

**Alliance Regional Water Authority
Board of Directors**

REGULAR MEETING



ALLIANCE WATER

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572
Code: 604 612 920#

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.
Conference Call Number: 1-903-405-2572; Code: 604 612 920#

In accordance with Governor Abbott's Executive Order, declaration of the COVID-19 public health threat, and action to temporarily suspend certain provisions of the Texas Open Meetings Act, a quorum of Alliance Regional Water Authority's (the Authority's) Board of Directors will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, May 26, 2021. The public may participate in this meeting by calling the following number and code:

Conference Call Number: 1-903-405-2572
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Members of the public wishing to make public comment during the meeting must register by emailing info@alliancewater.org prior to 3:00 p.m. on May 26, 2021. 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 DIRECTORS AND ELECTION OF OFFICERS

C.1 Oath of Office and swearing in of Directors

C.2 Election of Officers for the May 2021 through April 2022 Board term

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 April 28, 2021. ~ *Graham Moore, P.E., Executive Director*

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

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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 Consider adoption of Resolution 2021-05-26-001 awarding a construction contract to Archer Western Construction, LLC. for the Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, contingent upon approval of the award by the Texas Water Development Board. ~ *Graham Moore, P.E., Executive Director*

I.2 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.3 Consider adoption of Resolution 2021-05-26-002 approving Work Order #5 with Walker Partners, LLC for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, as recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

I.4 Consider adoption of Resolution 2021-05-26-003 approving Work Order #7 with LNV, Inc. for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, as

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recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

- I.5 Consider adoption of Resolution 2021-05-26-004 approving Work Order #5 with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
 - I.6 Consider adoption of Resolution 2021-05-26-005 authorizing the Executive Director to amend the agreement with HDR, Inc. in an amount not-to-exceed \$7,500 for an Interim Water Rate Study for water shared between the City of San Marcos and Crystal Clear Special Utility District. ~ *Graham Moore, P.E., Executive Director*
 - I.7 Discussion of the draft Authority budget for FY 2021-22; and possible direction to staff. ~ *Graham Moore, P.E., Executive Director*
 - I.8 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.
- 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) regarding:*
 - A. *Water supply partnership options*
 - B. *Groundwater leases*
 - C. *Acquisition of real property for water supply project purposes*
 - 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 2021-05-26-006 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*

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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.

L. ADJOURNMENT

NOTE: *The Board of Directors may meet in Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. 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 2021	
Blake Neffendorf – Treasurer (Buda – Water Resources Coordinator)	April 2023	
Councilmember Mark Gleason (San Marcos)	April 2022	
Humberto Ramos (CRWA – Water Resources Director)	April 2021	
James Earp – Secretary (Kyle – Assistant City Manager)	April 2021	
Tom Taggart (San Marcos – Executive Director of Public Services)	April 2021	
Chris Betz – Chair (CRWA - President, County Line SUD)	April 2022	
Derrick Turley (Kyle – Water Quality Technician)	April 2021	
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 AND ELECTION OF OFFICERS

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C.1 Oath of Office and swearing in of Directors

Background/Information

The re-appointed Directors will be asked to complete the Oath of Office form that is attached. The oath will be read verbally at the meeting by each Director.

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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C.2 Election of Officers for the May 2021 through April 2022 Board term

Background/Information

Each May the Board will be required to elect Officers for the coming year. The Authority's bylaws identify the following four positions: Chair, Vice Chair, Treasurer and Secretary. The duties of each as outlined in the bylaws are described below.

Officer Positions and Duties

Section 4.2. Powers and Duties of the Chair. The Chair shall preside at all meetings of the Board. He or she shall have such duties as are assigned by the Board.

Section 4.3. Powers and Duties of the Vice Chair. The Vice Chair shall perform the duties and exercise the powers of the Chair upon the Chair's death, absence, disability, or resignation, or upon the Chair's inability to perform the duties of his or her office. Any action taken by the Vice Chair in the performance of the duties of the Chair shall be conclusive evidence of the absence or inability to act of the Chair at the time such action was taken.

Section 4.4. Treasurer. The Treasurer shall have custody of all the funds and securities of the Authority which come into his or her hands. When necessary or proper, he or she may endorse, on behalf of the Authority, for collection, checks, notes and other obligations and shall deposit the same to the credit of the Authority in a bank or banks or depositories designated by the Board; he or she may sign all receipts and vouchers for payments made to the Authority, either alone or jointly with another officer designated by the Board; whenever required by the Board, he or she shall render a statement of the Authority's accounts; he or she shall enter or cause to be entered regularly in the books of the Authority to be kept by him or her for that purpose full and accurate accounts of all moneys received and paid out on account of the Authority; he or she shall perform all acts incident to the position of Treasurer subject to the control of the Board; and he or she shall, if required by the Board, give such bond for the faithful discharge of his or her duties in such form as the Board may require. The Treasurer may, with approval of the Board by resolution, delegate any or all of these duties on an interim or ongoing basis to another Director, the Executive Director, or a member of the Authority staff.

Section 4.5. Secretary. The Secretary shall act as secretary of all meetings of the Board and keep the minutes of all meetings of the Board in books provided for that purpose; he or she shall attend to the giving and serving of all notices; he or she may attest the signatures of the Chair on all contracts, conveyances, franchises, bonds, deeds, assignments, mortgages, notes and other instruments of the Authority he or she shall have charge of the Authority's books, records, documents and instruments (except the books of account and financial records and securities of which the Treasurer shall have custody and charge), and such other books and papers as the Board

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may direct, all of which shall at all reasonable times be open to the inspection of any Director at the office of the Authority during business hours; and, he or she shall perform all duties incident to the office of Secretary subject to the control of the Board. The Secretary may, with approval of the Board by resolution, delegate any or all of these duties on an interim or ongoing basis to another Director, the Executive Director, or a member of the Authority staff.

Board Decision(s) Needed:

- Election of a Board Chair, Vice Chair, Treasurer and Secretary.

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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 and E.2 are presented as part of the consent agenda.

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

Attachment(s)

- 2021 04 28 Board Meeting Minutes

Board Decision(s) Needed:

- Approval of minutes.



Alliance Regional Water Authority

BOARD MEETING

MINUTES

Monday, April 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, April 28, 2021 via conference call in accordance with Governor Abbott's Executive Order declaring the COVID-19 public health threat and temporarily suspending certain provisions of the Texas Open Meetings Act.

- A. CALL TO ORDER.
The Alliance Water Board Meeting was called to order at 3:00p.m. by Mr. Betz.

- B. ROLL CALL.
 - **Present: Hughson, Taylor, Neffendorf, Gleason, Ramos, Earp, Taggart, Betz, Turley, and Kite with Allen joining after Item D.**
 - **Absent: Samford & Kalka.**

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

- D. CONSENT AGENDA
 - D.1 Consider approval of minutes of the Regular Meeting held March 31, 2021.
 - D.2 Consider approval of the financial report for February 2021.
 - D.3 Consider approval of the Quarterly Investment Report for the period ending on March 31, 2021
 - **Motion to approve the consent agenda items as presented was made by Mr. Taylor, seconded by Mr. Neffendorf and approved on a 11-0 vote.**

E. PUBLIC HEARINGS / PRESENTATIONS

- **None.**

F. ITEMS FOR DISCUSSION NOT REQUIRING ACTION

- F.1 Report on Technical Committee activities.
- F.2 Update and possible direction to Staff regarding the status of the Authority's Phase 1A projects, and direction to staff and consultants.
- F.3 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

- Mr. Moore reported that hybrid virtual/in-person Board meetings may start back in June.
- Mr. Moore also confirmed that the groundbreaking ceremony for the Water Treatment Plant will be on August 19, 2021 at 10 AM. A save the date e-mail will be sent out well prior to the event.
- Mr. Ramos noted that he would like to see previous Board members invited to the event.
- **No action.**

H. ITEMS FOR ACTION OR DISCUSSION/DIRECTION

- H.1 Update and discussion regarding the status of the Authority's Phase 1B program, and direction to staff and consultants.
 - **Mr. Sowa provided an update on the Phase 1B Program.**
 - **Mr. Ramos asked if the proposals will be reviewed by a Committee.**
 - **Mr. Moore responded that a five member committee will be utilized, but no Board members will be involved.**
 - **No Action.**
- H.2 Consider adoption of Resolution 2021-04-28-001 approving an Engagement Agreement with the Law Offices of Patricia Erlinger Carls for groundwater permitting support.
 - **Motion to adopt Resolution 2021-04-28-001 approving an Engagement Agreement with the Law Offices of Patricia Erlinger Carls as presented was made by Mr. Ramos, seconded by Mr. Taggart and approved on a 11-0 vote.**

- H.3 Consider adoption of Resolution 2021-04-28-002 making appointments to the Administrative Committee.
- **Motion to adopt Resolution 2021-04-28-002 appointing Mike Taylor, Jane Hughson and Humberto Ramos as voting members of the Administrative Committee and Micah Grau as a non-voting member was made by Mr. Earp, seconded by Mr. Neffendorf and approved on a 11-0 vote.**
- H.4 Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff.
- **No action.**
- I. BOARD MEMBER ITEMS OR FUTURE AGENDA ITEMS
- **None.**
- J.1 The Board of Directors recessed into Executive Session at 3:44 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 4:36 p.m.
- J.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 appeal land valuation provided in Special Commissioner's Hearing to the District Court was made by Mr. Taggart, seconded by Mr. Hughson and approved on a 11-0 vote.**
 - D. Consideration of Resolution 2021-04-28-003 approving a Purchase Agreement with Mission Way Property Management, LLC for a permanent pipeline easement on Parcel D024C.
 - **Motion to adopt Resolution 2021-04-28-003 approving a Purchase Agreement with Mission Way Property Management, LLC for a permanent pipeline easement on Parcel D024C was made by Mr. Taylor, seconded by Mr. Allen and approved on a 11-0 vote.**
 - E. Consideration of Resolution 2021-04-28-003 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 2021-04-28-003 finding Public Convenience and Necessity and authorizing Eminent Domain Proceedings, if necessary, for acquisitions as presented was made by Mr. Taylor, seconded by Mr. Allen and approved on a 11-0 vote.**

K. ADJOURNMENT

- **Meeting was adjourned at 4:40 p.m. based on the motion by Mr. Taylor, seconded by Ms. Hughson on a 11-0 vote.**

APPROVED: _____, 2021

ATTEST:

Chair, Board of Directors

Secretary, Board of Directors

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

Background/Information

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

Attachment(s)

- 2021 03 31 Financial Report

Board Decision(s) Needed:

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



Alliance Regional Water Authority

**Financial Statements
(Compilation)**

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

Alliance Regional Water Authority

Balance Sheet

As of March 31, 2021

04/27/21

Accrual Basis

Mar 31, 21

ASSETS

Current Assets

Checking/Savings

1004 · Broadway Bank

1005 · Broadway Checking (8040) 6,553.20

1010 · Broadway Savings (4415) 1,114,807.79

Total 1004 · Broadway Bank 1,121,360.99

1015 · TexStar (3310) 6,567,449.48

1050 · Broadway Bank (Reserved)

1051 · CRWA Debt Service (2785) 1,340,285.49

1052 · Kyle Debt Service (2787) 1,048,602.05

1055 · San Marcos Debt Service (6390) 1,222,393.24

1056 · Buda Debt Service (6391) 242,607.71

Total 1050 · Broadway Bank (Reserved) 3,853,888.49

1100 · Escrow Accounts

1105 · BOKF, Escrow, CRWA Series 2015A 335,035.94

1106 · BOKF, Escrow, Kyle Series 2015B 221,925.96

1107 · BOKF, Escrow, CRWA Series 2017A 301,527.16

1108 · BOKF, Escrow, Kyle Series 2017B 271,266.54

1109 · BOKF, Escrow, SM Series 2017C 383,573.04

1110 · BOKF, Escrow, Buda Series 2017D 43,173.12

1111 · BOKF, Escrow, CRWA Series 2019A 24,645,762.18

1112 · BOKF, Escrow, Kyle Series 2019B 22,475,778.43

1113 · BOKF, Escrow, SM Series 2019C 28,645,554.22

1114 · BOKF, Escrow, Buda Series 2019D 3,980,230.29

1115 · BOKF, Escrow, CRWA Series 2020A 29,066,338.07

1116 · BOKF, Escrow, CRWA 2020A-LM67 8,345,424.65

1117 · BOKF, Escrow, Kyle Series 2020B 26,505,709.08

1118 · BOKF, Escrow, Kyle 2020B-LM68 7,605,315.67

1119 · BOKF, Escrow, SM Series 2020C 33,775,948.53

1120 · BOKF, Escrow, SM 2020C-LM69 9,685,402.01

1121 · BOKF, Escrow, BUDA Series 2020D 4,686,492.77

1122 · BOKF, Escrow, Buda 2020D-LM70 1,365,056.67

Total 1100 · Escrow Accounts 202,339,514.33

Total Checking/Savings 213,882,213.29

Accounts Receivable

1201 · Accounts Receivable, GBRA 731,936.98

Total Accounts Receivable 731,936.98

Total Current Assets 214,614,150.27

Fixed Assets

1405 · Engineering & Construction Cost 2,402,294.20

1420 · Projects in Progress (Cash)

