Supplies	26.54	4,115.58
Credit Card Charge	07/20/2021	Training	7860 · Licenses & Permits	60.00	4,175.58
Credit Card Charge	07/20/2021	Grainger	7500 · Supplies	84.70	4,260.28
Credit Card Charge	07/21/2021	In-Teed Shirts	7500 · Supplies	244.60	4,504.88
Credit Card Charge	07/22/2021	Solve Networks	7500 · Supplies	205.00	4,709.88
Total 2006 · Chase Bank VISA Card				-3,710.35	4,709.88
TOTAL				-3,710.35	4,709.88

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- E.3** Consider adoption of Resolution 2021-08-25-001 authorizing the Executive Director to execute all necessary agreements on behalf of the Authority to provide for utility services on all property owned by the Authority. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The Authority owns fee simple property for some of its core infrastructure. From time to time the facilities may require utilities, including water, sewer, gas, and/or telecom services either on a permanent basis or on a temporary basis during construction. Approval of the attached resolution would allow the Executive Director to execute any necessary agreements to provide for the utility services.

Attachment(s)

- Resolution 2021-08-25-001

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-001 authorizing the Executive Director to execute all necessary agreements on behalf of the Authority to provide for utility services on all property owned by the Authority.



RESOLUTION NO. 20210825-001

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS AUTHORIZING THE EXECUTIVE DIRECTOR, GRAHAM MOORE, TO EXECUTE ALL NECESSARY AGREEMENTS ON BEHALF OF THE AUTHORITY TO PROVIDE UTILITY SERVICES ON ALL PROPERTY OWNED BY THE AUTHORITY; AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. The Alliance Regional Water Authority ("Alliance Water or Authority") currently owns, or soon will own, property in Caldwell, Guadalupe and Hays counties where it has or will have infrastructure necessary to meet Alliance Water's mission.
2. The various properties require various utilities, including electricity, water, sewer, natural gas, and/or telecommunications either on temporary or a permanent basis in order to meet Alliance Water's mission.
3. In order to activate the utilities noted above, the various utility companies require agreements with Alliance Water.
4. Alliance Water's Executive Director, Graham Moore, is the day-to-day executive of Alliance Water responsible for carrying out the mission of the Authority.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The Executive Director, Graham Moore, is authorized to execute all necessary utility agreements on behalf of the Alliance Regional Water Authority to receive utility service on the Authority's property.

SECTION 2. This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: August 25, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

G.1 Report on Technical Committee activities. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The following items were discussed by the Committee at its 8/20 meeting:

- Received an update on the Phase 1B program (Item I.4).
- Recommended contingent award of a construction contract to MWH Constructors, Inc. for the Booster Pump Station and Delivery Points Project (Item I.2)
- Recommended an approval of a work order with Freese & Nichols, Inc. for Construction Administration services associated with the Phase 1B Booster Pump Station and Delivery Points Project. (Item I.3)
- Recommended approval of a work order with CP&Y, Inc. for SCADA Programming services associated with the Phase 1B Infrastructure. (Item I.7)
- Discussed the Considerations for Operations of the Authority's Water System (Item I.8).
- Received an update on the 87th legislative session (Item I.11).
- Received an update on area water meetings (Item G.2).

Board Decision(s) Needed:

- None.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- G.2** Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and Capital Area Planning Group activities.
-

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD met on August 10th – they discussed their draft budgets for the next year. In the past month the Authority received its disbursement check from the GCUWCD for the excess funds from the Monitoring Agreement.

Plum Creek Conservation District (PCCD)

The PCCD met on August 17th – nothing affecting the Authority was on the agenda.

Groundwater Management Area 13

No update.

Region L Planning Group

Region L held a meeting on August 5th. The group decided to slow down the process for selection of a technical consultant for the current planning cycle. The final decision is expected to be made at the November meeting.

Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities

No update.

Board Decision(s) Needed:

- None.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- H. EXECUTIVE DIRECTOR AND LEGAL COUNSEL REPORTS - Update on future meeting dates, locations, status of Authority procurements, Executive Director activities, other operational activities and the status of legal issues, where no action is required. ~ *Graham Moore, P.E., Executive Director / Mike Gershon, Lloyd Gosselink Rochelle & Townsend, P.C.*

EXECUTIVE DIRECTOR

Log and Calendar of Events

- Attached is the log of activities for July along with the 3-month look ahead calendar for the Executive Director.

**Executive Director
Log of Activities**

July									
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
				<i>1-Jul</i>	<i>2-Jul</i>	<i>3-Jul</i>			
				Weekly ROW Call	Land acquisition discussion w/ K-H				
				Lunch w/ Joan Wilkinson	WTP Docs & Pre-Con				
				Seg A & BPS Pre-Proposal Mtg					
				Signing Docs / Checks, etc.					
				Buda - New Braunfels					
				61					
<i>4-Jul</i>	<i>5-Jul</i>	<i>6-Jul</i>	<i>7-Jul</i>	<i>8-Jul</i>	<i>9-Jul</i>	<i>10-Jul</i>			
	HOLIDAY	Ph 1B Monthly Check-In Mtg	Mtg w/ CRWA re: Maxwell	City of Kyle development	Mtg w/ Evans				
		Land acquisition coordination	GBRA invoices	Work order coordination	WTP CA coordination				
			PUAs	June financial info	Tech Cmte Agenda				
<i>11-Jul</i>	<i>12-Jul</i>	<i>13-Jul</i>	<i>14-Jul</i>	<i>15-Jul</i>	<i>16-Jul</i>	<i>17-Jul</i>			
	Weekly ROW Call	PR update	Tech Cmte mtg	Gershon catchup	Project Advisory Cmte				
	Land acquisition coordination	GCUWCD Board Mtg	PR Coordination	Sowa coordination	Phase 1C/1D Tech Memo Review				
	CRWA Board Meeting		Request info from consultants	Land acquisition coordination					
				AWWA/WEAT SA Presentation					
				WTP Pre-Con					
<i>18-Jul</i>	<i>19-Jul</i>	<i>20-Jul</i>	<i>21-Jul</i>	<i>22-Jul</i>	<i>23-Jul</i>	<i>24-Jul</i>			
	PTO	PTO	PTO	PTO	PTO				
<i>25-Jul</i>	<i>26-Jul</i>	<i>27-Jul</i>	<i>28-Jul</i>	<i>29-Jul</i>	<i>30-Jul</i>	<i>31-Jul</i>			
	Land acquisition coordination	Public relations check-in	CRWA Board of Managers mtg	Seg A & BPS Proposal Review Prep	Administrative Committee mtg				
	Board agenda/packet	Land acquisition cost projections	ARWA Board Mtg	Weekly ROW Call	SCADA Programming discussion				
				Land acquisition coordination					

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.1** Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program recent bid openings and construction budgets. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

Attached is a presentation regarding the recent bid openings for the Booster Pump Station Delivery Pont and Segment A projects. The Booster Pump Station project includes a recommendation for awarding the contract.

Attachment(s)

- Attached is a presentation regarding the recent bid openings for the Booster Pump Station Delivery Pont and Segment A projects. The Booster Pump Station project includes a recommendation for awarding the contract.

Board Decision(s) Needed:

- Possible direction to Staff.

Alliance Regional Water Authority

Booster Pump Station & Segment A Bid Openings

August 25, 2021



1

Meeting Agenda

Booster Pump Station

- Summary of Proposals Received
- Alternative Bid Items
- Review Team Total Combined Score
- Recommendation

Segment A Pipeline

- Summary of Proposals Received

Projected Budget Implications



2

Booster Pump Station

Summary of Proposals Received

Proposal Price	Alt Description	Proposal Company		
		Archer Western	MWH Construction	Thalle
Base Proposal		\$16,610,000.00	\$16,250,331.00	\$16,386,000.00
Alt A	Ductile Iron	\$3,938,000.00	\$3,011,000.00	\$4,235,000.00
Alt B	Steel Pipe	\$4,577,000.00	\$3,843,000.00	\$7,220,000.00
Alt C	Reinforced Concrete	\$4,864,000.00	\$4,297,000.00	\$5,466,000.00
Alt D	5.0 MG Storage Tank	\$3,538,000.00	\$3,498,000.00	\$3,830,000.00
Savings if Awarded Both				(\$1,100,00.00)
Recommended Option (Base + Alt A + Alt D + Savings)		\$21,084,000.00	\$19,759,331.00	\$20,151,000.00



Criteria for Selection

- Proposal Price (40 Points)
- Quality Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)
- Key Personnel (15 Points)
- Project Approach (15 Points)
- Safety Record (5 Points)
- Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)



Review Team Total Combined Score

Criteria	Archer Western	MWH Construction	Thalle
Proposal Price (40 Points)	36.1	39.6	35.2
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)	18.8	16	13.5
Key Personnel (15 Points)	13.9	12	10.2
Project Approach (15 Points)	13.6	13.3	9.6
Safety Record (5 Points)	4.4	3.9	3.7
Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)	1	4.6	2.6
Total (100 Points Possible)	87.8	89.4	74.8



ARWA-GBRA Booster Pump Station Cost Split

Proposal Item	Cost Split				
	MWH Constructors	ARWA (%)	GBRA (%)	ARWA Cost	GBRA Cost
Base Bid	\$15,020,331.00	60.27	39.73	\$9,052,850.33	\$5,967,480.67
Allowances	\$1,230,000.00	95.42	4.58	\$1,173,619.28	\$56,380.72
Sub-Total	\$16,250,331.00			\$10,226,469.61	\$6,023,861.39
Alt A	\$3,011,000.00	64.49	35.51	\$1,941,793.90	\$1,069,206.10
Alt D	\$3,948,000.00	38.35	61.65	\$1,341,460.39	\$2,156,539.61
TOTAL	\$19,759,331.00			\$12,359,243.29	\$7,400,087.71

- ARWA Budget for BPS Construction = \$14,062,000



Recommendation

- It is the recommendation that **MWH Constructors** be selected as the General Contractor for the Alliance Regional Water Authority Booster Pump Station and Delivery Points Projects.
- Award Bid Alternative No. A for **ductile iron** yard piping.
- Award Bid Alternative No. D for increasing the ground storage tank to a **5 million gallon** storage tank.



Segment A Summary of Proposals Received

Proposal Price	Proposal Company						
	BRH Garver	Cash	Garney	McKee	Primoris	SJ Louis	Thalle
Base Proposal	\$7,187,628.00	\$6,341,812.45	\$10,758,104.59	\$9,017,848.50	\$13,028,656.60	\$10,174,072.07	\$9,376,690.00
Base + Alt A (42" DI)	No Bid	No Bid	\$57,741,206.09	\$65,868,998.50	No Bid	\$61,007,916.26	\$55,320,518.00
Base + Alt B (42" CSC)	\$46,220,446.00	\$43,409,914.45	\$47,348,257.34	\$44,143,760.50	No Bid	\$49,361,367.90	\$45,146,104.00
Base + Alt C (42" Steel)	\$47,720,091.00	\$44,086,774.45	\$45,580,321.93	\$46,586,284.50	\$57,842,734.60	\$49,812,634.80	\$44,932,622.00
Base + Alt D (48" DI)	No Bid	No Bid	\$69,788,431.19	\$70,230,648.50	No Bid	\$70,519,097.16	\$67,042,418.00
Base + Alt E (48" CSC)	\$51,422,168.00	\$49,152,432.45	\$52,996,121.47	\$50,603,223.50	No Bid	\$54,172,434.76	\$50,551,108.00
Base + Alt F (48" Steel)	\$51,669,693.00	\$48,217,059.45	\$50,448,485.65	\$56,796,766.50	\$62,669,279.00	\$54,076,738.14	\$48,340,297.00

Budget Implications of Pipeline Bids

Projected Pipeline Cost Increases					
	Budget	Projected	Difference	ARWA Increase	GBRA Increase
Segment A	\$33,700,000	\$50,500,000	\$16,800,000	\$1,400,000	\$15,400,000
Segment B	\$31,900,000	\$41,300,000	\$9,400,000	\$6,200,000	\$3,300,000
Segment D	\$39,100,000	\$49,600,000	\$10,500,000	\$7,900,000	\$2,600,000
Segment E	\$11,500,000	\$14,000,000	\$2,500,000	\$1,600,000	\$900,000
Subtotal (Shared)	\$116,200,000	\$155,400,000	\$39,200,000	\$17,100,000	\$22,200,000
Segment C	\$46,500,000	\$55,600,000	\$9,100,000	\$9,100,000	\$0
Segment E (ARWA Only)	\$4,600,000	\$11,000,000	\$6,400,000	\$6,400,000	\$0
Subtotal (ARWA Only)	\$51,100,000	\$66,600,000	\$15,500,000	\$15,500,000	\$0
TOTAL	\$167,300,000	\$222,000,000	\$54,700,000	\$32,600,000	\$22,200,000

9

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.2** Consider adoption of Resolution 2021-08-25-002 awarding a construction contract to MWH Constructors, Inc. for the Phase 1B Booster Pump Station and Delivery Points Project, contingent upon approval of the award by the Texas Water Development Board. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

Alliance Water sought proposals for the Phase 1B Booster Pump Station and Delivery Points Project starting in June with proposals submitted on August 3, 2021. In accordance with the Authority's policies and Texas Water Development Board (TWDB) requirements, the project was advertised for two consecutive weeks in the Hays Free Press and in the Lockhart Post-Register.

The project includes a new outdoor pump station with seven pumps and provisions for three future pumps, electrical, SCADA and instrumentation, new flow meter vaults, on-site yard piping, detention pond and drainage improvements and a 4 million gallon storage tank. Three different yard piping materials were included as add alternates: ductile iron, concrete steel cylinder pipe and welded steel pipe. Finally, a bid alternate to install a 5 million gallon storage tank was included.

A total of three proposals were received. The bidding documents utilized a Competitive Sealed Proposal (CSP) process whereby cost is considered but so too are the qualifications of the contractor to perform the work. MWH Constructors was the lowest bidder and also scored the best when all criteria were considered.

As the design engineer, Freese & Nichols, Inc. has recommended the project be awarded to MWH Constructors, Inc. – the letter will be sent separately.

The Technical Committee and Project Advisory Committees both recommended that the ductile iron yard piping additive alternate be selected along with the bid alternate to increase the tank size to 5 million gallons.

The Alliance Water Board will be asked to approve the contract, contingent upon approval by the TWDB. This is a requirement of all projects that are funded by the TWDB. The proposal information is in the process of being submitted to the TWDB for their review and approval. After the TWDB approves the bidding, the final contracts, bonds and insurance will be submitted to the TWDB for their review and approval, after which the project will officially be awarded and the notice to proceed will be scheduled.

The award of this contract will utilize the TWDB funding that has already been issued to Alliance Water.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

Attachment(s)

- Resolution 2021-08-25-002
- Review Committee Combined Scoring Sheet

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-002 awarding a construction contract to MWH Constructors, Inc. for the Phase 1B Booster Pump Station and Delivery Points Project, contingent upon approval of the award by the Texas Water Development Board.



ALLIANCE WATER

RESOLUTION NO. 20210825-002

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS AWARDING A CONTRACT TO MWH CONSTRUCTORS, INC. FOR THE PHASE 1B BOOSTER PUMP STATION AND DELIVERY POINTS PROJECT CONTINGENT UPON APPROVAL OF THE AWARD BY THE TEXAS WATER DEVELOPMENT BOARD AND CONTINGENT UPON THE BIDDER'S TIMELY SUBMISSION OF SUFFICIENT BONDS AND INSURANCE IN ACCORDANCE WITH THE BID DOCUMENTS FOR THE PROJECT; AUTHORIZING THE CHAIR OF THE BOARD TO EXECUTE CONTRACT DOCUMENTS AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. The Alliance Regional Water Authority ("Alliance Water") and the Guadalupe-Blanco River Authority ("GBRA") entered into a Water Treatment and Transmission Agreement in June 2018 whereby, in exchange for payment by GBRA, Alliance Water would treat and transmit water to GBRA for their use.

2. Alliance Water sought proposals for the Phase 1B Booster Pump Station and Delivery Points Project (the "Project") in accordance with Alliance Water's purchasing policies and the Texas Water Development Board ("TWDB") guidelines.

3. The Project request for proposals included a Base Proposal Amount and four Add Alternate Proposal Items, three of which provide options in materials for the yard piping and the fourth is for a 5 million gallon ground storage tank instead of the base bid of a 4 million gallon ground storage tank.

4. Alliance Water received three proposals for the Project which were reviewed and scored by a committee that determined the proposal from MWH Constructors, Inc. ("MWH") provides the best value to Alliance Water.

5. Freese & Nichols, Inc., the design engineer for the Project, the Project Advisory Committee formed between Alliance Water and GBRA and the Authority's Technical Committee all recommend that Alliance Water award a contract to MWH Constructors, Inc. for the Project.