1420-01 · Legal Support 61,957.97

1420-02 · Hydrogeologic Support 172,649.50

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) 409,953.64

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

04/27/21

Accrual Basis

	Mar 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	54,928.12
	901,890.00
Total 1430 · Projects in Progress Eng (Cash)	
1440 · Projects in Prog Eng. (Finance)	
1440-01 · Engineering-Phase 1A Pipeline	539,976.34
1440-02 · Engineering-Phase 1A Pump Stat	748,167.89
1440-03 · Engineering-ROW Acquisition	409,590.45
1440-04 · Phase 1A Const Observation	738,182.16
1440-05 · Phase 1A-Construction Trailer	53,493.57
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	7,358,102.82
1440-16 · Phase 1B-Owners Rep	7,619,517.37
1440-17 · Phase 1B Environmental	2,466,444.82
1440-18 · Phase 1B Segment A Design	2,576,806.33
1440-19 · Phase 1B Segment B Design	2,344,656.84
1440-20 · Phase 1B Segment C Design	2,061,984.31
1440-21 · Phase 1B Segment D Design	1,866,307.56
1440-22 · Phase 1B Segment E Design	1,397,275.62
1440-23 · Phase 1B Land Attorney	779,829.21
1440-24 · Phase 1B Hydrogeology	343,195.15
1440-25 · Phase 1B WTP Design	4,141,978.76
1440-26 · Raw Water Infr.	1,445,617.00
1440-27 · Phase 1B Program Survey	2,871,408.00
1440-28 · Phase 1B BPS Design	2,441,342.76
1440-29 · GVEC Construction-in-Aid	1,740,143.30
1440-30 · Phase 1B Inline Tanks	81,426.93
1440-31 · Construction Mgmt & Inspection	303,049.59
1440-32 · Phase 1B Construction ARWA Only	1,374,175.00
	56,371,312.07
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	61,722,029.16
Other Assets	
1900 · Deferred Outflow	20,688.14
	20,688.14
Total Other Assets	
TOTAL ASSETS	276,356,867.57

Alliance Regional Water Authority

Balance Sheet

As of March 31, 2021

04/27/21

Accrual Basis

Mar 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

3,517.12

Total Credit Cards

3,517.12

Other Current Liabilities

2100 · Payroll Liabilities

27.00

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

7,462.21

2352 · Accrued Int Payable, Kyle 2015B

10,760.94

2353 · Accrued Int Payable, CRWA 2017A

29,195.19

2354 · Accrued Int Payable, Kyle 2017B

26,624.43

2355 · Accrued Int Payable, SM 2017C

21,690.24

2356 · Accrued Int Payable, Buda 2017D

3,084.75

2357 · Accrued Int Payable, CRWA 2019A

68,434.80

2358 · Accrued Int Payable, Kyle 2019B

62,441.43

2359 · Accrued Int Payable, SM 2019C

51,538.14

2360 · Accrued Int Payable, Buda 2019D

7,310.13

2361 · Accrued Int Payable, CRWA 2020A

252,882.60

2362 · Accrued Int Payable, Kyle 2020B

230,603.40

2363 · Accrued Int Payable, SM 2020C

161,253.50

2364 · Accrued Int Payable, Buda 2020D

22,836.60

Total 2350 · Accrued Interest Payable

956,118.36

Total Other Current Liabilities

1,331,098.23

Total Current Liabilities

1,811,978.26

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

246,371,978.26

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

	<u>Mar 31, 21</u>
Equity	
2925 · Net Investment in Capital Asset	19,754,427.98
2950 · Retained Earnings	6,088,578.07
Net Income	4,141,883.26
Total Equity	<u>29,984,889.31</u>
TOTAL LIABILITIES & EQUITY	<u><u>276,356,867.57</u></u>

Alliance Regional Water Authority Profit Loss

For the One Month and Six Months Ended March 31, 2021

	<u>March 2021</u>	<u>October 2020 March 2021</u>
Ordinary Income/Expense		
Income		
4010 · Project Contribution		
4011 · City of San Marcos	1,127,633.76	2,064,945.76
4012 · City of Kyle	0.00	1,424,514.94
4013 · City of Buda	161,256.96	295,552.56
4014 · Canyon Regional Water Authority	0.00	1,588,202.86
4015 · GBRA	683,887.50	3,258,781.59
Total 4010 · Project Contribution	<u>1,972,778.22</u>	<u>8,631,997.71</u>
4200 · Shared Water		
4210 · Shared Water, City of Buda	71,973.96	179,481.96
Total 4200 · Shared Water	<u>71,973.96</u>	<u>179,481.96</u>
4250 · Non Potable Water Sales	3,148.00	19,144.89
4300 · Broadway Interest Income		
4311 · City of San Marcos	54.95	374.98
4312 · City of Kyle	60.00	320.26
4313 · City of Buda	3.79	38.50
4314 · Canyon Regional Water Authority	73.87	369.91
Total 4300 · Broadway Interest Income	<u>192.61</u>	<u>1,103.65</u>
4350 · Escrow Accounts Income		
4351 · BOKF, CRWA Series 2015A	4.59	31.43
4352 · BOKF, Kyle Series 2015B	3.04	20.82
4353 · BOKF, CRWA Series 2017A	4.13	184.04
4354 · BOKF, Kyle Series 2017B	3.72	167.51
4355 · BOKF, SM Series 2017C	5.26	216.84
4356 · BOKF, Buda Series 2017D	0.59	29.01
4357 · BOKF, CRWA Series 2019A	337.70	2,438.39
4358 · BOKF, Kyle Series 2019B	307.96	2,223.71
4359 · BOKF, SM Series 2019C	392.50	2,833.99
4360 · BOKF, Buda Series 2019D	54.53	394.10
4361 · BOKF, CRWA Series 2020A	398.25	1,479.07
4362 · BOKF, CRWA Series 2020A-LM67	114.34	424.65
4363 · BOKF, Kyle Series 2020B	363.16	1,462.09
4364 · BOKF, Kyle Series 2020B-LM68	104.20	273.66
4365 · BOKF, SM Series 2020C	462.77	1,863.03
4366 · BOKF, SM Series 2020C-LM69	132.71	348.51
4367 · BOKF, Buda Series 2020D	64.21	258.81
4368 · BOKF, Buda Series 2020D-LM70	18.70	49.13
Total 4350 · Escrow Accounts Income	<u>2,772.36</u>	<u>14,698.79</u>
4370 · TexStar Interest Income		
4371 · City of San Marcos	51.48	402.94
4372 · City of Kyle	40.44	316.54
4373 · City of Buda	7.29	57.07
4374 · Canyon Regional Water Authority	44.34	347.09
Total 4370 · TexStar Interest Income	<u>143.55</u>	<u>1,123.64</u>
Total Income	<u>2,051,008.70</u>	<u>8,847,550.64</u>

Alliance Regional Water Authority Profit Loss

For the One Month and Six Months Ended March 31, 2021

	<u>March</u> <u>2021</u>	<u>October 2020</u> <u>March 2021</u>
Expenses		
6000 · Groundwater Reservation Costs	287,049.86	745,076.62
6010 · Shared Water Costs		
6015 · Shared Water, City of Kyle	24,020.37	119,371.84
6020 · Shared Water, City of San Marcos	14,265.96	70,125.96
Total 6010 · Shared Water Costs	38,286.33	189,497.80
6200 · Plant Operations & Maintenance	438.52	10,640.66
7125 · Auditing fees	10,930.00	10,930.00
7210 · Bank Fees	376.47	1,791.82
7220 · Escrow and Paying Agent Fees	0.00	3,150.00
7240 · Bond Issue Costs		
7240-11 · Bond Issue Costs - CRWA 2020A	0.00	454,791.00
7240-12 · Bond Issue Costs - Kyle 2020B	0.00	420,361.00
7240-13 · Bond Issue Costs - SM 2020C	0.00	495,511.00
7240-14 · Bond Issue Costs - Buda 2020D	0.00	173,408.50
Total 7240 · Bond Issue Costs	0.00	1,544,071.50
7250 · Interest Expense		
7250-51 · Interest Expense - CRWA 2015A	4,921.50	30,328.58
7250-52 · Interest Expense - Kyle 2015B	7,173.96	43,043.75
7250-53 · Interest Expense - CRWA 2017A	19,463.46	116,780.75
7250-54 · Interest Expense - Kyle 2017B	17,749.62	106,497.75
7250-55 · Interest Expense - SM 2017C	14,460.16	86,761.00
7250-56 · Interest Expense - Buda 2017D	2,056.50	12,339.00
7250-57 · Interest Expense - CRWA 2019A	45,623.20	273,739.25
7250-58 · Interest Expense - Kyle 2019B	41,627.62	249,765.75
7250-59 · Interest Expense - SM 2019C	34,358.76	206,152.50
7250-60 · Interest Expense - Buda 2019D	4,873.42	29,240.50
7250-61 · Interest Expense - CRWA 2020A	101,153.04	252,882.60
7250-62 · Interest Expense - Kyle 2020B	92,241.36	230,603.40
7250-63 · Interest Expense - SM 2020C	64,501.40	161,253.50
7250-64 · Interest Expense - Buda 2020D	9,134.64	22,836.60
Total 7250 · Interest Expense	459,338.64	1,822,224.93
7325 · Dues	0.00	7,655.00
7350 · Insurance - Liability, E&O	0.00	2,422.98
7400 · Legal Fees	4,479.00	26,899.50
7410 · Newspaper Public Notices	644.70	1,244.70
7425 · Contract Services-Lobbyist	6,000.00	36,000.00
7430 · Agency Mgmt Public Relations	7,660.18	18,028.43
7440 · Region L Contributions	0.00	484.53
7450 · Permit & Fees	0.00	74,454.43
7500 · Supplies	586.51	8,060.79
7600 · Telephone, Telecommunications	88.36	529.95
7700 · Travel, Conferences & Meetings	0.00	646.28

**Alliance Regional Water Authority
Profit Loss**

For the One Month and Six Months Ended March 31, 2021

	<u>March 2021</u>	<u>October 2020 March 2021</u>
7800 · Employee Expenses		
7810 · Salaries and wages	24,298.30	157,394.95
7820 · Auto Allowance	969.24	6,300.06
7821 · Phone Allowance	207.70	1,350.05
7830 · Payroll taxes	1,918.94	10,217.92
7840 · Employee Insurance	2,507.04	14,723.64
7850 · Retirement	1,737.42	11,307.09
7860 · Licenses & Permits	50.00	563.75
Total 7800 · Employee Expenses	<u>31,688.64</u>	<u>201,293.71</u>
Total Expenses	<u>847,567.21</u>	<u>4,705,667.38</u>
Net Ordinary Income	<u>1,203,441.49</u>	<u>4,141,883.26</u>
Net Income	<u><u>1,203,441.49</u></u>	<u><u>4,141,883.26</u></u>

Alliance Regional Water Authority
Chase VISA Credit Card Transactions
 March 31, 2021

Type	Date	Name	Split	Amount	Balance
2006 · Chase Bank VISA Card					2,664.79
Credit Card Charge	03/01/2021	Stamps Com	7500 · Supplies	18.17	2,682.96
Credit Card Charge	03/02/2021	Verizon	7600 · Telephone, Telec...	88.36	2,771.32
Credit Card Charge	03/02/2021	TXST Testing Center	7860 · Licenses & Permits	50.00	2,821.32
Credit Card Charge	03/03/2021	Home Depot	7500 · Supplies	69.82	2,891.14
Credit Card Charge	03/04/2021	Walmart	7500 · Supplies	23.47	2,914.61
Credit Card Charge	03/04/2021	McCoys	7500 · Supplies	14.17	2,928.78
Credit Card Charge	03/10/2021	Rackspace	7500 · Supplies	203.25	3,132.03
Credit Card Charge	03/11/2021	UPS Store	7500 · Supplies	18.00	3,150.03
Credit Card Charge	03/13/2021	USPS	7500 · Supplies	50.00	3,200.03
Credit Card Charge	03/17/2021	Williams Scotsman	1440-05 · Phase 1A-Con...	598.45	3,798.48
Credit Card Charge	03/17/2021	United Site Service	1440-05 · Phase 1A-Con...	511.30	4,309.78
Credit Card Charge	03/17/2021	UPS Store	7500 · Supplies	18.00	4,327.78
Credit Card Charge	03/17/2021	Rackspace	7500 · Supplies	107.63	4,435.41
Check	03/17/2021	Chase	1005 · Broadway Checki...	-2,065.51	2,369.90
Credit Card Charge	03/18/2021	Pedernales Electric	6200 · Plant Operations ...	300.00	2,669.90
Credit Card Charge	03/21/2021	Amtek Information	7410 · Newspaper Public...	199.98	2,869.88
Credit Card Charge	03/22/2021	Pedernales Electric	6200 · Plant Operations ...	138.52	3,008.40
Credit Card Charge	03/22/2021	Lockhart Post Register	7410 · Newspaper Public...	444.72	3,453.12
Credit Card Charge	03/22/2021	Grainger	7500 · Supplies	64.00	3,517.12
Total 2006 · Chase Bank VISA Card				852.33	3,517.12
TOTAL				852.33	3,517.12

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

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 5/12 meeting:

- Received an update on the Phase 1B program (Item I.2).
- Recommended approval of a work order with Walker Partners, Inc. for Construction Administration services associated with the Phase 1B Water Treatment Plant Project. (Item I.3)
- Recommended approval of a work order with LNV, Inc. for Construction Administration services associated with the Phase 1B Raw Water Infrastructure Project. (Item I.4)
- Approved an agreement with Walker Bulldozing and Fencing, LLC to provide internal fencing around the water treatment plant boundary.
- Received an update on the Authority's FY 2021-22 budget (Item I.7).
- Received an update on the 87th legislative session (Item I.8).
- 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, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- 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 May 11th. The GCUWCD Board agreed that they would refund the excess funds from the Monitoring Well Agreement to all contributing parties, which includes Alliance Water, as required in the agreement. These funds are expected to be disbursed in August.

Plum Creek Conservation District (PCCD)

The PCCD met on May 18th. No items were on the agenda that would affect the Authority.

Groundwater Management Area 13

The GMA adopted the draft desired future conditions for all aquifers – they have now been sent to each groundwater district for action and the public hearing process will be triggered. Final approval is anticipated sometime in the summer.

Region L Planning Group

Region L held a meeting on May 6th. There are several vacancies including one for Water Utilities. The group is starting the process for selection of the technical consultant for the next round of planning, the group is expected to make a decision at their August 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, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- 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

June Board Meeting

- The June Board meeting is expected to be a hybrid meeting – with those an in-person option being available in addition to a virtual option.

Blanco Basin Wastewater Study Update

- Staff is working with AECOM to develop a scope and fee for updating the Blanco Basin Wastewater Study. An agreement will be brought back to the Board for possible action sometime in the summer.

Log and Calendar of Events

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

**Executive Director
Log of Activities**

April						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Apr	2-Apr	3-Apr
					Floating Holiday - Good Friday	
4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
	Land Acquisition meeting	Phase 1B Monthly Coordination Mtg	TMLIRP Visit	Weekly ROW Call	Discussion with EAA	
	Water sharing coordination	WTP Pre-Proposal Mtg	Buda PS Operations	WTP Site Visit	GBC Meeting	
	CRWA report		CRWA Delivery Point Discussion	Tech Cmte Agenda	PUC Coordination	
			Discuss Title issues		Legislation review	
11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr
	Land Acquisition meeting	Natural Resources Hearing	PR Groundbreaking Prep	Weekly ROW Call	Project Advisory Cmte mtg	
	CRWA Board Mtg	Discuss land acquisition	Technical Committee	Review Seg C 90% Submittal	Land acquisition coordination	
		GCUWCD Board Mtg				
18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
	Segment C Review mtg	Segment C Team Review Mtg	Coordination mtg with GVEC	Region L Staff Work Group	GMA-13 Meeting	
	Compile review comments	Title Discussion	CM&I WO discussion	Weekly ROW Call	CSP Prep Meeting	
	Buda delivery point coordination	Addendum review	March Financial Info	Legislation review	Board Agenda and Packet Prep	
25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	
	Weekly ROW meeting	Kyle routing review	CRWA Board of Mgrs mtg	Weekly ROW Call	Title discussion	
	Closing coordination	Cybersecurity training	ARWA Board Meeting	FYE 2022 budget discussion	WTP & RWI CA scope & fee review	
	Checks	Segment C & E schedule coord			Land coordination	

May 2021

May 2021							June 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28	29	30			
30	31												

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Apr 25	26	27	28	29	30	May 1
2	3 1:30pm ARWA Phase 1B Weekly Progress 3:00pm Meet with Graham - ARWA	4 9:00am Alliance Water - 2:00pm ARWA1BWTP - 2:30pm ARWA1BWTP - 3:30pm Alliance Water	5 8:45am COVID Shot #2 (ARC-Buda) 10:00am Wegmiller - San Marcos Update	6 9:30am Region L Meeting (Virtual) 11:00am ARWA1B - 12:00pm ARWA1B - Title	7 9:30am Betsy Johnson Call 10:00am GBC Meeting 4:00pm Discuss Cultural	8
9	10 1:30pm ARWA Phase 1B Weekly Progress 6:00pm CRWA Board Meeting (CRWA	11 9:30am Graham & Jason Catch Up (Microsoft 1:00pm Dittmar and 5:30pm GCUWCD Board	12 10:00am PCCD - Schedule Update 3:00pm Technical 4:00pm Tech Cmte	13 11:00am ARWA1B - Weekly ROW Call 1:00pm Contractor 2:30pm Home Refinance	14 9:00am Alliance Regional 9:30am ARWA1BWTP - 12:00pm Contractor	15
16	17 11:30am GBRA-ARWA Lunch (TBD) - R. Brian 1:30pm ARWA Phase 1B 4:00pm ARWA1B - Title	18 9:00am ARWA1BSE 90% Review Work Shop 1:00pm PCCD Meeting 3:30pm Alliance Water	19 10:00am TML Health's 2021 Annual Member 12:00pm Contractor 1:30pm Segment E -	20 3:45am Sharepoint (Microsoft Teams 11:00am ARWA1B - 1:30pm ARWA - HVJ	21 9:00am Project Advisory Committee Meeting (Virtual Meeting) - Graham Moore	22
23	24 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	25 9:30am ARWA WTP Site Visit (Meet Up at Chaparral Coffee & Bodega - 106 E.	26 7:30am ARWA Check in (Dan's Hamburgers - 10:00am CRWA Board of 3:00pm ARWA Board	27 9:30am Alliance Water - Blanco Basin WW 11:00am ARWA1B - 3:00pm Alliance Water -	28 9:30am ARWA and GBRA Release Requests (webex) - Newell, Peter	29
30	31 MEMORIAL DAY HOLIDAY 1:30pm ARWA Phase 1B Weekly Progress	Jun 1	2	3	4	5

June 2021

June 2021							July 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5			1	2	3		
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30				25	26	27	28	29	30	31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
May 30	31	Jun 1 3:30pm Alliance Water Check-in (https://zoom.us/j/92544459235?pwd=cC9YVVZ4eU1IbTBHL3RpTjRoRlZuQT09) -	2 8:00am Alliance Water - Monthly Check-in (Microsoft Teams Meeting; ~TX-SNA-RM-Training Room (Trio)) -	3	4	5
6	7 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	8 5:30pm GCUWCD Board Meeting (GCUWCD Offices)	9 8:30am IRWA Presentation (101 Bowie St (101 Bowie 3:00pm Technical Committee Meeting (TBD))	10 10:00am GoToWebinar - TCDRS Early/Mid-Career Webinar: Envision Your Financial Future (GoToWebinar - See	11 10:00am GBC Meeting	12
13	14 10:00am ACEA - Virtual Presentation (Norris 1:30pm ARWA Phase 1B Weekly Progress 6:00pm CRWA Board Meeting (CRWA	15 1:00pm PCCD Meeting (Lockhart, Texas, United States) 3:30pm Alliance Water Check-in (https://zoom.us/j/92544459235?pwd=cC9YVVZ4eU1IbTBHL3RpTjRoRlZuQT09) -	16 Moore Family Vacay (Lago Vista, Texas, United States) - katiebellmoore@gmail.com PTO	17	18 9:00am Project Advisory Committee Meeting (Virtual Meeting) - Graham Moore	19
20	21 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	22	23 10:00am CRWA Board of Managers Meeting (CRWA Offices) 3:00pm ARWA Board Meeting (TBD) - Graham Moore	24	25	26
27	28 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	29 3:30pm Alliance Water Check-in (https://zoom.us/j/92544459235?pwd=cC9YVVZ4eU1IbTBHL3RpTjRoRlZuQT09) -	30	Jul 1	2	3

July 2021

July 2021							August 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	4	5	6	7	8	9	1	2	3	4	5	6	7
11	12	13	14	15	16	17	8	9	10	11	12	13	14
18	19	20	21	22	23	24	15	16	17	18	19	20	21
25	26	27	28	29	30	31	22	23	24	25	26	27	28
							29	30	31				

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Jun 27	28	29	30	Jul 1	2	3
4	5 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	6 9:00am Alliance Water - Monthly Check-in (Microsoft Teams) 2:00pm WTP & RWI Bid Opening (Microsoft Teams Meeting) -	7	8	9	10
11	12 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - 6:00pm CRWA Board Meeting (CRWA Offices (850 Lakeside	13 3:30pm Alliance Water Check-in (https://zoom.us/j/92544459235?pwd=cC9YVZ4eU1IbTBHL3RpTjRoRlZuQT09) -	14 3:00pm Technical Committee Meeting (TBD)	15 10:00am AWWA/WEAT San Antonio Presentation (TBD)	16 9:00am Project Advisory Committee Meeting (Virtual Meeting) - Graham Moore	17
18	19 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	20 1:00pm PCCD Meeting (Lockhart, Texas, United States)	21	22	23	24
	PTO - Vacation					
25	26 1:30pm ARWA Phase 1B Weekly Progress Meetings (WEBEX) - Shore, Nichola	27 3:30pm Alliance Water Check-in (https://zoom.us/j/92544459235?pwd=cC9YVZ4eU1IbTBHL3RpTjRoRlZuQT09) -	28 10:00am CRWA Board of Managers Meeting (CRWA Offices) 3:00pm ARWA Board Meeting (TBD) - Graham Moore	29	30	31

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.1 Consider adoption of Resolution 2021-05-26-001 awarding a construction contract to Archer Western Construction, LLC. for the Phase 1B Raw Water Infrastructure and Water Treatment Plant 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 Raw Water Infrastructure and Water Treatment Plant Project starting in March with proposals submitted on May 4, 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 equipping the Authority's four Carrizo wells including installation of the raw water pipelines, the construction of the entirety of the water treatment plant, approximately 3,500 linear feet of the finished water pipeline from the treatment plant to the property line and the expansion of Wolf Run Road to the plant entrance.

The bid was setup with the water treatment plant as a lump sum with several allowances for furnishings and then a separate lump sum for the raw water infrastructure. Additive alternatives were provided for a carbon dioxide system and then six different options were considered for the finished water pipeline, to consider 42-inch and 48-inch pipelines in three different pipe materials: ductile iron, steel pipe, bar wrapped steel cylinder pipe.

A total of five 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. Archer Western Construction was the lowest bidder and also scored the best when all criteria were considered.

As the design engineer, Walker Partners, LLC has recommended the project be awarded to Archer Western Construction – the letter will be sent separately.

Staff is recommending that the carbon dioxide system alternative be added to the award. The Staff and GBRA are considering whether to recommend authorization of the 42-inch or 48-inch pipeline. More information including cost splits between Alliance Water and GBRA will be provided prior to the meeting.

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

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

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.

Attachment(s)

- RWI and WTP Bid Award Recommendation Presentation
- Resolution 2021-05-26-001
- Walker Partners Award Recommendation Letter
- GBRA Letter Requesting to Pay for Oversizing of Treated Water Pipeline
- Review Committee Combined Scoring Sheet

Board Decision(s) Needed:

- Adoption of Resolution 2021-05-26-001 awarding a construction contract to Archer Western Construction, Inc. for the Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, contingent upon approval of the award by the Texas Water Development Board.