6. Alliance Water Staff has submitted the bidding information to TWDB to allow TWDB to review and approve the proposed contract, as required for projects funded by the TWDB.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The award of a construction contract to MWH Constructors, Inc. for the Phase 1B Booster Pump Station and Delivery Points Project in the Base Proposal

Resolution 20210825-002
Phase 1B Booster Pump Station and Delivery Points Project Contract Award

Plus Allowances Amount, Less Bid Item A-04 in the amount of \$13,250,331.00 along with Add Alternates A-A-01 and A-D-01 in the amounts of \$3,011,000.00 and \$3,498,000.00 respectively, for a total award amount of \$19,759,331.00, contingent upon the bidder's timely submission of sufficient bonds and insurance in accordance with the bid documents for the Project and contingent upon approval of the proposed contract by the TWDB.

SECTION 2. The Project is funded through funds secured through the Texas Water Development Board and based on the Water Treatment and Delivery Agreement with the Guadalupe-Blanco River Authority.

SECTION 3. The Chair of Alliance Water's Board of Directors, Chris Betz, is authorized to execute the contract documents for the Project on behalf of Alliance Water.

SECTION 4. This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: August 25, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

Booster Pump Station & Delivery Point Review

	Archer Western	MWH	Thalle
Proposal Price - The lowest responsible Offeror's Proposal Price determines the baseline. All other Offeror's Proposal Price will be awarded points accordingly (40 Points)	36.1	39.6	35.2
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)	18.8	16.0	13.5
Key Personnel - will be evaluated for experience with the type and scope of work required for this Project, previous work history as a team, definition of roles in previous experience, and length of time with the company. (15 Points)	13.9	12.0	10.2
Project Approach - consider the Offeror's proposed number of crews, equipment assigned to each crew, and the Offeror's overall approach to completing the project within the specified time. (15 Points)	13.6	13.3	9.6
Safety Record (5 Points)	4.4	3.9	3.7
Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)	1.0	4.6	2.62
Total (100 Points Possible)	87.8	89.4	74.9

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.3** Consider adoption of Resolution 2021-08-25-003 confirming the rankings of the submittals in response to the competitive sealed proposal for the Phase 1B Segment A Project and authorizing Staff to enter negotiations with the top scoring contractor.
~ *Graham Moore, P.E., Executive Director*
-

Background/Information

Alliance Water sought proposals for the Phase 1B Segment A Pipeline Project starting in June with proposals submitted on August 3, 2021. In accordance with the Authority's policies and Texas Water Development Board (TWDB) requirements, the project was advertised for two consecutive weeks in the Hays Free Press and in the Lockhart Post-Register.

The project includes approximately 17-miles of 42-inch/48-inch pipeline and related appurtenances and parallel fiber optic installation from the Authority's Well Field through to the Booster Pump Station. The bid was setup for additive alternates of pipe material (ductile iron, concrete steel cylinder and welded steel) in both 42-inch and 48-inch diameters.

A total of seven proposals were received. The bidding documents utilized a Competitive Sealed Proposal (CSP) process whereby cost is considered but so too are the qualifications of the contractor to perform the work. The proposals were reviewed by a committee of five members – the total scoring for the group is attached. The CSP process allows for the possibility of negotiating changes in scope and cost with the highest scoring offeror.

The Technical Committee and Project Advisory Committees both recommended that the rankings provided by the review committee be affirmed and that Staff be authorized to enter into negotiations with the highest scoring offeror.

Attachment(s)

- Resolution 2021-08-25-003.
- GBRA Letter Requesting Seg A Pipeline Increase to 48-inch

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-003 confirming the rankings of submittals in response to the Segment A project and authorizing Staff to enter into negotiations with the top scoring contractor.



ALLIANCE WATER

RESOLUTION NO. 20210825-003

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS CONFIRMING THE RANKING OF THE RESPONSES TO THE AUTHORITY'S REQUEST FOR COMPETITIVE SEALED PROPSALS FOR THE PHASE 1B SEGMENT A PROJECT; AUTHORIZING STAFF TO ENTER INTO NEGOTIATIONS WITH THE TOP SCORING CONTRACTOR; AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. The Alliance Regional Water Authority ("Alliance Water") is developing a new regional water supply project known as the Phase 1B Program. The Phase 1B Program consists of nine different construction contracts in order to develop, treat and deliver Carrizo water to its customers. One of the nine projects is the Phase 1B Treated Pipeline Segment A Project (the "Project").

2. In February 2018 Alliance Water hired the engineering firm Kimley-Horn & Associates, Inc. to serve as the Program Manager for the Phase 1B Program.

3. In August 2019 Alliance Water hired the engineering firm Lockwood, Andrews & Newnam, Inc. to act as the design engineer on the project, specifically for the preparation of engineering and contractual documents for the selection of a contractor for the Project.

4. Alliance Water has chosen to utilize the Competitive Sealed Proposal method for selection of the contractor that provides the best overall value to the Authority for each construction project. The design engineer prepared the Request for Competitive Sealed Proposals in accordance with Government Code Section 2269 to include the selection criteria and relative weighting of the selection criteria to be utilized.

5. Alliance Water received and read aloud the seven offers in response to the Project on August 3rd, 2021 at the Buda City Hall.

6. Alliance Water had a committee of five individuals review the seven offers for the Project in accordance with the criteria and weighting identified in the request for proposals. The Request for Proposals included additive alternates for three different pipe materials (ductile iron, concrete steel cylinder and welded steel) and in two different pipe diameters (42-inch and 48-inch). The evaluation was based on the selection of 48-inch welded steel pipe. Exhibit A attached to this Resolution indicates the committee's total combined score for the offers.

7. In accordance with Government Code Section 2269.155, Alliance Water desires to discuss with the highest scoring Offeror possible scope and/or time modifications to the and any resulting price change(s) associated with the modification(s).

Resolution 20210825-003
Confirm Rankings of Responses to Segment A Request for Competitive Sealed
Proposals

**BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL
WATER AUTHORITY:**

SECTION 1. The ranking of the seven offers received for the Phase 1B Treated Pipeline Segment A Project as indicated in Exhibit A to this Resolution is confirmed.

SECTION 2. The Alliance Water Executive Director, Graham Moore, is authorized to enter into discussions with the highest scoring offeror, Garney Companies, Inc., to discuss possible modifications to the Contract.

SECTION 3. A final contract must be brought back to the Alliance Water Board of Directors for consideration of award at a future public meeting.

SECTION 4. This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: August 25, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

Exhibit A - Scoring of Offers for Phase 1B Treated Pipeline Segment A Project

Reviewer	BRH-Garver	Cash	Garney	McKee	Primoris	SJ Louis	Thalle
Proposal Price - The lowest responsible Offeror's Proposal Price determines the baseline. All other Offeror's Proposal Price will be awarded points accordingly (40 Points)	31.3	39.4	34.2	25.4	16.5	28.3	38.5
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (20 Points)	11.8	10.8	19.2	11.6	12.0	15.8	15.2
Key Personnel - will be evaluated for experience with the type and scope of work required for this Project, previous work history as a team, definition of roles in previous experience, and length of time with the company. (15 Points)	11.0	9.6	14.4	10.2	9.8	11.6	11.6
Project Approach - consider the Offeror's proposed number of crews, equipment assigned to each crew, and the Offeror's overall approach to completing the project within the specified time. (15 Points)	12.0	9.8	14.0	13.2	8.4	11.2	10.4
Safety Record (5 Points)	3.6	4.0	4.4	3.6	1.4	3.8	4.2
Historically Underutilized Business (HUB) Program Compliance Plan (5 Points)	4.6	2.4	4.8	4.0	4.6	1.0	2.0
Total (100 Points Possible)	74.3	76.0	91.0	68.0	52.7	71.7	81.9

August 17, 2021

Mr. Graham Moore, P.E., Executive Director
Alliance Regional Water Authority
630 E. Hopkins
San Marcos, Texas 78666

Re: Carrizo Aquifer Water Supply, Treatment, and Transmission System Project
Phase 1B Treated Pipeline Segment A (Project No. IFB-2021-002) Construction Contract

Dear Mr. Moore,

GBRA would like to request that the alternate bid item Alternate F 48-inch Steel Pipeline be accepted and included in the Phase 1B Treated Pipeline Segment A (Project No. IFB-2021-002) construction contract. This would increase the capacity for GBRA in that pipeline segment for which GBRA would be responsible for its cost allocation pursuant to the agreement between GBRA and Alliance Water.

GBRA appreciates the relationship with Alliance Water in developing the Carrizo Aquifer treatment plant and related transmission system as a water supply for the fast growing region between Austin and San Antonio. You can contact me at 830-379-5822 or by email to discuss this request or any assistance GBRA can provide Alliance Water.

Sincerely,



Kevin Patteson
General Manager/CEO

Main Office: 933 East Court Street ~ Seguin, Texas 78155
830-379-5822 ~ 800-413-4130 ~ 830-379-9718 fax ~ www.gbra.org



Guadalupe-Blanco River Authority
flowing solutions

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.4** Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on their recent activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Program Update – August 25, 2021
- Kimley-Horn Monthly Summary of Activities for July 2021

Board Decision(s) Needed:

- None.



Phase 1B Program Update

Board of Directors Meeting
August 25, 2021



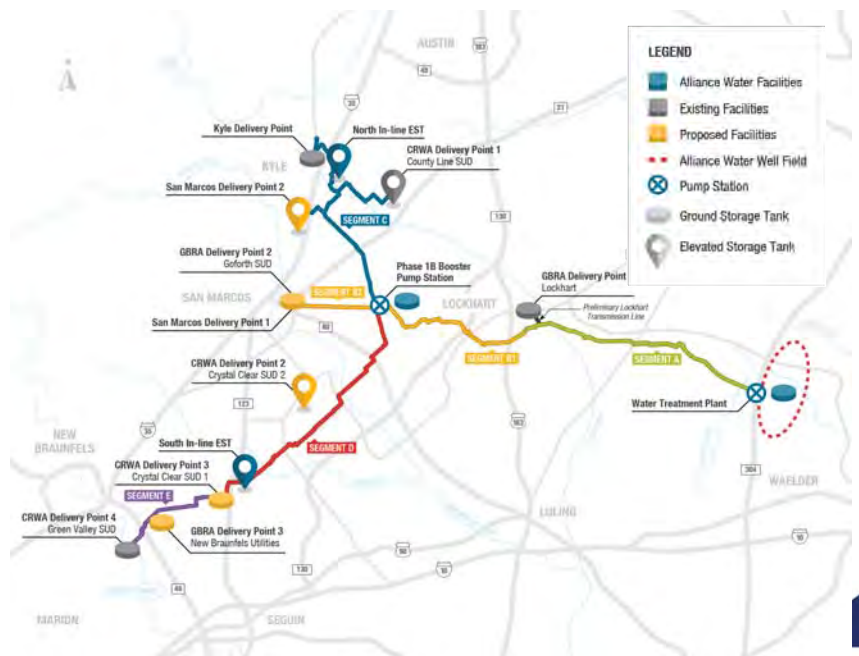
ALLIANCE WATER

PRESENTED BY **Kimley»Horn**
Expect More. Experience Better.

Ongoing Progress

► Design Milestone Status

- Design Submittals
 - Pipeline Segment C (100%) – August
 - Pipeline Segment E (100%) – September
 - Inline EST (60%) – September
- TWDB Reviews
 - Segment A
 - Approved for Procurement
 - Anticipated Release of Funds for Design Effort
 - Booster Pump Station & Delivery Points
 - Approved for Procurement
 - Segment B
 - Engineering Feasibility Report, Environmental Data Report, and Plans/Specifications Under Review



Ongoing Progress

► Procurement/Construction Status

- Water Treatment Plant & Raw Water Infrastructure
 - Contractor has mobilized to the site
 - Upcoming work – site clearing

- Pipeline Segment A / Booster Pump Station & Delivery Points
 - Proposals Received (separate agenda item)
 - Anticipated NTP – October 15

- Pipeline Segment B
 - Preparing for Bidding



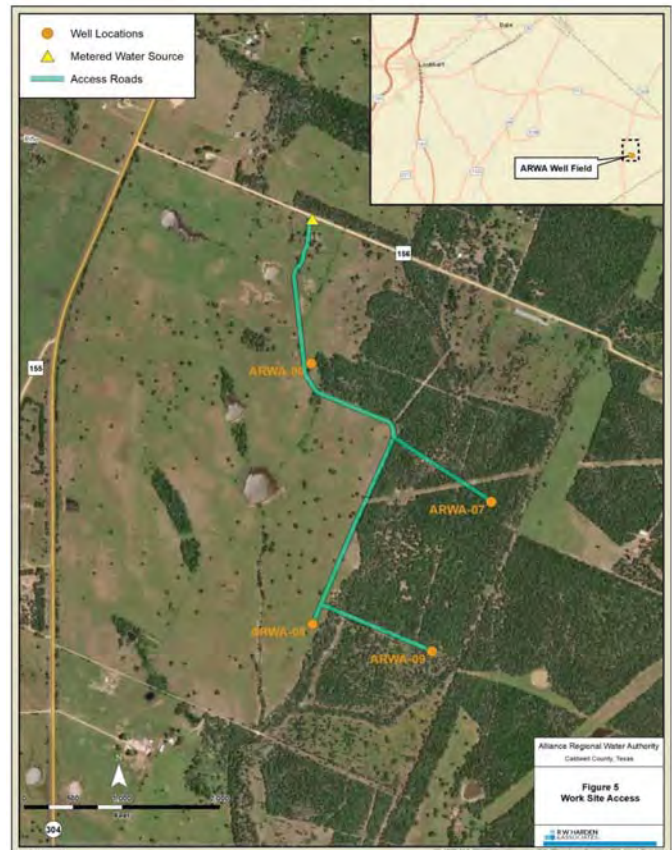
Pipeline Easement Acquisition Status

Pipeline Segment	Number of Parcels	STATUS						
		(A) Appraisal/Offer in Development	(B) Negotiation (Initial Offer)	(C) Negotiation (Final Offer)	(D) = (A+B+C) Appraisal / Negotiation	(E) Condemnation in Process	(F) = (D+E) Possession Still Needed	(G) Purchase Agreement Signed / Possession Obtained
A	39	0	0	0	0	3	3	36
B	52	0	0	0	0	20	20	32
D	57	0	0	6	6	31	37	20
C	74	15	30	10	55	10	65	9
E	37	10	4	3	17	17	34	3
Well Field	20	17	0	0	17	3	20	0
Total	279						179	100



Well Drilling Construction Progress

- ▶ Actual Progress (last 30 days)
 - All Wells Finalized
 - Pouring Well Pads – Starting this Week
- ▶ Anticipated Progress (next 30 days)
 - Complete Well Pads
 - Substantial Completion Walkthrough



Budget Update

COST UPDATES BASED ON JULY MILESTONE SUBMITTALS

		ORIGINAL (FEB. 2019)	REVISED	
Construction Package		ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
Submittal (%) Combined Program Infrastructure				
Const.	Water Treatment Plant	\$ 25,200,000	\$ 29,600,000	\$ 4,400,000
100	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 12,900,000	\$ 800,000
30	Inline EST (South)	\$ 3,600,000	\$ 3,600,000	\$ 0
100	Pipeline Segment A	\$ 27,200,000	\$ 26,400,000	(\$ 800,000)
100	Pipeline Segment B	\$ 27,100,000	\$ 32,400,000	\$ 5,300,000
100	Pipeline Segment D	\$ 36,300,000	\$ 37,700,000	\$ 1,400,000
90	Pipeline Segment E	\$ 9,500,000	\$ 10,300,000	\$ 800,000
	Subtotal	\$141,000,000	\$152,900,000	\$ 11,900,000
ARWA-Only Infrastructure				
Const.	Well Drilling	\$ 3,800,000	\$ 3,300,000	(\$ 500,000)
Const.	Raw Water Infrastructure	\$ 7,000,000	\$ 10,700,000	\$ 3,700,000
100	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 4,900,000	(\$ 2,800,000)
30	Inline EST (North)	\$ 5,400,000	\$ 6,600,000	\$ 1,200,000
60	Pipeline Segment C	\$ 64,500,000	\$ 62,500,000	(\$ 2,000,000)
90	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 11,400,000	\$ 4,700,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$103,600,000	\$ 4,200,000
Total		\$240,400,000	\$256,500,000	\$16,100,000

AUGUST 2021 UPDATE

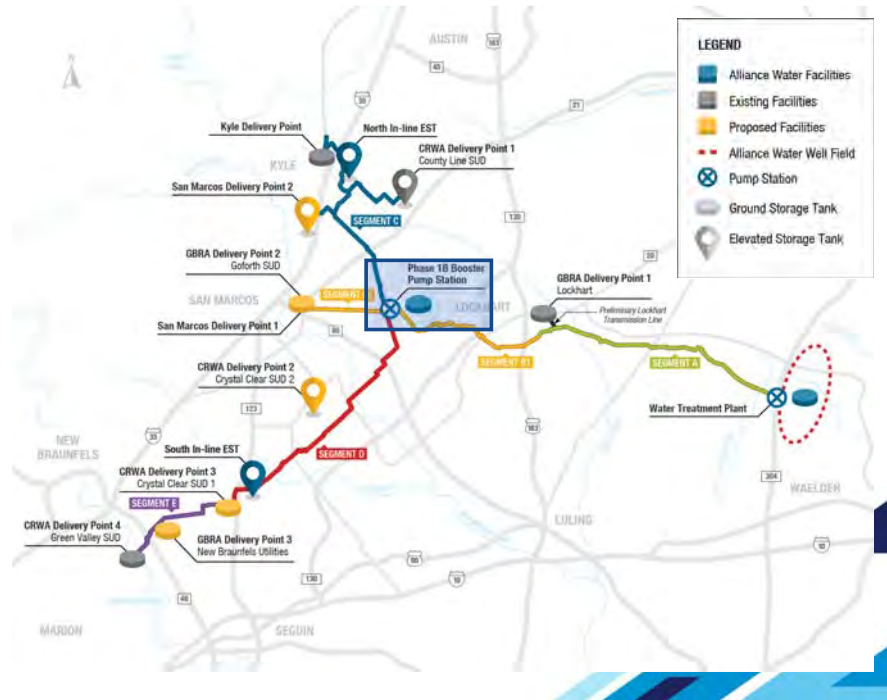
**NO CHANGE FROM
JULY UPDATE**



Consulting Services

Construction Phase Services

- ▶ Projects on this Agenda:
 - Booster Pump Station
- ▶ Projects Upcoming:
 - Pipeline Segment A
 - Pipeline Segment B



Booster Pump Station & Delivery Points

- ▶ Construction Phase Services (Hourly not to Exceed)
- ▶ Basic Services Scope to Include:
 - Construction Progress Meetings
 - Periodic Site Visits
 - Shop Drawing Submittals
 - Requests for Information
 - Requests for Proposals, Change Orders
 - Final Walkthroughs
 - Record Drawings



Booster Pump Station & Delivery Points

- ▶ Construction Phase Services (Hourly not to Exceed)
- ▶ Supplemental Services Scope to Include:
 - City of Maxwell Delivery Point Design
 - Specialty Observations
 - Additional Meetings / Site Visits
 - Additional Commissioning Assistance
 - Pump / PLC Witness Testing
- ▶ Basic Services Fee = \$497,224.00
- ▶ Supplemental Services Fee = \$95,716.00



Questions?