**Alliance Regional Water Authority
Raw Water Infrastructure and Groundwater Treatment Plant**

Bid Award Recommendation

May 26, 2021



1

**Meeting
Agenda**

- Summary of Proposals Received
- Alternative Bid Items
- Summary of Equipment Suppliers
- Criteria for Selection
- Summary of References
- Review Team Total Combined Score
- Recommendation



2

Summary of Proposals Received

Proposal Price	Proposal Company				
	Garney	MWH Construction	Flintco Industrial	Archer Western	PLW Waterworks
Base Bid	\$57,167,000.00	\$56,308,223.00	\$63,396,100.00	\$51,939,000.00	\$62,997,000.00
A-1	\$2,988,366.72	\$2,570,000.00	\$2,106,300.00	\$1,651,164.00	\$2,660,000.00
A-2	\$3,405,072.24	\$3,150,000.00	\$2,578,900.00	\$2,174,706.00	\$3,186,000.00
A-3	\$2,597,480.00	\$1,590,000.00	\$2,043,100.00	\$1,701,732.00	\$2,138,000.00
A-4	\$2,870,341.90	\$1,875,000.00	\$2,498,400.00	\$1,958,675.00	\$2,451,000.00
A-5	\$2,552,042.30	\$1,700,000.00	\$2,107,300.00	\$1,656,498.00	\$2,122,000.00
A-6	\$2,895,313.00	\$2,100,000.00	\$2,483,800.00	\$2,040,679.00	\$2,551,000.00
A-7	\$615,000.00	\$600,000.00	\$784,900.00	\$452,000.00	\$741,000.00



Alternative Bid Item's

- **A-1** – HSPS Discharge Pipeline: 42-inch Ductile Iron
- **A-2** – HSPS Discharge Pipeline: 48-inch Ductile Iron
- **A-3** – HSPS Discharge Pipeline: 42-inch Steel
- **A-4** – HSPS Discharge Pipeline: 48-inch Steel
- **A-5** – HSPS Discharge Pipeline: 42-inch Bar-Wrap C303 CSC
- **A-6** – HSPS Discharge Pipeline: 48-inch Bar-Wrap C303 CSC
- **A-7** – CO2 Feed System including structural, mechanical, and associated electrical & I&C shown on drawings SB-5, SB-6, MB-3, MB-4, MB-5, EB-3, IB-3, IX-13



Summary of Equipment Suppliers

Equipment Type	Manufacturer				
	Garney	MWH Construction	Flintco Industrial	Archer Western	PLW Waterworks
Well Pumps	National Pump	National	National Pump	Flowserve	National Pump Company
Pre-Stressed Concrete Tanks	Preload	DN Tanks	DN Tank	DN Tank	DN Tanks
CO2 System	Tomco	Tomco 2	Re-Min	Tomco	TOMCO2
Lime System	Chemco	Chemco	Cal-Flow	Chemco	Burnett, Inc
Filters	Westech	Westech	Westech	Wes Tech	WesTech
High Service Pumps	National Pump	National	ITT Gould	Flowserve	National Pump Company
Switchgear	ABB	ABB	ABB	ABB	ABB
Generator	Cummings	Cummins	Cummins	Cummins	Cummins
Hydropneumatic Tank and Control Package	PulSCO	PulSCO	PulSCO	PunSCO	PulSCO
Pre-Engineered Metal Buildings	Red Dot	Speed Fab Crete	NuCor	Alliance/Star	Alliance
HVAC Equipment	Carrier	Carrier	Greenheck & Daikin	Greenheck, Marvair, Carrier, Indeco	Carrier
Motor Operated Control Valves (>20-inches)	Dezurik	Dezurik	Dezurik	Pratt	Rotork/Dezurik
Valve Actuators (>20-inch Valves)	Rotork	Rotork	Roturk	Alma	Rotork/Dezurik
Electromagnetic Flow Meters	E&H	Endress Hauser	Endress Hauser	Endress Hauser	Endress Hauser



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)



Summary of References

- Top 3 Proposals were selected for reference checks.
- The following are notes from the outcome of the reference checks:
 - Garney
 - Generally high scores some concerns noted against them for claims and litigations but very professional and a high attention to safety.
 - MWH Construction
 - Generally high scores with some concerns as it relates to schedule and management of subcontractors.
 - Archer Western
 - High scores for all categories including positive comments related to treatment plant work and future opportunities.



Review Team Total Combined Score

Criteria	Garney	MWH Construction	Flintco Industrial	Archer Western	PLW Waterworks
Proposal Price (200 Points)	151.8	162.0	113.8	200	121.3
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (100 Points)	92.0	71.0	77.0	89.0	89.0
Key Personnel (75 Points)	69.0	54.0	55.0	66.0	52.0
Project Approach (75 Points)	64.0	65.5	65.0	52.0	64.5
Safety Record (25 Points)	21.5	16.5	23.0	22.5	17.0
Historically Underutilized Business (HUB) Program Compliance Plan (25 Points)	22.6	22.6	22.6	17.9	22.0
Total (500 Points Possible)	420.9	391.6	356.4	447.4	365.8



ARWA-GBRA WTP & RWI Cost Split

Proposal Item	Cost Split				
	Archer Western	ARWA (%)	GBRA (%)	ARWA Cost	GBRA Cost
WTP Items	\$45,681,900	40.64	59.36	\$18,564,917	\$27,116,983
RWI Items	\$6,257,100	100.00	0.00	\$6,257,100	\$0
A-7	\$452,000	42.33	57.67	\$191,332	\$260,668
Sub-Total	\$52,391,000			\$25,013,348	\$27,377,652
A-1 (42")	\$1,651,164	59.00	41.00	\$974,187	\$676,977
TOTAL	\$54,042,164			\$25,987,535	\$28,054,629
A-4 (48") ARWA Option	\$1,958,675	70.70	29.30	\$1,384,783	\$573,892
TOTAL	\$54,042,164			\$26,398,132	\$27,951,543
A-4 (48") GBRA Option	\$1,958,675	42.27	57.73	\$827,932	\$1,130,743
TOTAL	\$54,042,164			\$25,841,280	\$28,508,395

- ARWA Budget for WTP & RWI Construction = \$25,887,000



ARWA-GBRA Segment A Potential Cost Split

	Proposal Item	Cost Split				
		Estimate	ARWA (%)	GBRA (%)	ARWA Cost	GBRA Cost
42"	Construction (A1)	\$35,730,616	59.0	41.0	\$21,092,082	\$14,638,534
	Construction (A2)	\$2,512,578	64.3	35.7	\$1,615,573	\$897,005
	TOTAL	\$38,243,194			\$22,707,655	\$15,535,539
48" (ARWA)	Construction (A1)	\$39,824,681	70.7	29.3	\$28,141,100	\$11,683,582
	Construction (A2)	\$2,800,473	75.1	24.9	\$2,102,231	\$698,241
	TOTAL	\$42,625,154			\$30,243,331	\$12,381,823
48" (GBRA)	Construction (A1)	\$39,824,681	42.3	57.7	\$16,834,408	\$22,990,273
	Construction (A2)	\$2,800,473	44.9	55.1	\$1,257,585	\$1,542,888
	TOTAL	\$42,625,154			\$18,091,993	\$24,533,161



Recommendation

- It is the recommendation that **Archer Western** be selected as the General Contractor for the Alliance Regional Water Authority Raw Water Infrastructure and Groundwater Treatment Plant.
- Award Bid Alternative No. 7 for the Carbon Dioxide system.
- Award Bid Alternative No. 4 for 48” steel finished water pipeline, with GBRA paying for the oversize and receiving the related extra capacity.





ALLIANCE WATER

RESOLUTION NO. 20210526-001

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS AWARDING A CONTRACT TO ARCHER WESTERN CONSTRUCTION, LLC FOR THE PHASE 1B RAW WATER INFRASTRUCTURE AND WATER TREATMENT PLANT 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 Raw Water Infrastructure and Water Treatment Plant 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 seven Add Alternate Proposal Items, six of which provide options in size and materials for the High-Service Pump Station Discharge Line and the seventh is for a Carbon Dioxide Feed system.

4. Alliance Water received five proposals for the Project which were reviewed and scored by a committee that determined the proposal from Archer Western Construction, LLC ("Archer Western") provides the best value to Alliance Water.

5. Walker Partners, LLC, the design engineer for the Project, and the Project Advisory Committee formed between Alliance Water and GBRA both recommend that Alliance Water award a contract to Archer Western 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 Archer Western Construction, LLC for the Phase 1B Raw Water Infrastructure Project in the Base Proposal Amount of \$51,939,000.00 along with Add Alternate A-4 and A-7 in the

Resolution 20200526-001
Phase 1B Water Treatment Plant and Raw Water Infrastructure Project Contract
Award

amounts of \$1,958,675 and \$452,000, respectively, for a total award amount of \$54,349,675, 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: May 26, 2021

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

May 24, 2021

Alliance Regional Water Authority
630 E. Hopkins
San Marcos, TX 78666

Attn: Graham Moore, P.E.
Executive Director

Re: Alliance Regional Water Authority Phase 1B Raw Water Infrastructure and Water Treatment Plant Project – Contractor Award Recommendation

Dear Mr. Moore:

On May 4, 2020, the Alliance Regional Water Authority (ARWA) received construction proposals for the above referenced project. Five competitive proposals were submitted with the following base offers:

1. Garney Companies, Inc.	\$57,167,000.00
2. MWH Constructors, Inc.	\$56,308,223.00
3. Flintco, LLC	\$63,396,100.00
4. Archer Western Construction, LLC	\$51,939,000.00
5. PLW Waterworks, LLC	\$62,997,000.00

All of the proposals contained the required information. Based on the proposal tabulation, Archer Western Construction, LLC of Irving, Texas is the low offeror with a base proposal offer of \$51,939,000.00.

The ARWA assigned the proposal review process to a team of qualified reviewers to carefully evaluate each of the proposals received and assess each of the offerors' quality, reputation, and ability to complete similar projects on schedule and within budget. A thorough review of key personnel, including each major sub-contractor was also completed. Lastly, a review of each offerors' project approach, team safety record, and historically underutilized compliance program and plan was performed. Walker Partners contacted proposers' references and reported the references feedback to the review team.

A scoring matrix as described in the Instructions to Offerors has been followed to compare the proposals. The following is a summary of this team's evaluation of the proposals.

Phase 1B Raw Water Infrastructure & Water Treatment Plant Project Proposals

Review Criteria	Garney	MWH Construction	Flintco Industrial	Archer Western	PLW Waterworks
Proposal Price - The lowest responsible Offeror's Proposal Price determines the baseline. All other Offeror's Proposal Price will be awarded points accordingly (200 Points)	151.8	162	113.8	200	121.3
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (100 Points)	92	71	77	89	89
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. (75 Points)	69	54	55	66	52
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. (75 Points)	64	65.5	65	52	64.5
Safety Record (25 Points)	21.5	16.5	23	22.5	17
Historically Underutilized Business (HUB) Program Compliance Plan (25 Points)	22.6	22.6	22.6	17.9	22
Total (500 Points Possible)	420.9	391.6	356.4	447.4	365.8
RANK	2	3	5	1	4

Archer Western is the best ranked. Many of the Alliance program team members have experience working with Archer Western, either through work performed for many of the Alliance members or for team consultants. Walker Partners also has direct experience working with Archer Western on previous projects, including the Buda and San Marcos wastewater treatment facilities and the City of Waco's dissolved air flotation wastewater treatment plant and Riverside water treatment plant high service pump station.

Walker Partners recommends the Alliance Regional Water Authority award this project to Archer Western, based upon the favorable reference responses received, qualifications, previous work experience and completeness of the proposal package.

This proposal had several additive alternatives, ARWA will need to determine which alternative(s) they want to include in the award and eventually in the contract with Archer Western.

Sincerely,



Joseph W. Jenkins, P.E.
Project Manager

BDC:bdc

Cc: Project File

May 25, 2021

Mr. Graham Moore, P.E., Executive Director
Alliance Regional Water Authority
1040 Highway 123
San Marcos, Texas 78666

Re: Carrizo Aquifer Water Supply, Treatment, and Transmission System Project
Raw Water Infrastructure and Water Treatment Plant Phase 1B (Project No. 3-00708.01)
Construction Contract

Dear Mr. Moore,

GBRA would like to request that the alternate bid item A-4 of a 48-inch Steel HSPS Discharge Pipeline be accepted and included in the Raw Water Infrastructure and Water Treatment Plant Phase 1B (Project No. 3-00708.01) construction contract. This would increase the capacity for GBRA in that pipeline segment for which GBRA would be responsible for its cost allocation of that capacity 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

Phase 1B Raw Water Infrastructure & Water Treatment Plant Project Proposals

Review Criteria	Garney	MWH Construction	Flintco Industrial	Archer Western	PLW Waterworks
Proposal Price - The lowest responsible Offeror's Proposal Price determines the baseline. All other Offeror's Proposal Price will be awarded points accordingly (200 Points)	151.8	162	113.8	200	121.3
Quality, Reputation, and Ability to Complete Similar Projects on Schedule and Within Budget (100 Points)	92	71	77	89	89
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. (75 Points)	69	54	55	66	52
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. (75 Points)	64	65.5	65	52	64.5
Safety Record (25 Points)	21.5	16.5	23	22.5	17
Historically Underutilized Business (HUB) Program Compliance Plan (25 Points)	22.6	22.6	22.6	17.9	22
Total (500 Points Possible)	420.9	391.6	356.4	447.4	365.8
RANK	2	3	5	1	4

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.2** 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 – May 26, 2021
- Kimley-Horn Monthly Summary of Activities for April 2021

Board Decision(s) Needed:

- None.