ALLIANCE REGIONAL WATER AUTHORITY
 ATTN: GRAHAM MOORE
 1040 HIGHWAY 123
 SAN MARCOS, TX 78666

Please send payments to:
 KIMLEY-HORN AND ASSOCIATES, INC.
 P.O. BOX 951640
 DALLAS, TX 75395-1640

Invoice No: 068706604-0721
 Invoice Date: Jul 31, 2021
 Invoice Amount: \$ 215,608.82
 Project No: 068706604
 Project Name: ARWA PROGRAM YEAR 4
 Project Manager: SOWA, RYAN

Work Order No. 4
 Duration: March 2021 - Feb. 2022

Invoice Duration: July 1, 2021 to July 31, 2021

Federal Tax Id: 56-0885615

COST PLUS MAX

KHA Ref # 068706604.3-19279213

Description	Contract Value	Amount Billed to Date	Previous Amount Billed	Current Amount Due
PROGRAM MANAGEMENT PLAN UPDATES	32,262.00	3,604.10	2,631.70	972.40
STAKEHOLDER COORDINATION	279,683.00	102,430.53	82,201.63	20,228.90
BUDGETING	110,861.00	73,435.72	55,695.62	17,740.10
SCHEDULE	81,192.00	37,471.91	26,719.96	10,751.95
REPORTING	47,110.00	26,087.50	21,265.00	4,822.50
DATA MANAGEMENT	91,576.00	36,145.60	31,309.75	4,835.85
ENVIRONMENTAL MANAGEMENT	84,390.00	44,136.13	35,549.25	8,586.88
LAND ACQUISITION MANAGEMENT	509,587.00	280,359.00	216,136.15	64,222.85
TWDB MANAGEMENT	83,558.00	33,155.25	19,031.25	14,124.00
DESIGN STANDARDS	84,403.00	41,276.24	36,811.24	4,465.00
ENGINEERING DESIGN MANAGEMENT	361,276.00	188,963.00	167,486.00	21,477.00
QUALITY ASSURANCE	17,966.00	4,957.75	4,017.75	940.00
ELECTRICAL POWER PLANNING	51,073.00	15,001.25	12,821.88	2,179.38
PERMIT COORDINATION/TRACKING	50,094.00	23,092.80	17,075.50	6,017.30
PROCUREMENT AND CONSTRUCTION PHASE SERVICES	408,057.00	102,649.73	71,386.73	31,263.00
PROJECT ADMINISTRATION	52,870.00	18,408.46	15,426.73	2,981.73
OTHER SERVICES	78,995.00	25,562.25	25,562.25	0.00
ENVIRONMENTAL CONSTRUCTION PHASE SERVICES	260,480.00	0.00	0.00	0.00
Subtotal	2,685,433.00	1,056,737.21	841,128.39	215,608.82
Total COST PLUS MAX				215,608.82

Total Invoice: \$ 215,608.82

If you have questions regarding this invoice, please call Cecile Wells at (281) 612-9031.

August 18, 2021

Project Monthly Summary

July 2021 Tasks Performed:

- Task 2 – Stakeholder Coordination
 - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
 - Continued weekly task coordination with Alliance Water.
 - Prepared and presented the Technical Committee Update.
 - Prepared and presented the Board Meeting Update.
 - Prepared and presented the Project Advisory Committee Meeting Update.
 - Prepared for and held Monthly Status Meeting with Alliance Water.

- Task 3 – Budgeting
 - Prepared documentation for the upcoming Land Acquisition Cost Presentation.
 - Prepared and presented the monthly Budget Update for the Board meeting.
 - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Revised Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
 - Coordinated with Program team to integrate each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.

- Task 6 – Data Management
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - Coordinated with the Program Environmental Consultant regarding Inline Elevated Storage Tank site field work.
 - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.
 - Performed coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continued coordination between Program Environmental Consultant and Design Engineers.
- Reviewed Program Environmental invoices, schedule, and risk log.
- Task 8 – Land Acquisition Management
 - Coordinated the appraisal process for Segments C, D, E, and W parcels.
 - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
 - Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition team.
 - Weekly coordination meeting with land agents to discuss status of rights-of-entry and to provide Program clarification on any questions/requests that have come from landowners.
 - Reviewed Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
 - Continued field work coordination to notify landowners of upcoming field work by consultants.
- Task 9 – Texas Water Development Board Management
 - Continued coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.
- Task 10 – Design Standards
 - Revised and the Pipeline Construction Standards based on comments received during Segment A and BPS Advertising.
- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continued coordination with Design Consultant for final design and procurement development.
 - Segment B
 - Continued coordination with Design Consultant for final design and preparation for bidding.
 - Segment C
 - Continue coordination with Design Consultant.
 - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations as part of right-of-entry process and EFR development.
 - Segment D
 - Continued coordination with Design Consultant for final design and preparation for bidding.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Segment E
 - Continued coordination with Design Consultant for final design.
 - Wellfield:
 - Continued coordination regarding the construction for Wells 6-9.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for pre-construction phase services.
 - Water Treatment Plant:
 - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for pre-construction phase services.
 - Booster Pump Station:
 - Coordinated with Design Consultant for final design and procurement development.
 - Inline Elevated Storage Tanks:
 - Began review of the 60% design submittal prepared by the Design Consultant.
 - Continued coordination with Design Consultant for 60% design development.
 - Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
 - Review invoices, schedules, and risk logs for consultants.
- Task 13 – Electrical Power Planning
 - Continued coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continued coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 – Permit Coordination/Tracking
 - Continued Permit coordination with Pipeline Consultants.
 - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continued coordination with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.
 - Continued General Coordination with TxDOT.
 - Continued General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Coordinated with Segment A and BPS Design Consultants during the procurement phase.
 - Prepared for and attended Segment A and BPS Pre-Proposal Meeting.
 - Responded to applicable Program-related questions submitted for procurement phase for Segment A and BPS.
 - Compiled proposal data from Segment A and BPS submittals and coordinated with design consultant for proposer references.
 - On-going coordination with WTP and RWI Design Consultants during the construction phase.
- Task 16 – Other Services
 - Commissioning Planning
 - Continued evaluation of the Phase 1B infrastructure commissioning.

August 2021 Projection:

- Task 2 – Stakeholder Coordination
 - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
 - Continue weekly task coordination with Alliance Water.
 - Prepare and present the Technical Committee Update.
 - Prepare and present Project Advisory Committee Meeting Update.
 - Prepare and present Board Meeting Update.
 - Prepare for and hold Monthly Status Meeting with Alliance Water.
- Task 3 – Budgeting
 - Prepare and present the Land Acquisition Cost Presentation.
 - Prepare and present the monthly Budget Update for the Board meeting.
 - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
 - Continue development of projected Operation and Maintenance costs and address feedback received from ARWA.
- Task 4 – Schedule
 - Revise the Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
 - Coordinate with Program team to integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.
- Task 6 – Data Management
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Review the Segment C Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
 - Continue coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segment C and E.
 - Perform coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
 - Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
 - Continue coordination between Program Environmental Consultant and Design Engineers.
 - Review Program Environmental invoices, schedule, and risk log.

- Task 8 – Land Acquisition Management
 - Coordinate the appraisal process for Segment C, D, E, and W parcels.
 - Coordinate with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
 - Perform weekly QC of parcel files in SharePoint, provide comments to Land Acquisition team.
 - Weekly coordination meeting with land agents to discuss status of rights-of-entry and to provide Program clarification on any questions/requests that have come from landowners.
 - Review Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
 - Continue field work coordination to notify landowners of upcoming field work by consultants.

- Task 9 – Texas Water Development Board Management
 - Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

- Task 10 – Design Standards
 - Revise and distribute the Pipeline Construction Standards based on comments received during Segment A and BPS Advertising.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for final design and procurement development.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Segment B
 - Continue coordination with Design Consultant for final design and preparation for bidding.
 - Segment C
 - Begin review of the Segment C 100% design submittal prepared by the Design Consultant.
 - Continue coordination with Design Consultant for final design.
 - Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations as part of right-of-entry process and EFR development.
 - Segment D
 - Continue coordination with Design Consultant for final design and preparation for bidding.
 - Segment E
 - Begin review of the Segment E 100% design submittal prepared by the Design Consultant.
 - Continue coordination with Design Consultant for final design.
- Wellfield:
 - Continue coordination regarding the construction of Wells 6-9.
- Raw Water Infrastructure:
 - Continued coordination with Design Consultant for pre-construction phase services.
- Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for pre-construction phase services.
- Booster Pump Station:
 - Coordination with Design Consultant for final design and procurement development.
- Inline Elevated Storage Tanks:
 - Finalized review of the 60% design submittal prepared by the Design Consultant.
 - Attend the Inline Elevated Storage Tank 60% Design Workshop.
 - Coordination with Design Consultant for 90% design development.
- Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield).
 - Review invoices, schedules, and risk logs for consultants.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Task 13 – Electrical Power Planning
 - Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continue coordination with GVEC regarding electric service to the WTP and wellfield.

- Task 14 – Permit Coordination/Tracking
 - Continue Permit coordination with Pipeline consultants
 - Coordinate with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.
 - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.

- Task 15 – Procurement and Construction Phase Services
 - On-going coordination with Segment A and BPS Design Consultants during the procurement phase, including review of proposals
 - Coordination with Segment B to prepare for bidding.

- Task 16 – Other Services
 - Finalize additional solar analysis and memo to address ARWA’s comments.
 - Commissioning Planning
 - Finalize the evaluation of the Phase 1B infrastructure commissioning for ARWA’s review.
 - Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.

Scope Elements Added/Removed:

None at this time.

Outstanding Issues/Concerns:

None at this time.

HUB Participation:

59.9 % allotted by Contract (based on contract total fee)

55.7% to date of Billing

Design Consultant Certifications: N/A

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

Sub Consultant	Sub Consultant Certifications	Task Description	Contract Value (\$)	Percent Complete to Date (%)	Amount Billed to Date (\$)	Amount Paid to Date (\$)
Foster CM Croup, Inc.	DBE; AABE; MBE; SBE	Budgeting, Schedule, and Data Management	\$170,814.00	51.9%	\$97,483.98	\$53,952.50
CP&Y, Inc.	ABE; MBE	Program Standards, Compliance, and Project Management	\$926,211.00	24.3%	\$248,081.76	\$148,786.25
Grubb Engineering, Inc.	ESBE; SBE; WBE	Electrical Power Planning	\$44,200.00	28.6%	\$13,894.15	\$10,309.57
Spitzer and Associates, Inc.	SBE; WBE	Land Acquisition Management	\$446,290.00	56.9%	\$233,753.86	\$132,784.96
V&A Consulting Engineers, Inc.	SBE; HABE; MBE	Cathodic Protection Standards	\$22,015.00	0.0%	\$-	\$-
		Subtotal	\$1,609,530.00	35.1%	\$593,213.75	\$345,833.29

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.5** Consider adoption of Resolution 2021-08-25-004 approving Work Order #5 with Freese & Nichols, Inc. for Construction Administration Services on the Authority's Phase 1B Booster Pump Station and Delivery Points Project, as recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Alliance Water entered into a Work Order in March 2020 with Freese & Nichols, Inc. (Freese & Nichols) to provide final design engineering services for the Phase 1B Booster Pump Station and Delivery Points project. The final design is complete and the construction notice-to-proceed is expected to be issued in October. In order to maintain progress, Staff has negotiated a scope and fee with Freese & Nichols to provide construction administration and construction engineering services for the Phase 1B Booster Pump Station and Delivery Points project.

Below are some of the key facts regarding the proposal:

Firm: Freese & Nichols, Inc.
Fee: \$592,940 (50% ARWA)
Work Order Type: Hourly, Not-to-Exceed
Anticipated Duration: 28 months
Project Manager: David Bennett, P.E.
Key Subconsultants: Gupta & Associates

Staff is requesting Board approval of a Work Order with a fee for the basic services of \$497,224.00 and a fee for supplemental effort in an amount not-to-exceed \$95,716.00 for a total fee of \$592,940. The Executive Director will be given the discretion to authorize the supplemental effort if needed.

Attachment(s)

- Resolution 2021-08-25-004
- August 17, 2021 - Booster Pump Station and Delivery Points Construction Phase Services.

Recommendation(s)

- The Technical Committee unanimously recommended approval of the work order.

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-004 approving Work Order #5 with Freese & Nichols, Inc. for Construction Administration Services on the Authority's Phase 1B Booster Pump Station and Delivery Points Project.



ALLIANCE WATER

RESOLUTION NO. 20210825-004

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #5 BETWEEN THE AUTHORITY AND FREESE & NICHOLS, INC. FOR CONSTRUCTION ADMINISTRATION PHASE SERVICES RELATED TO THE AUTHORITY'S PHASE 1B BOOSTER PUMP STATION AND DELIVERY POINTS PROJECT AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with Freese & Nichols, Inc. ("Freese & Nichols") for professional engineering services and related matters in June 2018.

2. The Authority hired Kimley-Horn & Associates to serve as the Owner's Representative for the Authority's Phase 1B Program. The Owner's Representative role is to assist the Authority with development of the Phase 1B Program as a whole, including coordination with all design firms after selection through completion of the Program.

3. The Authority entered into a work order with Freese & Nichols for preliminary design services for the Authority's Phase 1B Booster Pump Station and Delivery Points Project (the "Project") in January 2019. The Authority and Freese & Nichols entered into a subsequent work order for Final Design and Bidding of the Project in March 2020.

4. The bid opening for the Project is complete and the Authority anticipates issuing a notice-to-proceed to the selected construction contractor in the near future.

5. The scope of services and fee for the attached work order was negotiated by the Executive Director and the Owner's Representative on behalf of the Authority. The work order references terms and conditions in the approved Master Agreement between the Authority and Freese & Nichols.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The attached work order for Construction Administration Services for the Project between the Authority and Freese & Nichols is approved to be billed based on actual time and materials in an amount not-to-exceed \$497,224.

SECTION 2. The Authority's Executive Director, Graham Moore, is authorized to execute the attached agreement on behalf of the Authority.

SECTION 3. The Authority's Executive Director is authorized to issue supplemental work orders not to exceed, \$95,716.

SECTION 4. This Resolution shall be in full force and effect immediately upon its passage.

Resolution 20210825-004
Phase 1B Booster Pump Station and Delivery Points Project Construction
Administration

ADOPTED: August 25, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

August 17, 2021

Tyler Kay, P.E.
 Program Manager - ARWA
 Kimley-Horn
 7740 N 16th St, Suite 300
 Phoenix, AZ 85020

Re: Alliance Regional Water Authority - Phase 1B, Booster Pump Station and Delivery Points,
 Construction Phase Services – Revised V1

Dear Mr. Kay:

Freese and Nichols, Inc. (FNI) is pleased to submit our revised Scope of Work (SOW) and level of effort estimate to provide Construction Phase Services for the above referenced project. FNI has developed a revised proposal based upon Program review comments received on 8/16/2021. We have Attached are the following documents for your review:

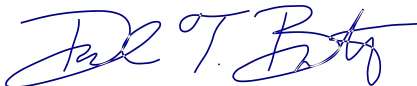
- Attachment A – Scope of Work
- Attachment B – Proposed Level of Effort Spreadsheet
- Attachment C – Subconsultant Proposal (Gupta)

The proposed level of effort (fee) is as follows:

Scope	Fee
Basic Services Total	\$ 497,224
Supplemental Services Total	\$ 95,716
Construction Phase Services Total	\$ 592,939

After you've had a chance to review, please let us know if you have any questions or would like to discuss. We appreciate this opportunity.

Sincerely,



David Bennett, P.E.
 Project Manager
 Principal / Vice President
 Freese and Nichols, Inc.

**Alliance Regional Water Authority – Phase 1B
Booster Pump Station and Delivery Points
Construction Phase Scope of Work (Freese and Nichols, Inc.)**

1. Project Management
 - 1.1. Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan
 - 1.2. Meetings
 - 1.2.1. Quality Control Audit (1 workshop)
2. Regulatory Agency Coordination and Permits
 - 2.1. Texas Commission on Environmental Quality (two one-hour virtual meetings or phone conf.)
 - 2.2. Texas Water Development Board (two one-hour virtual meetings or phone conf.)
 - 2.3. Texas Department of Transportation (TxDOT) (two one-hour virtual meetings or phone conf.)
 - 2.4. Caldwell County (one one-hour virtual meetings or phone conf.)
 - 2.5. City of San Marcos (two one-hour virtual meetings or phone conf.)
 - 2.6. City of Umland (one one-hour virtual meetings or phone conf.)
3. Public Utility Coordination
 - 3.1. Bluebonnet Electric Cooperative (two one-hour virtual meetings or phone conferences)
4. Delivery Point Owner Coordination (two one-hour virtual meetings or phone conferences with each Delivery Point Owner)
 - 4.1. CRWA #1 / County Line SUD
 - 4.2. CRWA #2 / Crystal Clear #2
 - 4.3. CRWA #3 / Crystal Clear #1
 - 4.4. CRWA #4 / Green Valley SUD
 - 4.5. City of Kyle
 - 4.6. City of San Marcos #1
 - 4.7. City of San Marcos #2
 - 4.8. GBRA Delivery Points (Lockhart and NBU)
5. Design Consultant Coordination (two one-hour virtual meetings or phone conferences with each)
 - 5.1. WTP Design Consultant
 - 5.2. EST Design Consultant
 - 5.3. Pipeline Segment B1
 - 5.4. Pipeline Segment B2
 - 5.5. Pipeline Segment C
 - 5.6. Pipeline Segment D
 - 5.7. Pipeline Segment E
6. Construction Site Visits and Progress Meetings
 - 6.1. Pre-Construction Meeting. Attend a pre-construction meeting coordinated by the Construction Management and Inspection (CM&I) team.
 - 6.2. Monthly Site Observation. Consultant will make 18 site visits to the BPS site and 2 site visits to each Delivery Point Site. Site observations will be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained

during site visits, Consultant will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and Consultant will keep Client informed of the general progress of the work. Consultant is not required to make exhaustive or continuous inspections to check the quality or quantity of the Work. In this effort, Consultant will endeavor to protect the Owner against defects and deficiencies in the work of Contractor and will report any observed deficiencies to CMI&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

- 6.2.1. Consultant will not supervise, direct, or have control over Contractor's work, nor shall Consultant have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Consultant does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents. Consultant is to inform the CM&I of issues or concerns and CM&I is to work with Contractor to address these issues or concerns.
- 6.2.2. Site observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit.
- 6.2.3. Notify CM&I team of inconsistencies with observed worked with respect to Contract Documents.
- 6.3. Specialty Observations will be limited to spot checking, selective measure, and similar methods of general observations for observation of equipment requiring additional observations beyond the monthly observations. Specialty Observation reports will be prepared and provided to the CM&I team via the CM&I Electronic Document Management System (EDMS) within 48 hours of each site visit. Provide up to ten Specialty Observation Site Visits for facilities/equipment including:
 - 6.3.1. Ground Storage Tank
 - 6.3.2. Pump Station
 - 6.3.3. Generator and Automatic Transfer Switch
 - 6.3.4. Solenoid Control Valves
 - 6.3.5. Mag Meters
 - 6.3.6. Chlorine Analyzers
 - 6.3.7. PLC Panel Witness Test
 - 6.3.8. PCSI Coordination
- 6.4. Monthly *(or as specified for each project – discuss with Owner's Representative team)* Construction Progress Meetings. Consultant will attend up to 18 monthly Construction Progress Meetings
 - 6.4.1. Attend Progress Meetings led by the CM&I team. Discuss status of document reviews, proposed contract modifications and any issues or concerns that need to be addressed to allow construction of the project to progress.
 - 6.4.2. Review Project Decision Register and Action Item Register prior to each meeting. Report discrepancies in the Project Decision Register to the CM&I team immediately. Update the status on Action Items at least 10 days before meetings.
 - 6.4.3. Review monthly Construction Activity Reports prepared by the CM&I team. Provide feedback on report content as appropriate.

7. Construction Coordination
 - 7.1. Regular coordination with Owner's Representative and CM&I group as required to facilitate administration of the project.
 - 7.2. Participate in project quality audits as necessary, and implementation of agreed corrective actions. Attend up to 3 meetings related to quality issues during construction.
 - 7.3. Review monthly construction pay applications and make recommendations for payment
 - 7.4. Review monthly schedules to confirm compliance with Contract dates and key milestones
 - 7.5. Review monthly as-builts provided by Contractor.
 - 7.6. Utilize EDMS for upload/download of all construction-related documentation.

8. Shop Drawing/Submittal Review
 - 8.1. Review shop drawings/submittals for conformance with the project plans and specifications and provide responses within 14 calendar days. For the purposes of this scope, assume review effort will include the original submittal and 1 resubmittal for 50% of all submittals. The scope of work assumes the following number of submittals:
 - 8.1.1. Shop Drawings (120)
 - 8.1.2. Record Data (50)
 - 8.1.3. Test Reports (20)
 - 8.1.4. Operation and Maintenance Manuals (35)
 - 8.2. Attend up to eight (8) pre-submittal phone conference coordination meetings for specialty equipment.

9. Alternatives and Substitutions
 - 9.1. Review alternatives and substitutions proposed by Contractor. Recommend acceptance or rejection of the request for substitutions. A budget amount has been established for evaluation of substitutions. If required effort exceeds the budgeted amount, Consultant may request additional budget for these services.

10. Request for Information (RFIs)
 - 10.1. Review up to sixty (60) Contractor questions or concerns that may arise during construction and respond within 5 calendar days.

11. Request for Proposals (RFPs) and Change Orders (Cos). Scope of Work assumes up to ten RFPs/Change Orders.
 - 11.1. Coordinate with CM&I to prepare a description of proposed Modifications. CM&I will issue the RFP form to Contractor through the EDMS.
 - 11.2. Coordinate with CM&I for review and response to RFP and provide recommendations to the Owner's Representative for consideration.
 - 11.3. Review Change Order prepared by the CM&I team.

12. Start-up and Commissioning
 - 12.1. Provide assistance to the Program and Contractor during start-up of the equipment and facilities with up to 5 full-days on-site (up to three (3) Engineers per day on-site – FNI and Electrical/Instrumentation Subconsultant). Basic Services assume commissioning activities will occur at the same time. If separate commissioning services are required due to availability of water or staggered completion of other pipeline segments and delivery points, Supplemental Services budget has been established for this case.

13. Substantial/Final Completion Walk-Throughs

- 13.1. Consultant to conduct one (1) substantial completion walk-through/inspection, coordinated by the CM&I. After considering any objections from Owner's Representative, if the Consultant considers the work substantially complete, Consultant will submit a Substantial Completion punch list and letter to the Owner's Representative. Substantial Completion walk-through/inspections for the BPS site and all DP sites are assumed to occur on the same day/trip.
- 13.2. Consultant to conduct one (1) final completion walk-through/inspection (coordinated by the CM&I) to determine if the completed work of Contractor is acceptable to both the Owner's Representative and Consultant so that Consultant may recommend, in writing, the final payment to the Contractor. Final Completion walk-through/inspections for the BPS site and all DP sites are assumed to occur on the same day/trip.

14. Record Drawings

- 14.1. Consultant will prepare Contract Record Drawings using the marked up red lines drawings provided by the Contractor during construction. Record drawing information will be based solely on the provided red line drawings and appropriate field documentation received from the Consultant and the CM&I group during construction site visits. Items associated with this work include:
 - 14.1.1. Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request
 - 14.1.2. Prepare Record Drawings of the constructed project based on change order revisions and as built information provided by the contractor.
 - 14.1.3. Provide the Owner's Representative:
 - 14.1.3.1. With one (1) set of Record Drawings in .pdf and .dwg electronic format.
 - 14.1.3.2. The DWG file with the reference state plan coordinate system for use by ARWA.

15. Supplemental (*as applicable to the specific project*)

- 15.1. General Construction Phase Services, which may include:
 - 15.1.1. Additional site visits (6 visits).
 - 15.1.2. Providing services to review or evaluate Contractor claims that are not due to causes within the control of Consultant. A budget amount has been established for evaluation of substitutions. If required effort exceeds the budgeted amount, Consultant may request additional budget for these services.
- 15.2. Attend additional meetings in the vicinity of the project (5 meetings)
- 15.3. Corrosion Investigation, Data Collection and Construction Support
- 15.4. Additional Delivery Point Design for the City of Maxwell
 - 15.4.1. Conduct 1 coordination meeting with the City of Maxwell, ARWA and Owner's Representative. Prepare meeting agenda and minutes.
 - 15.4.2. Perform hydraulic analysis to determine delivery hydraulics and sizing of control valve, flow meter, piping and appurtenances.
 - 15.4.3. Prepare 90% design plans including site location, pad layout, grading and drainage requirements. Submit 90% design plans for ARWA and Owner's Representative review
 - 15.4.4. Conduct a 90% virtual design review meeting with ARWA and Owner's Representative. Respond to review comments. Prepare meeting agenda and minutes.

- 15.4.5. Prepare 100% design plans incorporating 90% comments and submit for a final review by Owner's Representative.
- 15.4.6. Prepare signed/sealed 100% design plans and submit to Owner's Representative for preparation of a construction change order.
- 15.4.7. Provide 100% plans and documentation to Owner's Representative for TCEQ submittal/approval. Respond to TCEQ comments as required.
- 15.5. Additional Commissioning Services. If staggered commissioning of facilities are required, Provide additional assistance to the Program and Contractor during start-up of the equipment and facilities with up to 5 full-days on-site (up to three (3) Engineers per day on-site – FNI and Electrical/Instrumentation Subconsultant).
- 15.6. Pump Witness Testing. Attend pump manufacturer's witness testing site visit at manufacturer's facility. Budget includes up to 3 days for 1 Engineer including time on-site and travel time.
- 15.7. PLC Witness Testing. Attend pump manufacturer's witness testing site visit at manufacturer's facility. Budget includes up to 3 days for 1 Engineer including time on-site and travel time.

ASSUMPTIONS:

1. The Construction Phase scope of work is aligned with the construction contract and based upon the Contractor reaching substantial completion within 510 calendar days, followed by staggered testing and final completion of Delivery Point sites and the complete system testing extending the total substantial plus final completion to a maximum construction duration of 875 calendar days.
2. Owner's Representative will be the primary contact with TWDB and TCEQ and will facilitate all submittals and coordination. At request of Owner's Rep, Design Consultant may coordinate directly with TWDB and TCEQ as required to address specific comments.
3. Owner's Representative will provide overall Construction Contract Management and Administration Services including daily on-site inspection, administration of construction contract documentation and meeting facilitation.
4. Owner's Representative Construction Management team will provide a cursory review of all submittals for completeness prior to sending to the design consultant.
5. Owner's Representative will provide training for use of the CM&I Electronic Document Management System (EDMS) for access and use of construction-related documentation.
6. Budgetary amounts have been established for providing services associated with Supplemental Scope Item 14.2. If these services are needed, a specific scope of work and level of effort will be developed.
7. Assisting Owner in preparing for, or appearing at litigation, mediation, arbitration, dispute review boards, or other legal and/or administrative proceedings in the defense or prosecution of claims disputes with Contractor is an Additional Service.
8. Assisting Owner in the defense or prosecution of litigation in connection with or in addition to those services contemplated by this Agreement is an Additional Service.
9. Any services required as a result of default of the Contractor or the failure, for any reason, of the Contractor to complete the work within the Contract Time is an Additional Service.

Alliance Regional Water Authority (ARWA) Phase 1B Booster Pump Station & Delivery Points Construction Phase Services Detailed Cost Breakdown	Project Fee Summary	
	Basic Services	\$ 497,224
	Special Services	\$ 95,716
	Total Project	\$ 592,939

Tasks		Labor													Total				
Task	Task Description	Drew Hardin	David Bennett	Ryan Ramsey	Erin Mills	David Guerrero	Cassie Grady	AI Sexton	Ron Deal	George Fowler	Masoud Ghahremannejad	Andrew Perez	Stephanie Neises	Marissa Mendoza	Total Hours	Total Labor Effort	Total Expense Effort	Total Sub Effort	Total Effort
		Sr. Advisor / QA	Sr. Project Manager	Pump Station PE	Delivery Points PE	Design Engineer	Designer	HVAC	Corrosion	Stormwater	Structural	Architect	Hydraulics	Accounting					
		\$250	\$250	\$186	\$186	\$141	\$160	\$141	\$186	\$186	\$186	\$186	\$218	\$155					
1	Project Management (875 days)	4	30	30		10								30	104	\$ 20,140	\$ 884	\$ 9,681	\$ 30,705
2	Regulatory Agency Coordination and Permits															\$ -	\$ -	\$ -	\$ -
	2.1. TCEQ (two one-hour virtual meetings or phone conf.)		2	2	2	4									10	\$ 1,808	\$ 85	\$ -	\$ 1,893
	2.2. TWDB (two one-hour virtual meetings or phone conf.)		2	2		4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	2.3. TxDOT (two one-hour virtual meetings or phone conf.)			2		4									6	\$ 936	\$ 51	\$ -	\$ 987
	2.4. Caldwell County (one one-hour virtual meetings or phone conf.)			1		2									3	\$ 468	\$ 26	\$ -	\$ 494
	2.5. City of San Marcos (two one-hour virtual meetings or phone conf.)			2		4			2						8	\$ 1,308	\$ 68	\$ -	\$ 1,376
	2.6. City of Umland (one one-hour virtual meetings or phone conf.)			1	2	2									5	\$ 840	\$ 43	\$ -	\$ 883
3	Public Utility Coordination															\$ -	\$ -	\$ -	\$ -
	3.1. Bluebonnet Electric (two one-hour virtual meetings or phone conf.)		2	2		4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
4	Delivery Point Owner Coordination (two one-hour virtual meetings or phone conferences with each DP Owner)															\$ -	\$ -	\$ -	\$ -
	4.1. CRWA #1 / County Line SUD		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.2. CRWA #2 / Crystal Clear #2		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.3. CRWA #3 / Crystal Clear #1		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.4. CRWA #4 / Green Valley SUD		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.5. City of Kyle		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.6. City of San Marcos #1		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.7. City of San Marcos #2		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	4.8. GBRA Delivery Points (Lockhart and NBU)		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
5	Design Consultant Coordination (two one-hour virtual meetings or phone conf w/each)															\$ -	\$ -	\$ -	\$ -
	5.1. WTP Design Consultant		2	2		4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	5.2. EST Design Consultant		2	2		4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	5.3. Pipeline Segment B1		2	2		4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
	5.4. Pipeline Segment B2		2	2	2	4									10	\$ 1,808	\$ 85	\$ -	\$ 1,893
	5.5. Pipeline Segment C		2	2	2	4									10	\$ 1,808	\$ 85	\$ -	\$ 1,893
	5.6. Pipeline Segment D		2	2	2	4									10	\$ 1,808	\$ 85	\$ -	\$ 1,893
	5.7. Pipeline Segment E		2		2	4									8	\$ 1,436	\$ 68	\$ -	\$ 1,504
6	Construction Site Visits and Progress Meetings															\$ -	\$ -	\$ -	\$ -
	6.1. Pre-Construction Meeting		4	4	4	8									20	\$ 3,616	\$ 248	\$ -	\$ 3,864
	6.2. Monthly Site Observation & Reports. 18-BPS & 2 for each DP Site		18	54	42	50				16					180	\$ 32,382	\$ 2,650	\$ 12,819	\$ 47,851
	6.3 Specialty Observations															\$ -	\$ -	\$ 5,996	\$ 5,996
	6.3.1. Ground Storage Tank			8		10									18	\$ 2,898	\$ 187	\$ -	\$ 3,085
	6.3.2. Generator and Automatic Transfer Switch			4						8					12	\$ 2,232	\$ 119	\$ -	\$ 2,351
	6.3.3. Solenoid Control Valves			4	4	10									18	\$ 2,898	\$ 192	\$ -	\$ 3,090
	6.3.4. Mag Meters			4	4	10									18	\$ 2,898	\$ 192	\$ -	\$ 3,090
	6.3.5. Chlorine Analyzers			4	4	10									18	\$ 2,898	\$ 192	\$ -	\$ 3,090
	6.3.6. PLC Panel Witness Test			4											4	\$ 744	\$ 51	\$ -	\$ 795
	6.3.7. PCSI Coordination			4											4	\$ 744	\$ 51	\$ -	\$ 795
	6.3.7. Pump Station			4		5				8					17	\$ 2,937	\$ 161	\$ -	\$ 3,098
	6.4. Monthly Construction Progress Meetings (28)		18	84	18	112									232	\$ 39,264	\$ 1,972	\$ -	\$ 41,236
7	Construction Coordination															\$ -	\$ -	\$ -	\$ -
	7.1. Coordination with Owner's Representative and CM&I group		20	40	20										80	\$ 16,160	\$ 680	\$ -	\$ 16,840
	7.2. Quality audit meetings (3) on site		4	12	4	12									32	\$ 5,668	\$ 367	\$ -	\$ 6,035
	7.3. Review monthly construction pay applications			28	14										42	\$ 7,812	\$ 357	\$ -	\$ 8,169
	7.4. Review monthly schedules		4	14	8										26	\$ 5,092	\$ 221	\$ -	\$ 5,313
	7.5. Review monthly as-builts provided by Contractor.			8	4	14									26	\$ 4,206	\$ 221	\$ -	\$ 4,427
8	Shop Drawing/Submittal Review															\$ -	\$ -	\$ 51,613	\$ 51,613
	8.1. Shop Drawings/Submittals															\$ -	\$ -	\$ -	\$ -
	8.1.1. Shop Drawings (120)		8	40	20	180		8	8	16	40	16			336	\$ 54,548	\$ 2,856	\$ -	\$ 57,404
	8.1.2. Record Data (50)			4	2	25									31	\$ 4,641	\$ 264	\$ -	\$ 4,905
	8.1.3. Test Reports (20)			4	2	10									16	\$ 2,526	\$ 136	\$ -	\$ 2,662
	8.1.4. Operation and Maintenance Manuals (35)			8	4	35				4					51	\$ 7,911	\$ 434	\$ -	\$ 8,345
	8.2. Pre-Submittal Conference Meetings (8) for specialty equipment		4	8	4	16									32	\$ 5,488	\$ 272	\$ -	\$ 5,760
9	Alternatives and Substitutions															\$ -	\$ -	\$ -	\$ -
	9.1. Review alternatives and substitutions proposed by Contractor.		4	8	4	16		2	2	4	16	4			60	\$ 10,606	\$ 510	\$ -	\$ 11,116
10	Request for Information (RFIs)															\$ -	\$ -	\$ -	\$ -
	10.1. Review up to sixty (60) RFI's		20	60	20	60		4	4	8	24	8			208	\$ 37,088	\$ 1,768	\$ -	\$ 38,856
11	Request for Proposals (RFPs) and Change Orders (Cos). (10)															\$ -	\$ -	\$ 2,200	\$ 2,200
	11.1. Coordinate with CM&I to prepare proposed Modifications.		4	20	10	20	40								94	\$ 15,800	\$ 799	\$ -	\$ 16,599
	11.2. Coordinate with CM&I for review and response to RFP		4	20	10	20									54	\$ 9,400	\$ 459	\$ -	\$ 9,859
	11.3. Review Change Order prepared by the CM&I team.		2	8	4										14	\$ 2,732	\$ 119	\$ -	\$ 2,851
12	Start-up and Commissioning															\$ -	\$ -	\$ -	\$ -
	12.1. Start-up and Commissioning (5 full-days on-site)		8	40	40	16									104	\$ 19,136	\$ 1,276	\$ 5,996	\$ 26,408