Phase 1B Program Update

Board of Directors Meeting
May 26, 2021



PRESENTED BY **Kimley»Horn**
Greater Vision. Experience Matters.

Ongoing Progress

► Design Milestone Review

- Design Submittals
 - Pipeline Segment E (90%) – May
- TWDB Reviews
 - Segment A
 - Booster Pump Station
- TCEQ Reviews
 - Booster Pump Station



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	8	8	31
B	52	0	0	0	0	33	33	19
D	56	0	0	9	9	30	39	17
C	79	41	22	0	63	10	73	6
E	37	8	8	2	18	16	34	3
Well Field	20	17	0	3	20	0	20	0
Total	283						207	76



Well Drilling Construction Progress

- ▶ Actual Progress (last 30 days)
 - Sites No. 8 and 9
 - Finalizing Wells
 - Site No. 7
 - Well Efficiency Met
 - Site No. 6
 - Well Efficiency Issues
- ▶ Anticipated Progress (next 30 days)
 - Site No. 6
 - Continued Development, Testing, and Sampling (pump testing this week)
 - Site No. 7
 - Obtain Sample Lab Results
 - Finalize Well





Budget Update

COST UPDATES BASED ON APRIL MILESTONE SUBMITTALS

	Construction Package	ORIGINAL (FEB. 2019) ARWA Total Projected Cost	REVISED ARWA Total Projected Cost	DIFFERENCE
Submittal (%) Combined Program Infrastructure				
100	Water Treatment Plant	\$ 25,200,000	\$ 28,900,000	\$ 3,700,000
100	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 12,200,000	\$ 100,000
30	Inline EST (South)	\$ 3,600,000	\$ 3,600,000	\$ 0
100	Pipeline Segment A	\$ 27,200,000	\$ 26,000,000	(\$ 1,200,000)
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
60	Pipeline Segment E	\$ 9,500,000	\$ 9,200,000	(\$ 300,000)
	Subtotal	\$141,000,000	\$150,000,000	\$ 9,000,000
ARWA-Only Infrastructure				
Const.	Well Drilling	\$ 3,800,000	\$ 3,100,000	(\$ 700,000)
100	Raw Water Infrastructure	\$ 7,000,000	\$ 10,200,000	\$ 3,200,000
100	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 5,500,000	(\$ 2,200,000)
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)
60	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 10,100,000	\$ 3,400,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$102,200,000	\$ 2,800,000
	Total	\$240,400,000	\$252,200,000	\$11,800,000

APRIL 2021 UPDATE

CHANGE FROM
MARCH UPDATE = \$0

NO CHANGE



Consulting Services

Construction Phase Services

- ▶ Construction Phase Services Template
- ▶ Projects on this Agenda:
 - Water Treatment Plant
 - Raw Water Infrastructure
- ▶ Projects Upcoming:
 - Pipeline Segment A
 - Booster Pump Station



Water Treatment Plant

- ▶ 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



Water Treatment Plant

- ▶ Construction Phase Services (Hourly not to Exceed)
- ▶ Supplemental Services Scope to Include:
 - Start-up and Commissioning Assistance
 - Specialty Observations
 - Additional Meetings / Site Visits
 - Surge / Transient Start-up Support
- ▶ Basic Services Fee = \$1,215,171.00
- ▶ Supplemental Services Fee = \$423,036.00



Raw Water Infrastructure

- ▶ 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



Raw Water Infrastructure

- ▶ Construction Phase Services (Hourly not to Exceed)
- ▶ Supplemental Services Scope to Include:
 - Start-up and Commissioning Assistance
 - Specialty Observations
 - Additional Meetings / Site Visits
 - SCADA Programming Coordination
- ▶ Basic Services Fee = \$210,345.00
- ▶ Supplemental Services Fee = \$136,965.00





Questions?





Invoice for Professional Services

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: 068706604-0421
 Invoice Date: Apr 30, 2021
 Invoice Amount: \$ 242,315.01
 Project No: 068706604
 Project Name: ARWA PROGRAM YEAR 4
 Project Manager: SOWA, RYAN

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

Invoice Duration: April 1, 2021 to April 30, 2021

Federal Tax Id: 56-0885615

COST PLUS MAX

KHA Ref # 068706604.3-18705096

Description	Contract Value	Amount Billed to Date	Previous Amount Billed	Current Amount Due
PROGRAM MANAGEMENT PLAN UPDATES	32,262.00	1,416.20	243.10	1,173.10
STAKEHOLDER COORDINATION	279,683.00	36,833.65	15,108.60	21,725.05
BUDGETING	110,861.00	19,439.05	277.50	19,161.55
SCHEDULE	81,192.00	10,663.40	1,650.00	9,013.40
REPORTING	47,110.00	9,115.00	2,382.50	6,732.50
DATA MANAGEMENT	91,576.00	10,813.00	3,922.50	6,890.50
ENVIRONMENTAL MANAGEMENT	84,390.00	13,183.50	1,375.00	11,808.50
LAND ACQUISITION MANAGEMENT	509,587.00	104,030.25	48,037.13	55,993.11
TWDB MANAGEMENT	83,558.00	6,523.00	275.00	6,248.00
DESIGN STANDARDS	84,403.00	23,855.00	18,840.00	5,015.00
ENGINEERING DESIGN MANAGEMENT	361,276.00	90,853.25	32,987.50	57,865.75
QUALITY ASSURANCE	17,966.00	3,382.50	1,032.50	2,350.00
ELECTRICAL POWER PLANNING	51,073.00	4,228.13	0.00	4,228.13
PERMIT COORDINATION/TRACKING	50,094.00	7,747.50	735.00	7,012.50
PROCUREMENT AND CONSTRUCTION PHASE SERVICES	408,057.00	3,250.00	0.00	3,250.00
PROJECT ADMINISTRATION	52,870.00	8,468.23	4,563.30	3,904.93
OTHER SERVICES	78,995.00	19,943.00	0.00	19,943.00
ENVIRONMENTAL CONSTRUCTION PHASE SERVICES	260,480.00	40,777.13	40,777.13	0.00
Subtotal	2,685,433.00	414,521.78	172,206.76	242,315.01
Total COST PLUS MAX				242,315.01

Total Invoice: \$ 242,315.01

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

May 21, 2021

Project Monthly Summary

April 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
 - 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
 - Finalized review of the Segment B Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
 - Finalized review of the Segment D Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
 - 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 the Front End Documents based on comments received during WTP/RWI Advertising.
 - Revised and distributed the Pipeline Construction Standards based on comments received during WTP/RWI Advertising.
 - Revised the Cathodic Protection Program Standards based on comments received during WTP/RWI Advertising.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continued coordination with Design Consultant for final design and preparation for bidding.
 - Segment B
 - Continued coordination with Design Consultant for final design and preparation for bidding.
 - Segment C
 - Finalized review of the Segment C 90% design submittal prepared by the Design Consultant.
 - Attended the Segment C 90% Design Workshop.

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

- Continued coordination with Design Consultant for final design.
 - 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.
 - Segment E
 - Began review of the Segment E 90% design submittal prepared by the Design Consultant.
 - 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 final design and procurement development.
 - Water Treatment Plant:
 - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for final design and procurement development.
 - Booster Pump Station:
 - Coordinated with Design Consultant for final design.
 - Inline Elevated Storage Tanks:
 - 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.

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

- 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
 - Coordinated with WTP and RWI Design Consultants during the procurement phase.
 - Prepared for and attended WTP/RWI Pre-Proposal Meeting and Site Visit.
 - Collected and distributed questions received from the WTP/RWI Advertisement.
 - Administratively prepared and reviewed Addenda.
- Task 16 – Other Services
 - Continued addressing ARWA’s comments to finalize the additional solar analysis and memo.
 - Commissioning Planning
 - Continued evaluation of the Phase 1B infrastructure commissioning and prepared a commissioning presentation update for ARWA’s review.

May 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 the monthly Budget Update for the June 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
 - Prepare the quarterly Schedule Update for the June Board meeting.

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

- 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.
 - Coordinate 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 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

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

- 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 Front End Documents based on comments received during WTP/RWI Advertising.
 - Revise and distribute the Pipeline Construction Standards based on comments received during WTP/RWI Advertising.
 - Revise and distribute the Cathodic Protection Program Standards based on comments received during WTP/RWI Advertising.
- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for final design.
 - Segment B
 - Continue coordination with Design Consultant regarding for final design.
 - 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.
 - Segment E
 - Finalize review of the Segment E 90% design submittal prepared by the Design Consultant.
 - Attend the Segment E 90% Design Workshop.
 - 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 final design and advertisement development.
 - Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.

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

- Continued coordination with Design Consultant for final design and advertisement development.
 - Booster Pump Station:
 - Coordination with Design Consultant for final design and advertisement development.
 - Inline Elevated Storage Tanks:
 - Coordination with Design Consultant for 60% 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.
- 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 WTP and RWI Design Consultants during the procurement phase.
 - Prepare for and attend WTP/RWI Bid Opening and distribute proposals to review team.
- 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.

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

Outstanding Issues/Concerns:

None at this time.

HUB Participation:

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

50.9% to date of Billing

Design Consultant Certifications: N/A

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	15.5%	\$26,549.50	\$-
CP&Y, Inc.	ABE; MBE	Program Standards, Compliance, and Project Management	\$926,211.00	8.5%	\$79,100.00	\$-
Grubb Engineering, Inc.	ESBE; SBE; WBE	Electrical Power Planning	\$44,200.00	9.0%	\$3,970.41	\$-
Spitzer and Associates, Inc.	SBE; WBE	Land Acquisition Management	\$446,290.00	18.1%	\$80,742.49	\$37,064.66
V&A Consulting Engineers, Inc.	SBE; HABE; MBE	Cathodic Protection Standards	\$22,015.00	0.0%	\$-	\$-
		Subtotal	\$1,609,530.00	11.8%	\$190,362.40	\$37,064.66

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.3** Consider adoption of Resolution 2021-05-26-002 approving Work Order #5 with Walker Partners, LLC for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, as recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Alliance Water entered into a Work Order in January 2020 with Walker Partners, LLC. (Walker Partners) to provide final design engineering services for the Phase 1B Water Treatment Plant project. The final design is complete and the construction notice-to-proceed is expected to be issued in July. In order to maintain progress, Staff has negotiated a scope and fee with Walker Partners to provide construction administration and construction engineering services for the Phase 1B Water Treatment Plant project.

Below are some of the key facts regarding the proposal:

Firm: Walker Partners, LLC
Fee: \$1,638,207 (50% ARWA)
Work Order Type: Hourly, Not-to-Exceed
Anticipated Duration: 26 months
Project Manager: Joe Jenkins, P.E.
Key Subconsultants: SKE & Ardurra

Staff is requesting that the Committee recommend Board approval of a Work Order with a fee for the basic services of \$1,215,171 and a fee for supplemental effort in an amount not-to-exceed \$423,036 for a total fee of \$1,638,207. The Executive Director will be given the discretion to authorize the supplemental effort if needed.

Attachment(s)

- Resolution 2021-05-26-002
- Water Treatment Plant Construction Administration and Construction Engineering.

Recommendation(s)

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

Board Decision(s) Needed:

- Adoption of Resolution 2021-05-26-002 approving Work Order #5 with Walker Partners, Inc. for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project.



ALLIANCE WATER

RESOLUTION NO. 20210526-002

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #5 BETWEEN THE AUTHORITY AND WALKER PARTNERS, LLC FOR CONSTRUCTION ADMINISTRATION PHASE SERVICES RELATED TO THE AUTHORITY'S PHASE 1B WATER TREATMENT PLANT PROJECT AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with Walker Partners, LLC ("Walker Partners") for professional engineering services and related matters in September 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 Walker Partners for preliminary design services for the Authority's Phase 1B Water Treatment Plant Project (the "Project") in October 2018. The Authority and Walker Partners entered into a subsequent work order for Final Design and Bidding of the Project in January 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 Walker Partners.

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 Walker Partners is approved to be billed based on actual time and materials in an amount not-to-exceed \$1,215,171.

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, \$423,036. Any supplemental amendments above \$50,000 must be brought to the Authority's Board of Directors for approval.