Alliance Regional Water Authority (ARWA) Phase 1B Booster Pump Station & Delivery Points Construction Phase Services Detailed Cost Breakdown	Project Fee Summary	
	Basic Services	\$ 497,224
	Special Services	\$ 95,716
	Total Project	\$ 592,939

Tasks		Labor													Total				
Task	Task Description	Drew Hardin	David Bennett	Ryan Ramsey	Erin Mills	David Guerrero	Cassie Grady	Al Sexton	Ron Deal	George Fowler	Masoud Ghahremannejad	Andrew Perez	Stephanie Neises	Marissa Mendoza	Total Hours	Total Labor Effort	Total Expense Effort	Total Sub Effort	Total Effort
		Sr. Advisor / QA	Sr. Project Manager	Pump Station PE	Delivery Points PE	Design Engineer	Designer	HVAC	Corrosion	Stormwater	Structural	Architect	Hydraulics	Accounting					
		\$250	\$250	\$186	\$186	\$141	\$160	\$141	\$186	\$186	\$186	\$186	\$218	\$155					
13	Substantial/Final Completion Walk-Throughs															\$ -	\$ -	\$ -	\$ -
	13.1. Substantial completion walk-through/inspection (1)		10	4	6	12									32	\$ 6,052	\$ 350	\$ 1,999	\$ 8,401
	13.2. Final completion walk-through/inspection (1)		10	4	6	12									32	\$ 6,052	\$ 350	\$ 1,999	\$ 8,401
14	Record Drawings															\$ -	\$ -	\$ -	\$ -
	14.1.1. Prepare final Change Order		1	2	1	2									6	\$ 1,090	\$ 51	\$ -	\$ 1,141
	14.1.2. Prepare Record Drawings		2	8	6	16	40	2	2	6	16	6			104	\$ 17,622	\$ 884	\$ -	\$ 18,506
15	Supplemental Services															\$ -	\$ -	\$ -	\$ -
	15.1. General Construction Phase Services, which may include:															\$ -	\$ -	\$ -	\$ -
	15.1.1. Additional site visits (6 visits).			24						8					32	\$ 5,952	\$ 272	\$ -	\$ 6,224
	15.1.2. Evaluation of Contractor Claims		4	8	4	16									32	\$ 5,488	\$ 272	\$ -	\$ 5,760
	15.2. Attend additional meetings in the vicinity of the project (5 meetings)			24											24	\$ 4,464	\$ 204	\$ -	\$ 4,668
	15.3. Corrosion Investigation, Data Collection & Construction Support			4		8			16						28	\$ 4,848	\$ 238	\$ -	\$ 5,086
	15.4. Additional Delivery Point Design for the City of Maxwell									18					18	\$ 3,348	\$ 153	\$ -	\$ 3,501
	15.4.1. Coordination meeting with the City of Maxwell (1)		3	3	3	4									13	\$ 2,430	\$ 111	\$ -	\$ 2,541
	15.4.2. Perform hydraulic analysis		2	2	4	8						20			36	\$ 7,104	\$ 306	\$ -	\$ 7,410
	15.4.3. Prepare 90% design plans	1	2	4	8	16	16				8				55	\$ 9,286	\$ 468	\$ -	\$ 9,754
	15.4.4. Conduct a 90% design review meeting(1)		1	2	2	4									9	\$ 1,558	\$ 77	\$ -	\$ 1,635
	15.4.5. Prepare 100% design plans	1	1	2	4	8	8				8				32	\$ 5,512	\$ 272	\$ -	\$ 5,784
	15.4.6. Prepare signed/sealed design plans for Change Order			1	1	2	2								6	\$ 974	\$ 51	\$ -	\$ 1,025
	15.4.7. TCEQ submittal coordination & comment response		1	1	1	4									7	\$ 1,186	\$ 60	\$ -	\$ 1,246
	15.5. Additional Commissioning Services. (5 full-days on-site)		8	40	40	16									104	\$ 19,136	\$ 1,276	\$ 7,460	\$ 27,872
	15.6. Pump Witness Testing. (on-site and travel time = 3 days)			24											24	\$ 4,464	\$ 1,288	\$ -	\$ 5,752
	15.7. PLC Witness Testing. (on-site and travel time = 3 days)															\$ -	\$ -	\$ 7,460	\$ 7,460

ATTACHMENT C

ARWA Booster Pump Station & Delivery P Construction Phase Services																											
Gupta & Associates, Inc.																											
TASK SUMMARY - BASIC SERVICES	Principal		Project Manager		Engineer - Senior		Engineer		Project Engineer		Designer - Senior		Designer		CAD Tech - Senior		CAD Tech		Admin		Subtotal		ODCs	SUBs	Markup 5%	TOTAL Cost	
	Rate: \$	260	Rate: \$	250	Rate: \$	230	Rate: \$	175	Rate: \$	150	Rate: \$	140	Rate: \$	105	Rate: \$	110	Rate: \$	90	Rate: \$	75	Hours	Cost					Hours
1.0	Project Management/Administration	0	\$ -	18	\$ 4,500	0	\$ -	8	\$ 1,400	0	\$ -	5	\$ 700	0	\$ -	0	\$ -	0	\$ -	18	\$ 1,350	49	\$ 7,950	\$469	\$0	\$0	\$ 8,419
	1.1: Project Management/Administration		\$ -	18	\$ 4,500		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	18	\$ 1,350	49	\$ 7,950	\$90	\$0	\$0	\$ 4,590
	1.2: Invoice Processing		\$ -		\$ -	0	\$ -		\$ -		\$ -	5	\$ 700		\$ -		\$ -		\$ -	18	\$ 1,350	23	\$ 2,050	\$41	\$0	\$0	\$ 2,091
	1.3: Meetings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.4: Pre-Design Kickoff Meeting		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.5: Design Progress Meetings (with Owner)		\$ -		\$ -		\$ -	8	\$ 1,400		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	8	\$ 1,400	\$338	\$0	\$0	\$ 1,738
	1.6: Pre-Construction Meeting		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.7: Meetings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.8: Pre-Design Kickoff Meeting		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.9: Design Progress Meetings (with Owner)		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	1.10: Pre-Construction Meeting		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
7.0	Construction Phase Services	0	\$ -	0	\$ -	24	\$ 5,520	67	\$ 11,725	219	\$ 32,850	94	\$ 13,160	0	\$ -	0	\$ -	0	\$ -	39	\$ 2,925	443	\$ 66,180	\$5,664	\$0	\$0	\$ 71,844
	ED&C		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.1: Conformed Drawings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.2: Shop Drawing Review		\$ -		\$ -		\$ -		\$ -	135	\$ 20,250	45	\$ 6,300		\$ -		\$ -		\$ -	23	\$ 1,725	203	\$ 28,275	\$566	\$0	\$0	\$ 28,841
	7.3: RFI Review		\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.4: Contract Change Processing		\$ -		\$ -		\$ -	2	\$ 350	6	\$ 900		\$ -		\$ -		\$ -		\$ -		\$ -	8	\$ 1,250	\$25	\$0	\$0	\$ 1,275
	7.5: Additional Site Visits		\$ -		\$ -		\$ -	24	\$ 4,200		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	24	\$ 4,200	\$1,014	\$0	\$0	\$ 5,214
	7.6: Final Acceptance Walk-Through and Punchlist		\$ -		\$ -		\$ -	16	\$ 2,800		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	16	\$ 2,800	\$676	\$0	\$0	\$ 3,476
	7.7: Record Drawings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.8: Monthly Project Progress Meetings (Construction)		\$ -		\$ -	24	\$ 5,520		\$ -		\$ -	24	\$ 3,360		\$ -		\$ -		\$ -	3	\$ 225	51	\$ 9,105	\$2,042	\$0	\$0	\$ 11,147
	7.9: Final O&M Documentatation		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	I&C		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.10: Conformed Drawings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.11: Shop Drawing Review		\$ -		\$ -		\$ -		\$ -	75	\$ 11,250	25	\$ 3,500		\$ -		\$ -		\$ -	13	\$ 975	113	\$ 15,725	\$315	\$0	\$0	\$ 16,040
	7.12: RFI Review		\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.13: Contract Change Processing		\$ -		\$ -		\$ -	1	\$ 175	3	\$ 450		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 625	\$13	\$0	\$0	\$ 638
	7.14: Additional Site Visits		\$ -		\$ -		\$ -	24	\$ 4,200		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	24	\$ 4,200	\$1,014	\$0	\$0	\$ 5,214
	7.15: Final Acceptance Walk-Through and Punchlist		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.16: Record Drawings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.17: Monthly Project Progress Meetings (Construction)		\$ -		\$ -	0	\$ -		\$ -		\$ -	0	\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	7.18: Final O&M Documentatation		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
9.0	Special Services	0	\$ -	0	\$ -	0	\$ -	64	\$ 11,200	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	64	\$ 11,200	\$1,774	\$0	\$0	\$ 12,974
	9.1: MCC Witnessed Factory Test		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	9.2: VFD Witnessed Factory Test		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	9.3: Generator Witness Factory Test		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	9.4: PLC Factory Acceptance Testing		\$ -		\$ -		\$ -	32	\$ 5,600		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	32	\$ 5,600	\$887	\$0	\$0	\$ 6,487
	9.5: Site Startup & Commissioning		\$ -		\$ -		\$ -	32	\$ 5,600		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	32	\$ 5,600	\$887	\$0	\$0	\$ 6,487
	9.6: Meetings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	9.7: Meetings		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$0	\$0	\$0	\$ -
	TOTAL	0	\$0	18	\$4,500	24	\$5,520	139	\$24,325	219	\$32,850	99	\$13,860	0	\$0	0	\$0	0	\$0	57	\$4,275	556	\$85,330	\$7,907	\$0	\$0	\$ 93,237

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.6** Consider adoption of Resolution 2021-08-25-005 approving Work Order #9 with Blanton & Associates, Inc. for additional Environmental Services on the Authority's Phase 1B Segment E Project. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Alliance Water is working with the owner of a parcel for alignment to avoid possible grave sites. The attached work order would complete the investigation of the possible locations of the sites and would provide for the final environmental services necessary for the final pipeline alignment. The Texas Historical Commission is requiring the additional investigation.

The investigation would consist of two parts: 1) remote sensing of areas of interest, followed by 2) mechanical scraping to determine locations. The work order has been setup in a "worst-case" scenario whereby the entire area has to utilize both the remote sensing and mechanical scraping. The direction is to start in the area that has been designated in county records as a graveyard with the hopes that three sites will be found and verified in this area. If this becomes the case, then the remaining areas do not need to be surveyed and the cost can be saved.

A slight re-alignment of the pipeline through this area is required and the environmental field work associated with this slight change are also included in this work order.

Below are some of the key facts regarding the proposal:

Firm: Blanton & Associates, Inc.
Fee: \$526,203 (100% ARWA)
Work Order Type: Hourly, Not-to-Exceed
Anticipated Duration: 3 months
Project Manager: Velma Danielson

Staff is requesting that the Board approval of a Work Order with a fee not-to-exceed of \$526,203.

Attachment(s)

- Resolution 2021-08-25-005
- Blanton Proposal dated August 11 2021.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-005 approving Work Order #9 with Blanton & Associates, Inc. for additional Environmental Services on the Authority's Phase 1B Segment E Project.



ALLIANCE WATER

RESOLUTION NO. 20210825-005

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #9 BETWEEN THE AUTHORITY AND BLANTON & ASSOCIATES, INC. FOR ADDITIONAL ENVIRONMENTAL SERVICES ASSOCIATED WITH THE AUTHORITY'S PHASE 1B SEGMENT E PIPELINE PROJECTS AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with Blanton & Associates, Inc. for professional environmental services and related matters in May 2018.

2. The Authority hired Kimley-Horn & Associates to serve as the Owner's Representative for the Authority's Phase 1B Program. The Owner's Representative role is to assist the Authority with development of the Phase 1B Program as a whole, including coordination with all design firms after selection through completion of the Program.

3. The Authority entered into a work order with Blanton & Associates, Inc. for environmental investigations for the Authority's Phase 1B Projects in May 2018.

4. Additional environmental services, particularly for investigations of potential grave sites and for a re-route on Segment E.

5. The scope of services and fee for the attached work order was negotiated by the Executive Director and the Owner's Representative on behalf of the Authority. The work order references terms and conditions in the approved Master Agreement between the Authority and Walker Partners.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The attached work order for additional Environmental Investigation between the Authority and Blanton & Associates, Inc. is approved with a fee not-to-exceed \$526,203.

SECTION 2. The Authority's Executive Director, Graham Moore, is authorized to execute the attached agreement on behalf of the Authority.

SECTION 3. This Resolution shall be in full force and effect immediately upon its passage.

Resolution 20210825-005
Phase 1B Additional Environmental Investigation

ADOPTED: August 25, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

Blanton & Associates, Inc. - Environmental Scope for Alliance Water Phase 1B Program**Pursuant to Master Services Agreement Between Alliance Regional Water Authority and
Blanton & Associates, Inc., Dated May 23, 2018****Work Order No. 010****August 11, 2021****WORK ORDER NO. 010 - DEFINITION AND BACKGROUND**

On May 7, 2021, the Owner's Representative requested Blanton & Associates, Inc. (Environmental Consultant) prepare Work Order No. 010 to conduct remote sensing and mechanical scraping to determine the presence or absence of human burials within Parcel E031 and an area of the project's area of potential effects (APE) indicated by the Texas Historical Commission (THC) as an area of concern in Parcel E010 along the Phase 1B Program Segment E pipeline alignment.

The Environmental Consultant Work Order No. 010 scope of work consists of the task and sub-tasks indicated below (that are additive to Work Order Nos. 001 through 009 tasks) and in the attached cost spreadsheet.

Compensation for Work Order No. 010 will be on a time and materials basis. The Environmental Consultant will commence on work related to Task 15 upon execution of Work Order No. 010.

SCOPE OF WORK**15. Segment E Remote Sensing of Parcel E031 and portions of the APE in THC's Area of Concern in Parcel E010****15.1. Fieldwork****15.1.1. Land Acquisition Coordination**

15.1.1.1. Complete and submit property access request forms.

15.1.1.2. Coordinate with landowners to arrange for property access when directed by the land acquisition agent(s).

15.1.1.3. Additional work required to verify ROE property specific requirements.

Assumption(s) for Section 15.1.1:

- The Owner's Rep will issue ROE and notice to proceed (NTP) to the Environmental Consultant in order to begin fieldwork.
- Receipt of ROE will be provided to the Environmental Consultant prior to field surveys being conducted, as required by the Owner's Rep's Fieldwork Site Visit Protocol.
- B&A assumes one mobilization and will submit the Property Access Request Form (PARF) requesting a property access period of 120 days to complete fieldwork once B&A receives NTP and confirms the most recent segment alignment.
- B&A will conduct this fieldwork contingent upon receipt of the completed PARF, and provided that the Program does not make changes to survey area requirements and

landowner does not either revoke access or add last minute restrictions severely limiting B&A's ability to access this parcel or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned fieldwork to determine whether we are able to move forward as scheduled or will need to postpone fieldwork due to circumstances beyond either the Program's or B&A's control.

15.1.2 Fieldwork

15.1.2.1. Remote Sensing of Parcel E031 and portions of the APE in THC's Area of Concern in Parcel E010.

Assumption(s) for 15.1.2:

- B&A assumes Alliance Water will be responsible for having the investigation areas for remote sensing mowed to a vegetation height not to exceed 6 inches and cut vegetation mulched or removed from these areas prior to fieldwork.
- B&A assumes fieldwork will be conducted under existing Antiquities Permit No. 8918.
- B&A assumes remote sensing of two areas: Parcel E031 totaling up to 2,025 square meters and the APE in THC's Area of Concern in Parcel E010 totaling up to 4,062 square meters.
- B&A assumes remote sensing results will be incorporated into the draft survey report for Antiquities Permit No. 8918.

15.1.3 Deliverables

15.1.3.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.

15.1.3.2 Field Checklists (required to be submitted within two weeks of field survey event).

16. Segment E Mechanical Scraping of Parcel E031

16.1. Fieldwork

16.1.1 Fieldwork

16.1.1.1. Mechanical Scraping of Parcel E031.

Assumption(s) for 16.1.1:

- B&A assumes fieldwork will be conducted under existing Antiquities Permit No. 8918.
- B&A assumes no remote sensing anomalies were identified during remote sensing survey of Parcel E031.
- B&A assumes mechanical scraping of up to 2,025 square meters to a depth of up to 4 feet below current ground surface to groundtruth the presence/absence of burials.
- B&A assumes use of a trackhoe fitted with a 3 foot-wide smooth-bladed bucket, moving back dirt, and backfilling.

- B&A assumes that the timeline for this task will be 38 calendar days (i.e., 10 days on, 4 days off, 10 days on, 4 days off, 9 days on), barring weather, mechanical or ROE issues.
- B&A assumes no burial exhumation/relocation is included in this scope.
- B&A assumes mechanical scraping results will be incorporated into the draft survey report for Antiquities Permit No. 8918.

16.1.2 Deliverables

- 16.1.2.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.
- 16.1.2.2 Field Checklists (required to be submitted within two weeks of field survey event).

17. Segment E Mechanical Scraping of THC's Area of Concern in Parcel E010

17.1.1 Fieldwork

17.1.1.1. Mechanical Scraping of THC's Area of Concern in Parcel E010.

Assumption(s) for 17.1.1:

- B&A assumes fieldwork will be conducted under existing Antiquities Permit No. 8918.
- B&A assumes no remote sensing anomalies were identified during remote sensing survey of THC's Area of Concern in Parcel E010.
- B&A assumes mechanical scraping of up to 4,062 square meters to a depth of up to 4 feet below current ground surface to groundtruth the presence/absence of burials.
- B&A assumes simultaneous use of 2 trackhoes fitted with a 3 foot-wide smooth-bladed bucket, moving back dirt, and backfilling.
- B&A assumes that the timeline for this task will be 38 calendar days (i.e., 10 days on, 4 days off, 10 days on, 4 days off, 9 days on), barring weather, mechanical or ROE issues.
- B&A assumes no burial exhumation/relocation is included in this scope.
- Cultural resources survey of a rerouted project corridor to avoid any identified cemetery is not included in this scope.
- B&A assumes mechanical scraping results will be incorporated into the draft survey report for Antiquities Permit No. 8918.

17.1.2 Deliverables

- 17.1.2.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.
- 17.1.2.2 Field Checklists (required to be submitted within two weeks of field survey event).

18. Segment E Parcel E010 Corridor Realignment Survey

18.1. Fieldwork

18.1.1. Land Acquisition Coordination

- 18.1.1.1. Complete and submit one property access request form.
- 18.1.1.2. Coordinate with landowners to arrange for property access when directed by the land acquisition agent(s).
- 18.1.1.3. Additional work required to verify ROE property specific requirements.

Assumption(s) for Section 18.1.1:

- The Owner's Rep will issue ROE and notice to proceed (NTP) to the Environmental Consultant in order to begin fieldwork.
- Receipt of ROE will be provided to the Environmental Consultant prior to field surveys being conducted, as required by the Owner's Rep's Fieldwork Site Visit Protocol.
- B&A assumes one mobilization and will submit the Property Access Request Form (PARF) to complete fieldwork once B&A receives NTP and confirms the most recent segment alignment.
- B&A will conduct this fieldwork contingent upon receipt of the completed PARF, and provided that the Program does not make changes to survey area requirements and landowner does not either revoke access or add last minute restrictions severely limiting B&A's ability to access this parcel or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned fieldwork to determine whether we are able to move forward as scheduled or will need to postpone fieldwork due to circumstances beyond either the Program's or B&A's control.

18.1.2 Fieldwork

- 18.1.2.1. Cultural resources survey of Parcel E010 corridor realignment.

Assumption(s) for 18.1.2:

- B&A assumes fieldwork will be conducted under existing Antiquities Permit No. 8918.
- B&A assumes survey of a realigned corridor measuring 60 feet wide and 754 feet long and totaling approximately 1.07 acre.
- Cultural resources survey of a rerouted project corridor to avoid any identified archeological site is not included in this scope.
- B&A assumes survey results will be incorporated into the draft survey report for Antiquities Permit No. 8918.

18.1.3 Deliverables

- 18.1.3.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.
- 18.1.3.2 Field Checklists (required to be submitted within two weeks of field survey event).

Alliance Water 8/11/2021 Pipeline Consultant Detailed Overall Env Consultant Cost Breakdown																				Work Order #10 Summary											
																				Blanton	\$	526,203									
																				Total W.O. #10	\$	526,203									
Task	Project Role	PM	DPM	ENV Professional	Endangered Species Lead	Endangered Species Scientist	ENV Tech II	ENV Tech I	USACE Permit Lead	USACE Permit Scientist I	ENV Tech II	ENV Tech I	CR Lead	CR Scientist II	CR Scientist I	TWDB Lead	Scientist I	Env Tech II - Waters	Env Tech I - Waters	Senior GIS Analyst	GIS Analyst	GIS Technician	Admin	Project Advisor	Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions		
	Hourly Bill Rate	\$180.00	\$170.00	\$150.00	\$160.00	\$130.00	\$110.00	\$90.00	\$160.00	\$130.00	\$110.00	\$90.00	\$160.00	\$130.00	\$120.00	\$160.00	\$120.00	\$110.00	\$90.00	\$140.00	\$110.00	\$95.00	\$70.00	\$110.00							
Basic Services																															
15	Segment E Remote Sensing of Parcel E031 and portions of APE in THC's Area of Concern in Parcel E010																									64	\$ 8,720.00	\$ 15,735.00	\$ 24,455.00		
15.1	Fieldwork																														
15.1.1	Land Acquisition Coordination																														
15.1.1.1	Complete & submit property access request forms		2					2																			4	\$ 520.00		\$ 520.00	
15.1.1.2	Coordinate w/ landowners to arrange for property access when directed		2					2																			4	\$ 520.00		\$ 520.00	
15.1.1.3	Additional work required to verify ROE property specific requirements		2					2																			4	\$ 520.00		\$ 520.00	
15.1.2	Fieldwork																														
15.1.2.1	Remote Sensing of Parcel E031 & portions of APE in THC's areas of concern	2	6	2				8					20									4	2			44	\$ 6,120.00	\$ 15,735.00	\$ 21,855.00		
15.1.3	Deliverables																														
15.1.3.1	GIS data uploads		2					2																			4	\$ 520.00		\$ 520.00	
15.1.3.2	Field Checklists		2					2																			4	\$ 520.00		\$ 520.00	
16	Segment E Mechanical Scraping of Parcel E031																										692	\$ 99,630.00	\$ 74,506.00	\$ 174,136.00	
16.1	Fieldwork																														
16.1.1	Fieldwork																														
16.1.1.1	Mechanical Scraping of Parcel E031.	2	6	2				8					344	306								10	6			684	\$ 98,590.00	\$ 74,506.00	\$ 173,096.00		
16.1.2	Deliverables																														
16.1.2.1	GIS data uploads		2					2																			4	\$ 520.00		\$ 520.00	
16.1.2.2	Field Checklists		2					2																			4	\$ 520.00		\$ 520.00	
17	Segment E Mechanical Scraping of Parcel E010																										1,298	\$ 178,360.00	\$ 139,896.00	\$ 318,256.00	
17.1.1	Fieldwork																														
17.1.1.1	Mechanical Scraping of THC's Area of Concern in Parcel E010	2	6	2				8					340	918								8	6			1,290	\$ 177,320.00	\$ 139,896.00	\$ 317,216.00		
17.1.2	Deliverables																														
17.1.2.1	GIS data uploads / updates		2					2																			4	\$ 520.00		\$ 520.00	
17.1.2.2	Field Checklists		2					2																			4	\$ 520.00		\$ 520.00	
18	Segment E Parcel E010 Corridor Realignment Survey																										66	\$ 8,930.00	\$ 426.00	\$ 9,356.00	
18.1	Fieldwork																														
18.1.1	Land Acquisition Coordination																														
18.1.1.1	Complete & submit one property access request form		1					1																			2	\$ 260.00		\$ 260.00	
18.1.1.2	Coordinate w/ landowners to arrange for property access when directed		2					2																			4	\$ 520.00		\$ 520.00	
18.1.1.3	Additional work required to verify ROE property specific requirements		1					1																			2	\$ 260.00		\$ 260.00	
18.1.2	Fieldwork																														
18.1.2.1	Cultural resources survey of Parcel E010	2	6	2				8					16	12								2	2			50	\$ 6,850.00	\$ 426.00	\$ 7,276.00		
18.1.3	Deliverables																														
18.1.3.1	GIS data uploads/updates		2					2																			4	\$ 520.00		\$ 520.00	
18.1.3.2	Field checklists		2					2																			4	\$ 520.00		\$ 520.00	
																									\$ 2,120.00	\$ 295,640.00	\$ 230,563.00	\$ 526,203.00			

OTHER DIRECT COST		# OF UNITS				COST BY TASK				TOTAL COST
Item	Per Unit	TASK 15	TASK 16	TASK 17	TASK 18	TASK 15	TASK 16	TASK 17	TASK 18	
Remote Sensing by Bob Gearhart	\$ 15,605.00	1				\$ 15,605.00	\$ -	\$ -	\$ -	\$ 15,605.00
Lodging	\$ 120.00		58	104		\$ -	\$ 6,960.00	\$ 12,480.00	\$ -	\$ 19,440.00
GPS	\$ 100.00		29	29	1	\$ -	\$ 2,900.00	\$ 2,900.00	\$ 100.00	\$ 5,900.00
Camera	\$ 45.00					\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Mileage	\$ 0.58					\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Rental	\$ 100.00	1	37	35	2	\$ 100.00	\$ 3,700.00	\$ 3,500.00	\$ 200.00	\$ 7,500.00
4X4 Vehicle Rental	\$ 125.00					\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Fuel	\$ 30.00	1	8	8	1	\$ 30.00	\$ 240.00	\$ 240.00	\$ 30.00	\$ 540.00
Per Diem - Meals	\$ 45.00		58	104		\$ -	\$ 2,610.00	\$ 4,680.00	\$ -	\$ 7,290.00
Misc. (Tolls, Parking)	\$ 10.00					\$ -	\$ -	\$ -	\$ -	\$ -
Field Supplies	\$ 20.00					\$ -	\$ -	\$ -	\$ -	\$ -
Facility Rental	\$ 800.00					\$ -	\$ -	\$ -	\$ -	\$ -
Backhoe Rental	\$ 1,000.00					\$ -	\$ -	\$ -	\$ -	\$ -
Trackhoe Rental	\$ 2,000.00		29	58		\$ -	\$ 58,000.00	\$ 116,000.00	\$ -	\$ 174,000.00
Overnight Mail	\$ 40.00					\$ -	\$ -	\$ -	\$ -	\$ -
Mail	\$ 0.50					\$ -	\$ -	\$ -	\$ -	\$ -
Color Plot (sq.ft.)	\$ 1.50					\$ -	\$ -	\$ -	\$ -	\$ -
Color Copies (per 8.5x11 sheet)	\$ 0.35					\$ -	\$ -	\$ -	\$ -	\$ -
Color Copies (per 11x17 sheet)	\$ 0.50					\$ -	\$ -	\$ -	\$ -	\$ -
Copies (per 8.5x11 sheet)	\$ 0.10					\$ -	\$ -	\$ -	\$ -	\$ -
Copies (per 11x17 sheet)	\$ 0.10					\$ -	\$ -	\$ -	\$ -	\$ -
Court Report	\$ 500.00					\$ -	\$ -	\$ -	\$ -	\$ -
Curation of Archeological Materials	\$ 230.00					\$ -	\$ -	\$ -	\$ -	\$ -
Newspaper Ads	\$ 1,200.00					\$ -	\$ -	\$ -	\$ -	\$ -
Archeological Site Form TARL Processing Fee	\$ 96.00		1	1	1	\$ -	\$ 96.00	\$ 96.00	\$ 96.00	\$ 288.00
TOTAL OTHER DIRECT COST						\$ 15,735.00	\$ 74,506.00	\$ 139,896.00	\$ 426.00	\$ 230,563.00

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.7 Consider adoption of Resolution 2021-08-25-006 approving Work Order #2 with CP&Y, Inc. for SCADA programming services on the Authority's Phase 1B infrastructure, as recommended by the Technical Committee. ~ *Graham Moore, P.E., Executive Director*
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Background/Information

Alliance Water is in need of SCADA programming and configuration services for the Phase 1B system. The Authority reached out to CP&Y, Inc. to request a proposal for this effort as CP&Y was instrumental in the hierarchy of the SCADA system and selection of system software. The services will generally consist of:

- Design, configure & program SCADA to include the PLC program, SCADA HMI program and SCADA reports for the Phase 1B project
- Integrate the Phase 1A system into the Phase 1B system
- Startup and test the entire SCADA system for 1B, including the integrated 1A system.
- ARWA to provide the remote access equipment and remote wireless services for engineer to remote access SCADA system.

Below are some of the key facts regarding the proposal:

Firm: CP&Y, Inc.
Fee: \$1,085,390 (50% ARWA)
Work Order Type: Hourly, Not-to-Exceed
Anticipated Duration: 25 months
Project Manager: Marisa Vergara, P.E.

Staff is requesting Board approval of a Work Order with a fee for the basic services of \$970,150 and a fee for supplemental effort in an amount not-to-exceed \$115,240 for a total fee of \$1,085,390. The Executive Director will be given the discretion to authorize the supplemental effort if needed.

Attachment(s)

- Resolution 2021-08-25-006
- August 4, 2021 – CP&Y Scope of Services Proposal for Phase 1B SCADA Programming.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

Recommendation(s)

- The Technical Committee unanimously recommended approval of the work order.

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-006 approving Work Order #2 with CP&Y, Inc. for SCADA Programming Services of the Authority's Phase 1B infrastructure.



ALLIANCE WATER

RESOLUTION NO. 20210825-006

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #2 BETWEEN THE AUTHORITY AND CP&Y, INC. FOR SCADA PROGRAMMING SERVICES RELATED TO THE AUTHORITY'S PHASE 1B INFRASTRUCTURE AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with CP&Y, Inc. ("CP&Y") for professional engineering and surveying services and related matters in October 2018.

2. The Authority hired Kimley-Horn & Associates to serve as the Owner's Representative for the Authority's Phase 1B Program. The Owner's Representative role is to assist the Authority with development of the Phase 1B Program as a whole, including coordination with all design firms after selection through completion of the Program. As a member of the Owner's Representative team, CP&Y led the effort to organize the SCADA planning and overall system architecture.