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

Resolution 20210521-002
Phase 1B WTP Construction Administration

ADOPTED: May 26, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

**Alliance Regional Water Authority Phase 1B Water Treatment Plant
Construction Administration and Construction Engineering
Scope of Services**

1. Project Management
 - 1.1. Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan **(26 invoice packet submissions by Walker Partners (WP) only)**
 - 1.2. Quality Control Audit (one workshop)
 - **WP to prepare for and attend one workshop**
 - **S. Kanetzky Engineering (SKE) four hours preparation for one workshop**
 - **Ardurra four hours preparation for one workshop**
2. Public Utility Coordination
 - 2.1. Guadalupe Valley Electric Cooperative (two one-hour virtual meetings or phone conferences)
 - **WP to have one personnel in attendance for one two-hour meeting with GVEC**
 - **SKE to have one personnel in attendance for one two-hour meeting with GVEC**
 - **Ardurra to have one personnel in attendance for one two-hour meeting with GVEC**
3. Construction Site Visits and Progress Meetings
 - 3.1. Pre-Construction Meetings
 - 3.1.1. Attend a pre-construction meeting coordinated by the Construction Management and Inspection (CM&I) team.
 - **WP to have personnel in attendance for pre-construction meeting**
 - **Ardurra to have personnel in attendance for pre-construction meeting**
 - 3.1.2. Attend a Caldwell County pre-construction meeting for road work on Wolf Run Road (CR156) coordinated by the Construction Management and Inspection (CM&I) team.
 - **WP to have personnel in attendance for pre-construction meeting**
 - 3.2. Monthly Construction Progress Meetings and Site Observations (8-hour day per each)
 - **WP will attend 26 monthly construction progress meetings and perform same-day site observations**
 - **SKE will attend 13 monthly construction progress meetings and perform same-day site observations**
 - **Ardurra will attend 13 monthly construction progress meetings and perform same-day site observations**
 - **Elk – Up to two monthly construction progress meetings will be attended for critical installation milestones of the cathodic protection system based upon the construction schedule.**
 - 3.2.1. 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.
 - 3.2.2. 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.
 - 3.2.3. Review monthly Construction Activity Reports prepared by the CM&I team. Provide feedback on report content as appropriate.
 - 3.2.4. 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 CM&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

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.

- 3.2.5. 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.
- 3.2.6. Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.
4. Construction Coordination
 - 4.1. Regular coordination with Owner's Representative and CM&I group as required to facilitate administration of the project.
 - 4.2. Participate in project quality audits as necessary, and implementation of agreed corrective actions.
 - **WP to attend five meetings related to quality issues during construction**
 - **SKE to attend three meetings related to quality issues during construction**
 - **Ardurra to attend three meetings related to quality issues during construction**
 - 4.3. Utilize EDMS for upload/download of all construction-related documentation.
 - 4.4. Program Engineer SCADA Programming Coordination
 - **WP & SKE to provide review, input, coordination, meeting attendance, and recommendations for SCADA Program Engineer, as required.**
5. Shop Drawing/Submittal Review
 - 5.1. 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 50% resubmittals.
 - **WP to review 100 initial and 50 resubmittal shop drawings/submittals for civil, process mechanical, and coordination with other disciplines, as required**
 - **SKE to review 100 initial and 50 resubmittal shop drawings/submittals for MEP & IC & Process Mechanical Equipment for conformance with original design**
 - **Ardurra to review 50 initial and 25 resubmittal shop drawings/submittals for**

9. Record Drawings
 - 9.1. Consultant will prepare draft and final Contract Record Drawing submittals using the marked up red line 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:
 - 9.1.1. Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request
 - 9.1.2. Prepare Record Drawings of the constructed project based on change order revisions and as built information provided by the contractor.
 - **WP to provide up to 110 record drawings**
 - **SKE to provide up to 110 record drawings**
 - **Ardurra to provide up to 60 record drawings**
 - **ELK will provide one record drawing for the cathodic protection system**
 - 9.1.3. Provide the Owner's Representative with one (1) set of Record Drawings in .pdf and .dwg electronic format.
 - 9.1.4. Provide the Owner's Representative with the DWG file with the reference state plan coordinate system for use by ARWA.
 - **WP to provide**
10. TCEQ CT Study and Corrosion Engineering Report
 - 10.1. WP to provide final CT study with accompanying corrosion engineering report for Program submission to the TCEQ 60 days after receipt of all ARWA and GBRA well water quality pump test data. The engineering report will address any water corrosivity issues and corrosion control treatment required for mitigation. Includes up to two two-hour coordination meetings with the Program and the TCEQ, each. Time and materials includes updated model evaluations based on final water quality obtained from all well pump tests.
11. Supplemental
 - 11.1. Survey Services by WP
 - 11.1.1. **WP to Verify/Reset horizontal and vertical control points for construction purposes**
 - 11.2. General Construction Phase Services, which may include:
 - 11.2.1. Additional site visits
 - **WP to provide up to eight additional site visits**
 - **SKE to provide up to three additional site visits**
 - **Ardurra to provide up to three additional site visits**
 - **Elk to provide up to one additional site visit**
 - 11.2.2. Specialty observations limited to spot checking, selective measurement, and similar methods of general observation for observation of equipment requiring additional observations beyond the monthly observations. This includes pre-stressed concrete tanks, carbon dioxide system, lime system, filters, chemical dosing systems, pumps, solids handling system, and structures. Based on information obtained during specialty observations, Consultant will evaluate whether Contractor's work is in accordance with the Contract Documents, and Consultant will keep Client informed of the 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 CM&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

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.

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. Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.

- **WP will perform five specialty observations**
- **SKE will perform five specialty site observations**
- **Ardurra will perform five specialty observations**
- **ELK will perform up to one specialty one specialty observation to check piping coating quality and defects, up to one specialty observation to observe test station installation, up to one specialty observation to observe pipe joint bonding and coating repair**

11.2.3. Providing services to review or evaluate Contractor claims that are due to causes within the control of Consultant.

- **WP to review or evaluate 3 contractor claims**
- **SKE to review or evaluate 3 contractor claims**
- **Ardurra to review or evaluate 3 contractor claims**

11.3. Attend additional meetings in the vicinity of the project (5 meetings – Assumes 2-hrs each)

- **WP to attend five additional meetings**
- **SKE to attend five additional meetings**
- **Ardurra to attend two additional meetings**

11.4. Factory Performance and Off-Site Tests will be witnessed at the supplier's place of business for the following equipment:

11.4.1. High Service Pumps for a total of three days, including travel time.

- **WP process mechanical engineer to attend for three days, including expenses**

11.4.2. Electrical Control Panels for a total of three days, including travel time.

- **SKE instrumentation and control (IC) engineer to attend for three days, including expenses**

11.5. On-site Witness Testing

11.5.1. IC demonstration tests to be witnessed for a total of three days, including travel time.

All tests will be at the project site.

- **SKE to send IC engineer for three days**

11.5.2. High Service Pump tests to be witnessed all tests at the project site.

- **WP to send Process Mechanical engineer for two days, includes travel time**
- **SKE to send IC engineer for one day, includes travel time**

11.6. Additional Submittals/RFIs/Alternatives and Substitutions

11.6.1. Review of additional submittals, RFIs, and alternatives and substitutions proposed by Contractor.

11.7. Start-up and Commissioning Assistance

11.7.1. Engineering Staff to be on-site and available for providing engineering support to CM&I for start-up and commissioning.

- **WP staff to be on-site for ten days**
- **SKE staff to be on-site for five days**
- **Ardurra staff to be on-site for three days**
- **ELK technician be on-site for two days to observe the cathodic protection rectifier installation, energize the system, and perform “Tap” setting adjustments**

11.8. Substantial/Final Completion Walk-Throughs – Additional Coordination Efforts

11.8.1. Additional effort beyond conducting two substantial and one final completion walk-through(s)/inspection(s), coordinated by the CM&I.

11.9. Corrosion Investigation, Data Collection and Design Support

ELK will provide one engineer and two technicians to identify, catalogue, and document water treatment plant (WTP) facility CP survey test points following Commissioning of the CP system. This will include performing and recording baseline potential measurements at selected test locations prior to permanently energizing the CP system.

11.10. Post Construction Corrosion Services

11.10.1. **ELK will provide two technicians to perform a facility CP survey of previously identified test locations after sufficient time has been allowed for polarization of the protected structures.**

- **WP to provide support and coordination**

11.11. Geotechnical Review of Subsurface and Physical Site Conditions

11.11.1. Geotechnical Review and Construction Services

- **Holt to perform up to two site visits during construction to confirm site conditions are consistent with geotechnical investigation recommendations and to provide any further recommendations as needed.**
- **WP to provide support and coordination**

11.12. Surge/Transient Start-up Support

11.12.1. **Northwest Hydraulic Consultants (NHC) will provide as-needed responses to future WP questions that relate to the procurement and construction of surge control measures for the pump station.**

- **WP to provide support and coordination**

11.12.2. **Procurement and/or construction deviations from the final design of the pump station that could affect the hydraulics of the pump station and pipeline, and the surge control measures will be reviewed by NHC. This may involve NHC reviewing certified pump curves, valve submittals, pipe material submittals, etc., to determine the potential impact of the identified deviations on the transient response of the pipeline project.**

- **WP to provide support and coordination**

11.12.3. **NHC will check the effectiveness of the surge control measures with the procurement and/or construction deviations in place. If necessary, NHC will provide recommendations for additional surge analyses (beyond the scope of this proposal) for re-design of the surge control measures with the procurement and/or construction deviations in place to ensure that the predicted transient pressures and flow rates are within acceptable limits for the pump station and pipeline**

following transient events (e.g., pump power failure and pump start-up).

- **WP to provide support and coordination**

11.12.4. NHC will review surge tank field testing and surge analyses performed by equipment suppliers during construction and commissioning of the pump station to ensure conformity with NHC's recommendations for surge control at the pump station.

- **WP to provide support and coordination**

ASSUMPTIONS

1. Scopes provided assume CM&I or Client Representative will be responsible for logging and tracking of all submittals, RFI's, and COs.
2. CM&I is responsible for reviewing monthly construction pay applications and making recommendations for payment
3. CM&I is responsible for reviewing monthly construction schedules and confirming compliance with Contract dates and key milestones
4. CM&I is responsible for reviewing monthly as-builts provided by Contractor.
5. Effort for pre-submittal workshops/coordination meetings or conference calls are not included.
6. Engineer is not responsible for safety beyond what is covered and required in the Project Management Plan. The engineers and design staff are not responsible for the safety of others.
7. The construction period will last 790 days (26 months) from Notice to Proceed.
8. The Construction phase will follow the recommendations of the Program Project Management Plan dated October 2019.
9. The project will be constructed under one contract.
10. The CM&I will provide a field office structure with furniture for engineering staff during site visits and meetings.
11. The CM&I will be responsible for all regulatory agency coordination and construction permitting.
12. Monthly construction progress meetings/site visits will be attended at the project site.
13. Submittals include shop drawings, O&M submittals, and samples.
14. Plan of operations for startup and operation of the facility will be provided by the CM&I or Client's representative.
15. Operations and Maintenance Manual addressing all new facilities and systems will be provided by the CM&I or Client's representative.
16. Any labor expenses required to address construction claims, unforeseen subsurface considerations, or additional construction requested by the Contractor or Owner will constitute a change of scope and will be additional costs based on a revised labor rate schedule.
17. Claims resolution or litigation assistance requested of the engineer will constitute a change of scope and will be additional costs based on a revised labor rate schedule.
18. Classroom and field training for plant staff is not included in the scope of services.
19. Operations assistance beyond what is specifically provided has not been included in the scope of services.
20. Warranty inspections and facility performance review/inspections have not been included in the scope of services.
21. CM&I is responsible for inspection of septic system installation and coordination with the County inspector.

22. This agreement only includes scope and fee for construction administration and construction engineering services for the WTP portion of the project.
23. The Raw Water Infrastructure project construction administration and engineering scope and fees will be provided via separate agreement.
24. Scope and fee are not included for corrosion study or generation and re-submission of plans for TCEQ approval due to changes in treatment due to outcome of corrosion study and/or engineering report.

Alliance Water Phase 1B Program																		Project Fee Summary (HNTE)		
Water Treatment Plant Consultant Construction Services																				
5/7/2021																				
Detailed Overall Consultant Cost Breakdown																		Basic Effort HNTE \$ 1,215,171 Supplemental HNTE \$ 423,036 Total Effort HNTE \$ 1,638,207		

Task	Project Role	Jenkins	Christensen	Senior Engineer I	Canady/Niemann	Project Engineer II	Yeri/Garza	Todd	Monique	L. Simpson	2-Man Crew	J. Montemayor	WP Total Hours	WP Total Labor Effort	WP Total Expense Effort	Ardurra	Northwest Hydraulic	S. Kanetzky	Holt	Elk	Total Sub Effort	Total Effort	Assumptions
		Manager IV	Senior Engineer II	Senior Engineer I	Project Manager V	Project Engineer II	Project Engineer I (EIT)	CAD Tech X	Support Staff IV	Survey Manager	Survey	Technician V											
Hourly Bill Rate*		\$298.70	\$231.75	\$206.00	\$190.55	\$123.60	\$113.30	\$154.50	\$92.70	\$206.00	\$139.05	\$97.85											
Basic Services																							
Task 1 - Project Management		30	0	0	64	0	16	0	4	0	0	0	114	\$ 23,340	\$ -	\$ 1,120	\$ -	\$ 940	\$ -	\$ -	\$ 2,060	\$ 25,400	
1.1	Prepare Invoice Packets (Summary Reports, Invoices)	26			52								78	\$ 17,675	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,675	
1.2	1 Quality Control Audit	4			12								36	\$ 5,665	\$ -	\$ 1,120	\$ -	\$ 940	\$ -	\$ -	\$ 2,060	\$ 7,725	
Task 2 - Public Utility Coordination		2	0	0	4	0	0	0	2	0	0	0	8	\$ 1,545	\$ -	\$ 430	\$ -	\$ 470	\$ -	\$ -	\$ 900	\$ 2,445	
2.1	Guadalupe Valley Electric Cooperative	2			4								8	\$ 1,545	\$ -	\$ 430	\$ -	\$ 470	\$ -	\$ -	\$ 900	\$ 2,445	
Task 3 - Construction Site Visits and Progress Meetings		114	0	0	220	0	136	0	0	0	0	0	470	\$ 91,381	\$ 1,882	\$ 45,990	\$ -	\$ 31,530	\$ -	\$ 3,844	\$ 81,364	\$ 174,627	
3.1	Pre-Construction Meetings	10			12								38	\$ 7,086	\$ 134	\$ 3,220	\$ -	\$ -	\$ -	\$ -	\$ 3,220	\$ 10,440	Mileage
3.2	Monthly Construction Progress Meetings and Site Observations	104			208								432	\$ 84,295	\$ 1,747	\$ 42,770	\$ -	\$ 31,530	\$ -	\$ 3,844	\$ 78,144	\$ 164,186	Mileage
Task 4 - Construction Coordination		60	1	0	188	0	216	0	8	0	0	0	473	\$ 79,192	\$ 336	\$ 20,570	\$ -	\$ 28,166	\$ -	\$ -	\$ 48,736	\$ 128,264	
4.1	Coordination with Owner's Rep and CM&I Group to Facilitate Project Administration	24			40								104	\$ 19,323	\$ -	\$ 6,050	\$ -	\$ -	\$ -	\$ -	\$ 6,050	\$ 25,373	
4.2	Attend meetings related to quality issues during construction	20			40								100	\$ 18,128	\$ 336	\$ 14,520	\$ -	\$ 5,866	\$ -	\$ -	\$ 20,386	\$ 38,850	Mileage
4.3	Utilize EDMS for upload/download of all construction-related documentation	8			60								148	\$ 22,887	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,887	
4.4	Program Engineer SCADA Programming Coordination	8	1		48								121	\$ 18,854	\$ -	\$ -	\$ 22,300	\$ -	\$ -	\$ -	\$ 22,300	\$ 41,154	
Task 5 - Shop Drawing/Submittal Review		88	16	0	376	0	392	0	80	0	0	0	952	\$ 153,470	\$ -	\$ 79,050	\$ -	\$ 122,040	\$ -	\$ 4,380	\$ 192,810	\$ 337,216	
5.1	Review shop drawings/submittals, provide responses w/in 14 calendar days	80	16		360								896	\$ 144,406	\$ 80	\$ 72,030	\$ -	\$ 116,400	\$ -	\$ 4,380	\$ 192,810	\$ 337,216	
5.2	Evaluation of Alternatives and Substitutions	8			16								56	\$ 9,064	\$ -	\$ 7,020	\$ -	\$ 5,640	\$ -	\$ -	\$ -	\$ -	
Task 6 - Request for Information (RFIs)		40	0	80	120	0	140	0	0	0	0	0	380	\$ 67,156	\$ -	\$ 52,500	\$ -	\$ 68,200	\$ -	\$ 876	\$ 121,576	\$ 188,732	
6.1	Review Contractor RFIs	40		80	120		140						380	\$ 67,156	\$ -	\$ 52,500	\$ -	\$ 68,200	\$ -	\$ 876	\$ 121,576	\$ 188,732	
Task 7 - Request for Proposals (RFPs) and Change Orders (COs)		25	3	40	70	60	90	80	40	0	0	0	408	\$ 63,423	\$ -	\$ 14,725	\$ -	\$ 11,280	\$ -	\$ -	\$ 26,005	\$ 89,428	
7.1	Coordinate with CM&I to prepare a description of proposed Modifications for RFPs and COs	20	2	40	60	60	80	80	40				382	\$ 58,659	\$ -	\$ 10,500	\$ -	\$ 9,400	\$ -	\$ -	\$ 19,900	\$ 78,559	
7.2	Review Change Orders prepared by the CM&I team.	5	1		10								26	\$ 4,764	\$ -	\$ 4,225	\$ -	\$ 1,880	\$ -	\$ -	\$ 6,105	\$ 10,869	
Task 8 - Substantial/Final Completion Walk-Throughs		24	0	0	40	0	40	0	12	0	0	0	116	\$ 20,435	\$ 202	\$ 21,330	\$ -	\$ 50,947	\$ -	\$ 6,034	\$ 78,311	\$ 98,948	
8.1	Conduct two (2) substantial completion walk-throughs/inspections, coordinated by the CM&I. Submit a Substantial Completion punch list and letter to the Owner's Representative, once work is considered substantially complete.	16			24								72	\$ 12,813	\$ 134	\$ 10,230	\$ -	\$ 33,064	\$ -	\$ 1,922	\$ 45,216	\$ 58,163	Mileage
8.2	Conduct one (1) final completion walk-through/inspection (coordinated by the CM&I). Once deemed complete, recommend, in writing, the final payment to the Contractor.	8			16								44	\$ 7,622	\$ 67	\$ 11,100	\$ -	\$ 17,883	\$ -	\$ 4,112	\$ 33,095	\$ 40,784	Mileage
Task 9 - Record Drawings		9	9	0	44	0	40	176	0	1	0	2	281	\$ 45,284	\$ -	\$ 25,695	\$ -	\$ 26,860	\$ -	\$ 934	\$ 53,489	\$ 98,773	
9.1.1	Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request	1	1		4			12	8				26	\$ 3,888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,888	
9.1.2	Prepare Record Drawings of the constructed project based on change order revisions and as built information provided by the contractor.	8	8		32			20	160				228	\$ 37,327	\$ -	\$ 24,095	\$ -	\$ 26,860	\$ -	\$ 934	\$ 51,889	\$ 89,216	
9.1.3	One (1) set of Record Drawings in .pdf and .dwg electronic format.				8			8	8				24	\$ 3,667	\$ -	\$ 800	\$ -	\$ -	\$ -	\$ -	\$ 800	\$ 4,467	
9.1.4	DWG file with the reference state plane coordinate system for use by ARWA									1	2		3	\$ 402	\$ -	\$ 800	\$ -	\$ -	\$ -	\$ -	\$ 800	\$ 1,202	
Task 10 - TCEQ CT Study and Corrosion Engineering Report		24	8	0	80	0	120	16	8	0	0	0	256	\$ 41,076	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,076	
10.1	Provide updated model evaluations based on final water quality obtained from all well pump tests, final CT Study, Corrosion Engineering Report, two two-hour meetings with the Program and the TCEQ.	24	8		80		120	16	8				256	\$ 41,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,076	
Supplemental Services																							
Task 11 - Supplemental		214	77	0	415	0	435	4	8	4	18	8	1,183	\$ 215,601	\$ 6,180	\$ 64,265	\$ 10,200	\$ 82,385	\$ 6,653	\$ 28,168	\$ 191,671	\$ 413,452	
11.1	Survey - Verify/Reset horizontal & vertical control points for construction purposes												30	\$ 4,110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,110	
General Construction Phase Services																							
11.2.1	Additional Site Visits	48			64								176	\$ 33,784	\$ 336	\$ 12,655	\$ -	\$ 8,266	\$ -	\$ 1,922	\$ 22,843	\$ 56,963	Mileage
11.2.2	Specialty Observations	24	16		48								136	\$ 25,462	\$ 336	\$ 8,600	\$ -	\$ 11,217	\$ -	\$ 5,766	\$ 25,583	\$ 51,381	
11.2.3	Providing services to review or evaluate 3 Contractor claims that are not due to causes within the control of Consultant.	12	12		15			4	4				62	\$ 11,912	\$ -	\$ 11,830	\$ -	\$ 5,640	\$ -	\$ -	\$ 17,470	\$ 29,382	
11.3	Attend additional meetings in the vicinity of the project	20			20								60	\$ 12,051	\$ 336	\$ 2,700	\$ -	\$ 10,840	\$ -	\$ -	\$ 13,540	\$ 25,927	Mileage
11.4	Factory Performance and Off Site Tests		8		24								56	\$ 9,146	\$ 4,500	\$ -	\$ -	\$ 8,170	\$ -	\$ -	\$ 8,170	\$ 21,816	
11.5	On site Witness Testing	8	1		24								57	\$ 9,914	\$ 202	\$ -	\$ -	\$ 8,212	\$ -	\$ -	\$ 8,212	\$ 18,328	
11.6	Additional Submittals/RFIs/Substitutions and Alternatives	32	8		80								200	\$ 35,720	\$ -	\$ 10,250	\$ -	\$ 5,650	\$ -	\$ 876	\$ 16,776	\$ 52,496	
11.7	Start-up and Commissioning Assistance	40	24		80								224	\$ 41,818	\$ 336	\$ 12,655	\$ -	\$ 17,040	\$ -	\$ 3,844	\$ 33,539	\$ 75,693	
11.8	Substantial and Final Completion Walkthroughs - Additional Coordination Efforts	24			40								108	\$ 19,694	\$ 134	\$ 5,575	\$ -	\$ 7,350	\$ -	\$ -	\$ 12,925	\$ 32,753	
11.9	Corrosion Investigation, Data Collection and Design Support												0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,812	\$ 10,812	\$ 10,812	
11.10	Post Construction Corrosion Services	2	4		4								18	\$ 3,193	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,948	\$ 4,948	\$ 8,141	
11.11	Geotechnical Review of Subsurface and Physical Site Conditions	2			8								26	\$ 3,935	\$ -	\$ -	\$ -	\$ -	\$ 6,653	\$ -	\$ 6,653	\$ 10,588	
11.12	Surge/Transient Start-up Support	2	4		8								30	\$ 4,862	\$ -	\$ 10,200	\$ -	\$ -	\$ -	\$ -	\$ 10,200	\$ 15,062	
Total Hours by Role:		630	114	120	1,621	60	1,625	276	162	5	18	10	Grand Total	\$ 801,903	\$ 8,599	\$ 325,675	\$ 10,200	\$ 422,818	\$ 6,653	\$ 44,236	\$ 796,922	\$ 1,598,360	
Percent of time on an annual basis		16%	3%	3%	42%	2%	42%	7%	4%	0%	0%	0%											

*Hourly rates are escalated through December of 2022

HUB Participation	
Basic	22%
Supplemental	17%
Total	20%

	Subconsultant Basic Services	\$ 261,410	\$ -	\$ 340,433	\$ -	\$ 16,068	\$ 605,251	
	5% Markup	\$ 13,071	\$ -	\$ 17,022	\$ -	\$ 803	\$ 30,263	1,215,171 Basic Effort
	Subconsultant Supplemental Services	\$ 64,265	\$ 10,200	\$ 82,385	\$ 6,653	\$ 28,168	\$ 191,671	
	5% Markup	\$ 3,213	\$ 510	\$ 4,119	\$ 333	\$ 1,408	\$ 9,584	423,036 Supplemental

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.4** Consider adoption of Resolution 2021-05-26-003 approving Work Order #7 with LNV, Inc. for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project, as recommended by the Technical Committee. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Alliance Water entered into a Work Order in October 2018 with LNV, Inc., now Ardurra Group, Inc. (Ardurra) to provide final preliminary and final design engineering services for the Phase 1B Raw Water Infrastructure project. The final design is complete and the construction notice-to-proceed is expected to be issued in July. In order to maintain progress, Staff has negotiated a scope and fee with Ardurra to provide construction administration and construction engineering services for the Phase 1B Raw Water Infrastructure project.