3. The Authority awarded a construction contract for the Water Treatment Plant and needs to have a firm provide the programming services for the overall Phase 1B SCADA system, to include incorporation of the Phase 1A data into the overall network.

4. The scope of services and fee for the attached work order was negotiated by the Executive Director on behalf of the Authority. The work order references terms and conditions in the approved Master Agreement between the Authority and CP&Y.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The attached work order for SCADA Programming Services for the Project between the Authority and CP&Y, Inc. is approved to be billed based on actual time and materials in an amount not-to-exceed \$970,150.

SECTION 2. The Authority's Executive Director, Graham Moore, is authorized to execute the attached agreement on behalf of the Authority.

SECTION 3. The Authority's Executive Director is authorized to issue supplemental work orders not to exceed, \$115,240.

SECTION 4. This Resolution shall be in full force and effect immediately upon its passage.

Resolution 20210825-006
Phase 1B SCADA Programming

ADOPTED: August 25, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors



Scope of Services Proposal for Phase 1B SCADA Programming

Alliance Regional Water Authority

Scope of Work for Engineering Services

August 4, 2021

I. General Overview

The general scope is for Engineering Services for ARWA Phase 1B Project SCADA system programming and configuration. The Engineer shall provide following services for Phase 1B SCADA system HMI and PLC configuration and programming:

1. Design, configuration, and program SCADA system include PLC program, SCADA HMI program, and SCADA reports for Phase 1B project.
2. Design, configuration, and program SCADA system to integrate Phase 1A system.
3. Startup and test the entire SCADA system for Phase 1B projects including Phase 1A system integration.
4. ARWA shall provide remote access equipment and remote wireless services for engineer to remote access SCADA system.

The scope of services of SCADA system design, programming and configuration, startup and test shall consist of two engineering services: Basic and Supplemental.

II. Basic Scope of Work

Task 1: Project Management

Plan: Start at September 2021 and complete in Oct 2023: Total 25 months

1.1 Project management:

- 1.1.1 These services will include preparation of Project Controls including progress reports, action items log, decision log, design meetings, independent technical review, SCADA design workshops, schedule, and invoicing.
- 1.1.2 Coordinate with design consultant on construction process control/operation updates that affect SCADA programming.
- 1.1.3 Conduct project process and design status meetings. Each meeting will be 1 hour. Total number of meetings will be 12.



Task 2: SCADA Programming Standard Development

Plan: Start at September 2021 and complete in November 2021: Total 3 months

2.1 Develop SCADA system programming and configuration standards for Phase 1B. The design standard will be used for future ARWA SCADA system design. The standards will define each design of SCADA system program and configuration including equipment tag naming, HMI screen animation, HMI/PLC database, SCADA network, SCADA HMI alarm, datalogging and reports. Project management

This task includes the Standard submittal. Engineer will provide two submittals of the SCADA system program and configuration standards.

2.2 Conduct SCADA Standards review meetings.

2.3. Final version of SCADA standards. Incorporate ARWA's comment on the first submittal.

Task 3: Phase 1A BPS and Buda Delivery Point SCADA Integration

Provide SCADA HMI configuration and program for Phase 1A Booster Pump Station and Buda Delivery Point. Total number of PLCs: 2.

Plan: Start at October 2021 and complete in April 2022: Total 8 months

3.1 Conduct one day site visit to the pump station and delivery points.

3.2 SCADA HMI submittal design/review meetings. Remote meetings via MS Team.

3.3 PLC configuration and program. Development SCADA database. HMI screen, alarm and event, and historian program. Internal SCADA configuration and program test.

3.4 Existing PLC program modification: The scope includes software program modifications, if required. In general, the existing booster pump station and delivery point PLC program shall not be modified or changed unless some operation or control functions need to add or change. The phase 1A PLC program software change and modifications are budgeted with listed hours. Additional budget is listed in the Supplemental services.

3.5 Phase 1A SCADA system used the tag name that are different from Phase 1B design standards. Phase 1B SCADA will use standardized tag name for Phase 1A system. Change entire of Phase 1A equipment tag could be very cost. Recommend keeping the existing tag at facility and use new tag in the SCADA system:

3.5.1 Keep facility tag name intact and match ARWA SCADA Standards.

3.5.2 Provide a reference table of new and old tag name. Print and install the table on the back of PLC panel door.

3.5.3 Engineer to provide modified AutoCAD drawings of the existing PLC panel to show new tag along with the existing tag to facilitate maintenance. ARWA to provide as-built panel AutoCAD drawing.

3.6 Provide design submittal, training manual and Owner Manual (OM).

3.7 Provide training on operation and SCADA HMI configuration. Training will be 4 hour and remote training class by using Microsoft Team.



Task 4: Well field SCADA HMI and PLC Programming

Provide SCADA HMI and PLC programming for Phase 1B Well Field Facility. Total number of PLCs will be four (4) PLCs.

Plan: Start at December 2021 and complete in May 2022: Total 6 months

- 4.1 PLC configuration and program. Development SCADA database. HMI screen, alarm and event, and historian program. Conduct internal SCADA configuration and program at Engineer's office.
- 4.2 Provide design submittal, training manual and Owner Manual (OM).

Task 5: Water Treatment Plant-Plant PLC SCADA HMI and PLC Programming

Configure SCADA Top-end HMI servers and all workstations. Provide SCADA HMI and PLC programming for Phase 1B WTP plant PLC. Total number of PLCs will be three (3) PLCs.

Plan: Start at Oct 2021 and complete in Oct 2022: Total 12 months

- 5.1 Configure SCADA Top-end HMI servers and all workstations. Install SCADA HMI software. Configure computer network communication. Test all software and computer communication.
- 5.2 SCADA HMI submittal design/review meeting 16 hour (2 meeting, each 8 hour). Remote meeting via MS Team.
- 5.3 PLC configuration and program. Development SCADA database. HMI screen, alarm and event, and historian program. Conduct internal SCADA configuration and program at Engineer's office.
- 5.4 Provide design SCADA PLC/HMI submittal, training manual and Owner Manual (OM).
- 5.5 SCADA OM submittal design/review meeting 8 hour (2 meeting, each 4 hour). Remote meeting via MS Team.
- 5.6 Chemical system SCADA PLC program.

Task 6: Water Treatment Plant- SCADA HMI System for Vendor provided systems

Provide SCADA HMI programming for Phase 1B WTP vendor provided systems. The vendor provided systems will have (8) PLCs. The vendor provided system will be Filter system (8 PLCs) and Lime system (1 PLC).

Plan: Start at December 2021 and complete in November 2022. Total 12 months

- 6.1 Development SCADA database. HMI screen, alarm and event, and historian program. Conduct internal SCADA configuration and program at CP&Y's Dallas office
- 6.2 Refer to task 13.4 for scope of work.
- 6.3 Provide design submittal, training manual and Owner Manual (OM).

**Task 7: Booster Pump Station Programming**

Provide SCADA HMI and PLC programming for Phase 1B Booster Pump Station. Total number of PLCs will be one (1) PLCs.

Plan: Start at February 2022 and complete in July 2022. Total 6 months

- 7.1 PLC configuration and program. Development SCADA database. HMI screen, alarm and event, and historian program. Internal SCADA configuration and program test.
- 7.2 Provide design submittal, training manual and Owner Manual (OM).

Task 8: Delivery Point and Elevated Storage Tank

Provide SCADA HMI and PLC programming for Phase 1B delivery points. Total number of delivery points is 11. Each delivery point will have one PLC.

Plan: Start at February 2022 and complete in July 2022. Total 6 months

- 8.1 PLC configuration and program. Development SCADA database. HMI screen, alarm and event, and historian program. Internal SCADA configuration and program test.
- 8.2 Provide design submittal, training manual and Owner Manual (OM).

Task 9: SCADA Report

Provide SCADA Regulatory and Operation Reports. Total number of reports will be Ten (10).

Plan: Start at May 2022 and complete in Oct 2022. Total 6 months

- 9.1 Design configure and program reports. Engineer will work with ARWA to develop each report format and provide report format submittal.
- 9.2 Provide design submittal, training manual and Owner Manual (OM).

Task 10: Network Configuration

Provide network switch configuration for all remote facilities (remote facilities are well field, BPS, and Delivery Points).

Plan: Start at July 2022 and complete in Oct 2022. Total 4 months

- 10.1 Configure switch to disable network switch unused ports and security used ports for remote facility switches. Configure switch to provide network backup link between fiber and wireless network.
- 10.2 Provide design submittal, training manual and Owner Manual (OM).

Task 11: Training

Provide operation and SCADA configuration training at ARWA office. One session of 4-hour operation training and one session of 8-hour SCADA HMI and PLC configuration training. Plant: TBD



Task 12: SCADA Development Expense

SCADA development expense includes 3-year license SCADA HMI and PLC program and test equipment.

Plan: Start at September 2021 and complete in Feb 2024: Total 30 months

Task 13: System Startup

Plan: Start at Jan 2023 and complete in Oct 2023. Total 10 months

13.1 Phase 1A Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 1 day by one project engineer.

13.2 Well field Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 1 day by one project engineer.

13.3 Water Treatment Plant--Plant SCADA Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 2 days by one senior and 2 project engineers.

13.4 Water Treatment Plant—Vendor provided PLC-Plant SCADA Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 3 (three) days by one senior and 1(One) project engineers.

13.5 Booster Pump Station Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 1 day by 1 (One) senior and 1 project engineer.

13.6 Delivery Point Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 2 (two) days by 2 (Two)project engineers.

13.7 SCADA report Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 1 (one) day by 1 (One)project engineer.

13.8 Network Configuration Startup: include remote startup/test from CP&Y Dallas office and field startup at facility. Task includes 1 (One) field startup 1 (one) day by 1 (One)project engineer.

Task 14 - Supplemental Scope of Work

Task 14.1: Phase 1A System Startup

This task includes 1 (One) field startup 2(Two) days by 1(One) Project Engineer.

Task 14.2: Well Field System Startup

This task includes 1 (One) field startup 2(Two) days by 1(One) Project Engineer.



**Task 14.3: Water Treatment Plant—
Plant SCADA System Startup**

This task includes 4 (four) field startup trips. Each trip includes 3 (three) days by 1(One) Senior and 2 (Two) Project Engineers.

Task 14.4: Water Treatment Plant—Vendor Provided PLC SCADA System Startup

This task includes Filter and Lime system factory acceptance test at manufacturer’s facility and one field trip startup at water treatment plant. Field startup at treatment plant for vendor provided PLC will be 1(One) trip 5(Five) days by 1(One) Senior and 2 Project Engineers.

Task 14.5: Booster Pump Station Startup

This task includes 2 (two) field startup 2(Two) days by 1(One) Project Engineer.

Task 14.6: Delivery Point and Elevated Storage Tank Startup

This task includes 2 (two) field startup 2 (two) days by 2(two) Project Engineer.

Task 14.7: SCADA Report Startup

This task includes 1 (One) field startup 2(Two) days by 1(One) Project Engineer.

Task 14.8: Network Configuration Startup

This task includes 2 (two) field startup 2(Two) days by 1(One) Project Engineer.

III Scope of Services Provided by Others:

Engineering service for SCADA program and configuration does not include any item listed below:

- a. SCADA equipment hardware include computers, PLC and PLC hardware, network switches, and printers.
- b. SCADA software, Windows OS, Windows Office, and SCADA report software.
- c. Remote access to ARWA SCADA equipment
- d. Remote access service provided by Verizon.
- e. Security system configuration and programming
- f. The configuration of wireless gateway that provides remote communication to SCADA.
- g. SCADA fiber and IC construction service including submittal review, RFI response, change order, and meeting. These services will be separated engineering services.
- h. Vendor provided PLC programming and configuration.
- i. Plant SCADA PLC program for water treatment plant lime and chemical system automation control such as flow pacing and residual control.
- j. Plant SCADA PLC program for water treatment plant filter system automation control such as filter backwash schedule and backwash automation sequence



Notes:

- 1. Item III. a, b, c, d, e, f will be provided by IC contractor.
- 2. Item III. h, i, and j will be provided by equipment manufacturer contractor.

IV. Special Services Not Included (Additional Service)

- a. Services for equipment hardware trouble shooting after the SCADA system has final acceptance.
- b. Warranty Support Services.

V. Compensation

The Fee for this scope of work is a time and material basis. Basic Services is \$970,150. Supplemental Services is \$115,240. Refer to the attached fee proposal for rates and additional detail.

CP&Y, Inc

Alliance Regional Water Authority

Authorized Signature

Authorized Signature

Marisa Treviño Vergara, PE - Sr. Vice President

Name

8/4/2021

Date

Date



ARWA PHASE 1B SCADA PROGRAMMING (DRAFT REVIEW)
FEE ESTIMATE FOR SCOPE OF SERVICES

\$ 1,085,390
Basic \$ 970,150
Supple \$ 115,240

TASK	POSITION	Principle	Sr. Eng/PM	PM	Proj. Eng	EIT	CAD Tech	Project Controls	Admin	TOTAL LABOR		Expenses	Travel Expense	Total
		\$ 270	\$ 240	\$175	\$ 165	\$ 130	\$ 125	\$ 140	\$ 90	Hours	Cost	Other		
SCADA Programming Services														
1 Project Management Services														
1.1	Project Management	24	60		40				80	204	\$ 34,680			\$ 34,680
	Consultant Coordination (6 trips)	12	24		24					60	\$ 12,960		\$3,300	\$ 16,260
	Progress Meetings (2 trips)	4	8		16					28	\$ 5,640		\$1,100	\$ 6,740
														\$ -
														\$ -
2 Standard Programming Development														
2.1	SCADA Standards		40		100	60			16	216	\$ 35,340			\$ 35,340
2.2	SCADA Standards Review Meetings		16		16					32	\$ 6,480		\$800	\$ 7,280
2.3	SCADA Standards Final		16		20	20			8	64	\$ 10,460			\$ 10,460
														\$ -
3 Phase 1A BPS and Buda Delivery Point SCADA Integration														
3.1	Site Visit		8		8					16	\$ 3,240		\$800	\$ 4,040
3.2	SCADA HMI Design Meeting		8		8					16	\$ 3,240			\$ 3,240
3.3	Database Design		8		40					48	\$ 8,520			\$ 8,520
	HMI Programming		8		40	40				88	\$ 13,720			\$ 13,720
	Internal Test		8		16	16				40	\$ 6,640			\$ 6,640
3.4	PLC Programming (Modification budget listed)		8		16					24	\$ 4,560			\$ 4,560
3.5	PLC Panel Tag name change -- Drawing/Cross Ref. Table		4		16		16			36	\$ 5,600			\$ 5,600
3.6	Documents/Submittal/Training/OM										\$ -			\$ -
	Design submittal		8		8	16			8	40	\$ 6,040			\$ 6,040
	Training manual		4		8	8			4	24	\$ 3,680			\$ 3,680
	Owner Manual		4		8	8			4	24	\$ 3,680			\$ 3,680
3.7	Training (Remote meeting)		4		8	8				20	\$ 3,320			\$ 3,320
														\$ -
4 Well field SCADA HMI and PLC programming														
4.1	Database Design		12		40	40				92	\$ 14,680			\$ 14,680
	PLC Programming		12		40					52	\$ 9,480			\$ 9,480
	HMI Programming		12		40	40				92	\$ 14,680			\$ 14,680
	Internal Test/Checking		12		32					44	\$ 8,160			\$ 8,160
4.2	Documents/Submittal/Training/OM										\$ -			\$ -
	Design submittal		8		8	16				32	\$ 5,320			\$ 5,320
	Training manual		2		4	8			2	16	\$ 2,360			\$ 2,360
	Owner Manual		2		4	8			2	16	\$ 2,360			\$ 2,360
														\$ -
5 Water Treatment Plant-Plant PLC SCADA HMI and PLC programming														
5.1	Server/Workstation/Network Configuration/Software Installation		32		40					72	\$ 14,280			\$ 14,280
5.2	SCADA PLC Submit/HMI Design submittal Review Meeting		16		16					32	\$ 6,480		\$1,600	\$ 8,080

5.3	Database Design		40		80				120	\$	22,800		\$	22,800
	PLC Programming		80		200				280	\$	52,200		\$	52,200
	HMI Programming		80		240	240			560	\$	90,000		\$	90,000
	Internal Test/Checking		52		80				132	\$	25,680		\$	25,680
5.4	Documents/Submittal/Training/OM									\$	-		\$	-
	Design submittal		32		48	56			136	\$	22,880		\$	22,880
	Training manual		4		12	16		4	36	\$	5,380		\$	5,380
	Owner Manual		4		8	8		4	24	\$	3,680		\$	3,680
5.5	Owner Manual Review Meeting		8		8				16	\$	3,240		\$	3,240
5.6	Chemical System SCADA PLC Programming		16		36				52	\$	9,780		\$	9,780
													\$	-
6	Water Treatment Plant- SCADA HMI System for Vendor provided systems												\$	-
6.1	Database Design		40		80				120	\$	22,800		\$	22,800
	PLC Programming									\$	-		\$	-
	HMI Programming		40		80	120			240	\$	38,400		\$	38,400
	Internal Test/Checking		24		32				56	\$	11,040		\$	11,040
6.2	Factory Acceptance Test Filter system (refer to supplemental)									\$	-		\$	-
	Factory Acceptance Test Lime system (refer to supplemental)									\$	-		\$	-
6.3	Documents/Submittal/Training/OM									\$	-		\$	-
	Design submittal		24		32	40			96	\$	16,240		\$	16,240
	Training manual		4		4	8		4	20	\$	3,020		\$	3,020
	Owner Manual		4		4	8		4	20	\$	3,020		\$	3,020
								4					\$	-
7	Booster Pump Station												\$	-
7.1	Database Design		16		32	32			80	\$	13,280		\$	13,280
	PLC Programming		32		40				72	\$	14,280		\$	14,280
	HMI Programming		32		40	80			152	\$	24,680		\$	24,680
	Internal Test/Checking		16		16				32	\$	6,480		\$	6,480
7.2	Documents/Submittal/Training/OM									\$	-		\$	-
	Design submittal		16		24	32			72	\$	11,960		\$	11,960
	Training manual		4		4	8		4	20	\$	3,020		\$	3,020
	Owner Manual		4		4	8		4	20	\$	3,020		\$	3,020
													\$	-
8	Delivery Point and Elevated Storage Tank												\$	-
8.1	Database Design		8		48				56	\$	9,840		\$	9,840
	PLC Programming		4		48				52	\$	8,880		\$	8,880
	HMI Programming		8		48	40			96	\$	15,040		\$	15,040
	Internal Test/Checking		8		16				24	\$	4,560		\$	4,560
8.2	Documents/Submittal/Training/OM									\$	-		\$	-
	Design submittal		8		24	32			64	\$	10,040		\$	10,040
	Training manual		4		8	8			20	\$	3,320		\$	3,320
	Owner Manual		4		8	8			20	\$	3,320		\$	3,320
													\$	-
9	SCADA Report												\$	-
9.1	Design/Programming		40		120	60			220	\$	37,200		\$	37,200
	Internal Test/Checking		24		40				64	\$	12,360		\$	12,360
9.2	Documents/Submittal/Training/OM									\$	-		\$	-
	Design submittal		8		16	16			40	\$	6,640		\$	6,640

	Training manual		4		8	8			20	\$	3,320			\$	3,320	
	Owner Manual		4		8	8			20	\$	3,320			\$	3,320	
														\$	-	
10	Network Configuration													\$	-	
10.1	Well Site Network Switch Port Disable		8		16				24	\$	4,560			\$	4,560	
	WTP Network Rack SCADA Switch for remote site Network Security		8		40				48	\$	8,520			\$	8,520	
10.2	Documents/Submittal/Training/OM									\$	-			\$	-	
	Design submittal		8		8			16	32	\$	4,680			\$	4,680	
	Training manual		4		4	4		16	28	\$	3,580			\$	3,580	
	Owner Manual		4		8	8		16	36	\$	4,760			\$	4,760	
														\$	-	
11	Training													\$	-	
	SCADA Operation Training		8		16			8	32	\$	5,280			\$	5,280	
	SCADA Configuration Programming Training		8		16			8	32	\$	5,280		\$	800	\$	6,080
														\$	-	
12	Development Expense													\$	-	
	Software License--CP&Y VTScada/PLC 3yr license									\$	24,000		\$	24,000	\$	24,000
	Test Equipment									\$	9,000		\$	9,000	\$	9,000
														\$	-	
13	System Startup and Test													\$	-	
														\$	-	
13.1	Phase 1A													\$	-	
	Startup /Test Remote from CPY office		8		16				24	\$	4,560			\$	4,560	
	Field Startup One Trip 1 day 1 Project Engr				8								\$	800	\$	800
														\$	-	
13.2	Well Field													\$	-	
	Startup /Test Remote from CPY office		24		60				84	\$	15,660			\$	15,660	
	Field Startup One Trip 1 day 1 Project Engr				8								\$	800	\$	800
														\$	-	
13.3	Water Treatment Plant-- Plant SCADA													\$	-	
	Startup /Test Remote from CPY office		8		24				32	\$	5,880			\$	5,880	
	Field Trip 2 Day 1Sr Eng 2PrjEngr		16		16	16			48	\$	8,560		\$	1,350	\$	9,910
														\$	-	
13.4	Water Treatment Plant-- Vendor PLC-Plant SCADA													\$	-	
	Factory Acceptance Test Filter system				8											
	Factory Acceptance Test Lime system				8											
	Startup /Test Remote from CPY office				24				24	\$	3,960			\$	3,960	
	Field Trip 3 Day 1Sr Eng 1 PrjEngr		24		24				48	\$	9,720		\$	1,750	\$	11,470
														\$	-	
13.5	Booster Pump Station													\$	-	
	Startup /Test Remote from CPY office		16		40				56	\$	10,440			\$	10,440	
	Field Trip 1 Day 1Sr Eng 1 PrjEngr		8		8				16	\$	3,240		\$	1,600	\$	4,840

13.6	Delivery Point and Elevated Storage Tank												\$ -
	Startup /Test Remote from CPY office		16		48				64	\$ 11,760			\$ 11,760
	Field Trip 2 Day 2 PrjEngr				16	16			32	\$ 4,720		\$ 1,350	\$ 6,070
13.7	SCADA Report												\$ -
	Startup /Test Remote from CPY office		32		60			16	108	\$ 19,020			\$ 19,020
	Field Trip 1 Day 1 PrjEngr				8				8	\$ 1,320		\$ 800	\$ 2,120
13.8	Network Configuration												\$ -
	Startup /Test Remote from CPY office		24		40				64	\$ 12,360			\$ 12,360
	Field Trip 1 Day 1 PrjEngr				8				8	\$ 1,320		\$ 800	\$ 2,120
	Supplemental Service												\$ -
1	Phase 1A												\$ -
	Startup /Test (One Field Trip 2 Days) 1 PrjEngr				16				16	\$ 2,640		\$ 800	\$ 3,440
													\$ -
2	Well Field												\$ -
	Startup /Test (One Field Trip 2 Days) 1 PrjEngr				16							\$ 1,600	\$ 1,600
													\$ -
3	Water Treatment Plant-- Plant SCADA												\$ -
	Startup /Test (Four Trip Each 3 Days) 1 Sr Engr 2 PrjEngr		48		96	48			192	\$ 33,600		\$ 6,600	\$ 40,200
													\$ -
4	Water Treatment Plant-- Vendor PLC-Plant SCADA												\$ -
	Factory Acceptance Test Filter system		24		40				64	\$ 12,360			\$ 12,360
	Factory Acceptance Test Lime system		16		24				40	\$ 7,800			\$ 7,800
	Startup /Test (One Field Trip 5 Days) 1 Sr Engr 1 PrjEngr		16		40	40			96	\$ 15,640		\$ 3,150	\$ 18,790
													\$ -
5	Booster Pump Station												\$ -
	Startup /Test (Two Field Trip 2 Days) 1 PrjEngr				32	32			64	\$ 9,440		\$ 1,150	\$ 10,590
													\$ -
6	Delivery Point and Elevated Storage												\$ -
	Startup /Test Two Trip 2 Days 1 Proj Engr				32	32			64	\$ 9,440		\$ 1,150	\$ 10,590
													\$ -
7	SCADA Report												\$ -
	Startup /Test One Field Trip 2 Days 1 Project Engr				16				16	\$ 2,640		\$ 800	\$ 3,440
													\$ -
8	Network Configuration												\$ -
	Startup/Test Two Field Trip 2 Days 1 Project Engr				32				32	\$ 5,280		\$ 1,150	\$ 6,430
													\$ -
													\$ -
	Total Hours	40	1,264		2,644	1,168	16		232	5364		\$ 33,000	\$ 34,050
	Total Cost	\$10,800	\$303,360		\$436,260	\$151,840	\$2,000		\$20,880	\$925,140	\$ 1,051,340	Total Task Fee =	\$ 1,085,390

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.8** Discussion and possible direction to Staff regarding Considerations for Operations of the Authority's Water System. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

In June the Board of Directors instructed Staff to begin an analysis of the operations of the Authority's water system to include in-house operations, outsourced operations and a hybrid/transition model where the operations would be outsourced for a short period of time and then transfer to in-house.

Staff has prepared the attached presentation to set the framework for the analysis. Staff is requesting feedback from the Board as to the attributes to be considered and the schedule. Finally, does the Board wish to receive the updates on a monthly basis or does the Board wish to delegate the responsibility for the monthly effort to the Technical Committee with ultimately a recommendation from the Committee to the Board?

Attachment(s)

- Considerations for Operations of the ARWA Water System – August 20, 2021.

Board Decision(s) Needed:

- Possible direction to Staff.



Considerations for Operations of the ARWA Water System

August 20, 2021

Define Operations



- Well Field
- WTP
- Pipelines
- Booster Pump Stations (all)
- Elevated Tanks
- Delivery Points

Operational Scenarios to be Evaluated



In-House



Outsource



Hybrid / Transition

Attributes to Consider

Product Quality

Financial Viability

Infrastructure Strategy &
Performance

Customer Satisfaction

Operational Optimization

Definition of Attributes

Product Quality

- Meets or exceeds regulatory and reliability requirements
- Operates consistent with customer, public health, economic and ecological needs.

Financial Viability

- Understands and plans for full life-cycle cost of utility
- Effectively balances asset values, operations and maintenance expenditures and operating revenues
- Plans to invest in future needs
- Understand opportunities for diversifying revenue and raising capital

Definition of Attributes

Infrastructure Strategy & Performance

- Understands the condition of and costs associated with critical infrastructure needs
- Maintains and enhances assets over the long-term at the lowest possible life-cycle cost and risk
- Plans infrastructure investments consistent with community needs

Customer Satisfaction

- Provides reliable, responsive, and affordable services
- Receives timely customer feedback
- Is responsive to customer needs and emergencies

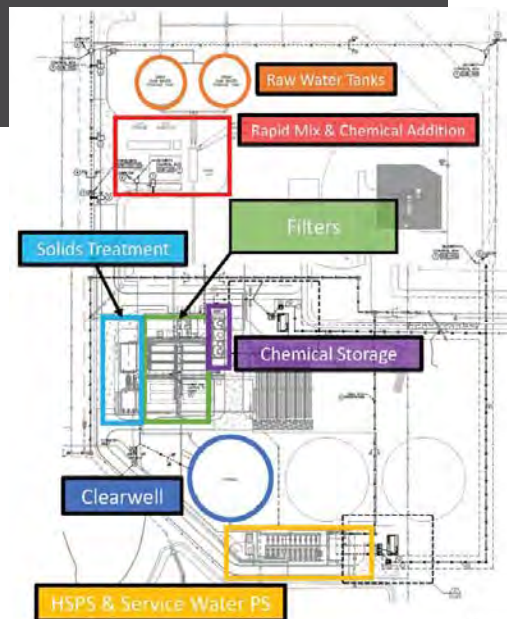
Definition of Attributes

Operational Optimization

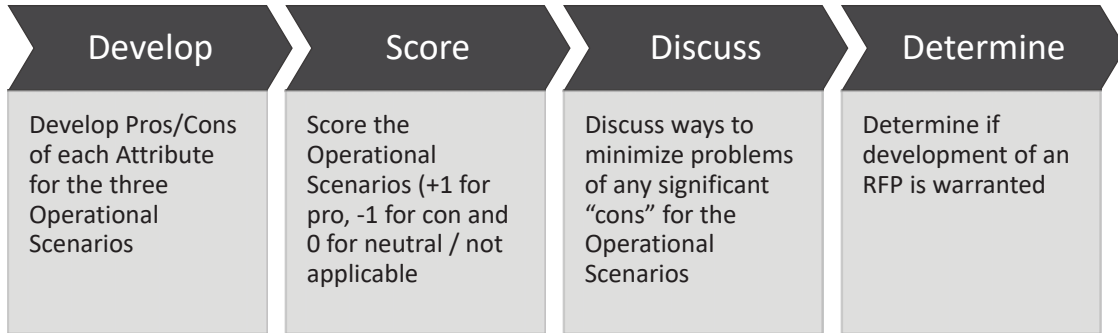
- Conducts ongoing performance improvements informed by performance monitoring
- Minimizes resource use and loss from day-to-day operations
- Manages and utilizes data from automated and smart systems
- Is aware and adopts operational and technology improvements

Likely Challenges to Analysis

- No Baseline for Current Operations (flow, electricity, chemicals, etc.)
- Defining Performance – need to provide enough specificity to be meaningful



Process



Next Steps / Schedule

- September & October – Pros/Cons Presentations
- October – Overall Scoring
- November – RFP Determination & “Con” Mitigation

If an RFP is deemed necessary, then the schedule for its preparation, solicitation and review will be produced. This will likely take a minimum of 6 months.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.9** Consider adoption of Resolution 2021-08-25-007 making appointments to the Technical Committee. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

There currently exists a vacancy on the Technical Committee that was previously filled by Tom Taggart. As a reminder, the Committee can at maximum include six Board members, just below a quorum of the Board. The following members are currently on the Technical Committee: James Earp – Kyle, Tim Samford – Kyle, Blake Neffendorf – Buda, Humberto Ramos – CRWA and Regina Franke – CRWA with the Buda Mayor, Lee Urbanovsky serving as a non-voting member.

Attachment

- Resolution 2021-08-25-007.

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-007 making appointments to the Technical Committee.



ALLIANCE WATER

RESOLUTION NO. 20210825-007

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS MAKING APPOINTMENTS TO THE TECHNICAL COMMITTEE; AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. The Alliance Regional Water Authority (the "Authority") Board of Directors (the "Authority Board") created and made appointments to the Technical Committee through the adoption of Resolution 20180328-004 in March 2018.

2. The Authority Board wishes to affirm some appointments and make a new appointment to the Technical Committee.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. The Authority Board appoints _____, _____, _____, _____, _____ as voting members to the Technical Committee.

SECTION 2. The Authority Board appoints Buda Mayor Lee Urbanovsky as a non-voting member of the Technical Committee.

SECTION 3. This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: August 25, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.10** Consider adoption of Resolution 2021-08-25-008 nominating a voting member of the Region 11 Guadalupe Regional Flooding Planning Group in the area of Water Utilities. ~ *Humberto Ramos, Director*
-

Background/Information

In October 2020 the Texas Water Development Board created regional flood planning groups based on drainage basins to ultimately create a statewide Drainage Plan. The majority of the ARWA area is covered by Region 11 – Guadalupe Regional.

The planning group is seeking to fill one seat dedicated to Water Utilities on the planning group.

Attachment(s)

- Resolution 2021-08-25-008

Board Decision(s) Needed:

- Adoption of Resolution 2021-08-25-008 nominating someone to fill the Water Utility seat and naming a possible back-up, should the primary nominee not be available to attend a meeting.



RESOLUTION NO. 20210825-008

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS NOMINATING A VOTING MEMBER TO THE REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP IN THE AREA OF WATER UTILITIES; AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. The Guadalupe Regional Flood Planning Group was established by the Texas Water Development Board on October 1, 2020 to help produce a regional flood plan that will feed into an overall statewide flood plan.

2. Region 11 consists of portions of Bandera, Bastrop, Blanco, Caldwell, Calhoun, Comal, DeWitt, Fayette, Gillespie, Goliad, Gonzales, Guadalupe, Hays, Karnes, Kendall, Kerr, Lavaca, Real, Refugio, Travis, Victoria and Wilson counties within the Guadalupe Basin.

3. The Region 11 Flood Planning Group has one seat dedicated to the interest category of Water Utilities and is currently seeking nominations to fill the seat.

4. The Region 11 Flood Planning Group Bylaws state that in order to be eligible for voting membership, a person must be capable of adequately representing the interest for which a member is ought, be willing to participate in the regional flood planning process, attend meetings and abide by the Bylaws.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE ALLIANCE REGIONAL WATER AUTHORITY:

SECTION 1. Alliance Water nominates _____ to serve as a Water Utilities representative on the Region 11 Guadalupe Regional Flood Planning Group.

SECTION 2. Alliance Water further nominates _____ to serve as an alternate in the Water Utilities representative seat on the Region 11 Guadalupe Regional Flood Planning Group, should the primary representative not be available.

SECTION 3. This Resolution shall be in full force and effect immediately upon its passage.

ADOPTED: August 25, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- I.11** Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff. ~ *Scott Miller / Jeff Hecker, Texas Solutions Group*
-

Background/Information

The second Special Session of the 87th Legislature began on August 7th. No items directly affecting water utilities, eminent domain or open meetings were on the Governor's call for the session. Staff and our Governmental Relations consultant will continue to monitor bills filed to determine if any will have impacts on the Authority. The special session can only last for 30 days unless extended by the Governor.

Board Decision(s) Needed:

- Possible direction to Staff.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, August 25, 2021 at 3:00 P.M.
San Marcos Activity Center, 501 E. Hopkins, San Marcos, TX 78666

- J.** BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Board Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
-

Background/Information

The Board Members have an opportunity to make announcements or to request that items be added to future Board or Committee agendas.