Below are some of the key facts regarding the proposal:

Firm: Ardurra Group, Inc.
Fee: \$347,310 (100% ARWA)
Work Order Type: Hourly, Not-to-Exceed
Anticipated Duration: 26 months
Project Manager: Marcus Naiser, P.E.
Key Subconsultants: BGE & Gupta & Associates

Staff is requesting that the Committee recommend Board approval of a Work Order with a fee for the basic services of \$210,345 and a fee for supplemental effort in an amount not-to-exceed \$136,965 for a total fee of \$347,310. The Executive Director will be given the discretion to authorize the supplemental effort if needed.

Attachment(s)

- Resolution 2021-05-26-003
- LNV Proposal for RWI Construction Phase Services dated May 10, 2021.

Recommendation(s)

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

Board Decision(s) Needed:

- Adoption of Resolution 2021-05-26-003 approving Work Order #7 with LNV, Inc. for Construction Administration Services on the Authority's Phase 1B Raw Water Infrastructure and Water Treatment Plant Project.



ALLIANCE WATER

RESOLUTION NO. 20210526-003

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #7 BETWEEN THE AUTHORITY AND LNV, INC FOR CONSTRUCTION ADMINISTRATION PHASE SERVICES RELATED TO THE AUTHORITY'S PHASE 1B RAW WATER INFRASTRUCTURE PROJECT AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with LNV, Inc. ("LNV") for professional engineering services and related matters in May 2016.

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 LNV for preliminary and final design as well as procurement services for the Authority's Phase 1B Raw Water Infrastructure Project (the "Project") in October 2018.

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 Walker Partners.

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 LNV is approved to be billed based on actual time and materials in an amount not-to-exceed \$210,345.

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, \$136,965. Any supplemental amendments above \$50,000 must be brought to the Authority's Board of Directors for approval.

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

Resolution 20210521-003
Phase 1B Raw Water Infrastructure Construction Administration

ADOPTED: May 26, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors



May 10, 2021

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

Re: ARWA Phase 1B, Raw Water Infrastructure (RWI) Construction Phase Services Contract

Dear Mr. Moore,

Please find the attached scope of work and fee schedule for the construction phase services associated with the Raw Water Infrastructure (RWI) project elements. This agreement only includes scope and fee for construction administration and construction phase services for the RWI portion of the project. Please contact me at 512-381-8333 or mnaiser@ardurra.com if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads 'Marcus J. Naiser'.

Marcus J. Naiser, P.E.
Group Leader
LNV, LLC
mnaiser@lvinc.com

cc: Alisa Gruber, P.E.

attachments: ARWA 1B RWI Construction Phase Scope of Work
ARWA 1B RWI Construction Phase Level of Effort, Fee Schedule

**Alliance Regional Water Authority
Phase 1B Raw Water Infrastructure
Construction Phase Scope**

I. Scope of Services

1. Project Management
 - 1.1. Prepare Monthly Summary Reports/Invoicing as identified in the ARWA Phase 1B Program Management Plan **(12 invoice packet submissions by Ardurra only)**
 - 1.2. Review, Update and Submit Monthly Permit Tracking Log **(26 permit tracking log updates by Ardurra only; RWI has TCEQ, TWDB, USACE NWP, Groundwater Districts, County Site)**
 - 1.3. Meetings
 - 1.3.1. Quality Control Audit (one workshop)
 - **Ardurra to prepare for and attend one workshop**
 - **GAI to prepare for and attend one workshop**
 - **BGE to prepare for and attend one workshop**
 - **RW Harden to prepare for and attend one workshop**
2. Regulatory Agency Coordination and Permits
 - 2.1. Gonzales County Underground Water Conservation District (one one-hour virtual meeting or phone conf.)
 - **Ardurra to have two personnel in attendance at meeting**
 - **RW Harden to have one personnel in attendance at meeting**
3. Public Utility Coordination
 - 3.1. Guadalupe Valley Electrical Cooperative (two one-hour virtual meetings or phone conferences)
 - **ARDURRA to have two personnel in attendance for two one-hour meetings with GVEC**
 - **GAI to have two personnel in attendance for two one-hour meetings with GVEC**
4. Construction Site Visits and Progress Meetings
 - 4.1. Pre-Construction Meetings
 - 4.1.1. Attend a pre-construction meeting coordinated by the Construction Management and Inspection (CM&I) team.
 - **Ardurra to have two personnel in attendance for pre-construction meeting**
 - **GAI to have personnel in attendance for pre-construction meeting**
 - **BGE to have personnel in attendance for pre-construction meeting**
 - **RW Harden to have personnel in attendance for pre-construction meeting**
 - 4.2. Monthly Site Construction Progress Meetings and Observations by Engineering Staff (eight hours each)
 - 4.2.1. 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 CM&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

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.

4.2.2. 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.

4.2.3. Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.

- **Ardurra will perform 12 monthly site observations**
- **GAI will perform 8 monthly site observations**
- **BGE will perform 4 virtual monthly site observations**
- **RW Harden will perform 4 onsite pumping equipment acceptance tests (including testing report preparation)**
- **Chapman will perform site observations at critical milestones during the cathodic protection (CP) installation as follows:**
 - **One site observation to meet with installation contractor and discuss critical installation items**
 - **One site observation to check materials prior to installation**
 - **One site observation to observe anode installation**
 - **One site visit to observe bonding installation**

4.2.4. 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.

4.2.5. 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.

4.2.6. Review monthly Construction Activity Reports prepared by the CM&I team. Provide feedback on report content as appropriate.

5. Construction Coordination

5.1. Regular coordination with Owner's Representative and CM&I group as required to facilitate administration of the project.

5.2. Participate in project quality audits as necessary, and implementation of agreed corrective actions.

- **Ardurra to attend five meetings related to quality issues during construction**

5.3. Utilize EDMS for upload/download of all construction-related documentation.

6. Shop Drawing/Submittal Review

6.1. 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 50% resubmittals.

- **Ardurra to review 30 shop drawings/submittals for civil, process mechanical, and coordination with other disciplines, as required**

- **GAI to review 20 shop drawings/submittals for Electrical & IC for conformance with original design**
 - **BGE to review 25 shop drawings/submittals for piping,**
 - **RW Harden to review five shop drawings/submittals for pump and motor equipment, and coordination with other disciplines, as required**
 - **Chapman to review up to five shop drawing/submittal for cathodic protection for conformance with original design**
7. Request for Information (RFIs)
- 7.1. Review Contractor requests for information consisting of questions or concerns that may arise during construction and respond within five calendar days.
- **Ardurra will review up to 16 RFIs**
 - **GAI will review up to 16 RFIs**
 - **BGE will review up to eight RFIs**
 - **RW Harden will review up to two RFIs**
 - **Chapman will review up to two RFIs for the CP system**
8. Request for Proposals (RFPs) and Change Orders (COs)
- 8.1. Coordinate with CM&I to prepare a description of proposed Modifications for RFPs and COs. CM&I will issue each RFP form to Contractor through the EDMS.
- **Ardurra to coordinate and prepare descriptions for four RFPs**
 - **GAI to coordinate and prepare descriptions for two RFPs**
 - **BGE to coordinate and prepare descriptions for two RFPs**
- 8.2. Coordinate with CM&I for review and response to RFPs and provide recommendations to the Owner's Representative for consideration.
- **Ardurra to coordinate review and response to four RFPs**
 - **GAI to coordinate review and response to two RFPs**
 - **BGE to coordinate review and response to two RFPs**
- 8.3. Review Change Orders prepared by the CM&I team.
- **Ardurra to review two COs**
 - **GAI to review two CO**
 - **BGE to review two COs**
9. Substantial/Final Completion Walk-Throughs
- 9.1. Consultant to conduct substantial completion walk-through(s)/inspection(s), 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.
- **Ardurra engineers to perform two substantial completion walk-throughs**
 - **GAI engineers to perform two substantial completion walk-throughs**
 - **BGE engineers to perform one substantial completion walk-through**
 - **RW Harden engineers to perform one substantial completion walk-through**
 - **Chapman personnel will perform one substantial completion walk-through**
- 9.2. Consultant to conduct one 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.
- **Ardurra engineers to perform one final completion of work walk-through**
 - **GAI Electrical & IC engineers to perform one final completion of work walk-through**
 - **BGE engineers to perform one final completion of work walk-through**

- **RW Harden engineers to perform one final completion of workwalk-through**
- **Chapman Personnel will perform one final completion of workwalk-through**

10. Record Drawings

10.1. 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:

- 10.1.1. Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request
- 10.1.2. Prepare Record Drawings of the constructed project based on change order revisions and as built information provided by the contractor. The RWI team will provide a Draft Record Drawing submittal and a Final Record Drawing submittal. The RWI team will coordinate with the CM&I group to accomplish this with a maximum of two submittals.
- 10.1.3. Provide the Owner's Representative with one set of Record Drawings in .pdf and .dwg electronic format.
- 10.1.4. Provide the Owner's Representative with the DWG file with the reference state plan coordinate system for use by ARWA.

11. Supplemental

11.1. Start-up and Commissioning Assistance

- 11.1.1. Engineering Staff to be on-site and available for providing engineering support to CM&I for start-up and commissioning.
 - **Ardurra staff to be on-site for five days**
 - **GAI staff to be on-site for five days**
 - **BGE staff to be on-site for one day**
 - **RW Harden staff to be on-site for three days**
 - **Chapman technician be on-site for two days to observe the cathodic protection rectifier installation, energize the system, and perform "Tap" setting adjustments**

11.2. Factory Performance and Off-Site Tests will be witnessed at the supplier's place of business for the following equipment:

- **GAI will attend factory witness for a total of four eight-hour days, including travel.**
- 11.2.1. Well Pump and Motor Systems for the four wells.
 - **Ardurra process mechanical engineer to attend for two days, including expenses**

11.3. Specialty Observations

- **Ardurra will perform 5 specialty observations**
- **GAI will perform 6 specialty site observations for Electrical & IC installation**
- **BGE will perform 3 specialty observations**
- **Chapman will perform specialty observations as follows:**
 - **One visit to check piping corrosion protection quality and defects**
 - **One visit to observe test station installation**
 - **One visit to observe pipe joint bonding and coating repairs**

Specialty observations will be limited to spot checking, selective measurement, and similar methods of general observation for observation of equipment requiring additional observations beyond the monthly observations. This includes well motor/pump systems, surge suppression systems, generator and structures. Based on information obtained

during specialty observations, Consultant will evaluate whether Contractor's work is in accordance with the Contract Documents, and Consultant will keep Client informed of the 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 CM&I. Consultant's visits and observations are subject to the limitations on Consultant's authority and responsibility described in the General Conditions.

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.

11.3.1. 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.

11.3.2. Notify CM&I team of inconsistencies with observed work with respect to Contract Documents.

11.4. General Construction Phase Services, which may include:

11.4.1. Additional site visits

- **Ardurra to provide up to five additional site visits**
- **GAI to provide up to five additional site visits**
- **BGE to provide up to one additional site visit**
- **RW Harden to provide one additional site visit**
- **Chapman to provide up to two additional site visits**

11.4.2. Providing services to review or evaluate Contractor claims that are not due to causes within the control of Consultant.

- **Ardurra to review or evaluate three contractor claims**
- **GAI to review or evaluate three contractor claims**
- **BGE to review or evaluate three contractor claims**
- **RW Harden to review or evaluate three contractor claims**

11.5. Attend additional meetings in the vicinity of the project (five meetings)

- **Ardurra to attend five additional meetings**
- **GAI to attend five additional meetings**
- **BGE to attend two additional meetings**
- **RW Harden to attend one additional meeting**

11.6. Corrosion Investigation, Data Collection and Design Support

11.6.1. Chapman will provide one engineer and two technicians to identify, catalogue, and document survey test points following Commissioning of the CP system. This will include performing and recording baseline potential measurements at selected test locations prior to permanently energizing the CP system.

- **Ardurra to provide support and coordination**
- 11.7. Post Construction Corrosion Services
- 11.7.1. **Chapman will provide two technicians to perform a facility CP survey of previously identified test locations after sufficient time has been allowed for polarization of the protected structures.**
- **Ardurra to provide support and coordination**
- 11.8. Geotechnical Review of Subsurface and Physical Site Conditions
- 11.8.1. Geotechnical Review and Construction Services
- **HVJ to perform up to two site visits during construction to confirm site conditions are consistent with geotechnical investigation recommendations and to provide any further recommendations as needed.**
 - **Ardurra to provide support and coordination**
- 11.9. One Pre-submittal workshop/coordination meeting or conference call for each of the following specialty equipment:
- 11.9.1. Well Pump and Motor System
- 11.9.2. Power Factor Correction system components
- **Ardurra will attend one pre-submittal workshop/coordination meetings or conference calls as outlined above**
 - **GAI will attend two pre-submittal workshop/coordination meetings or conference calls as outlined above**
- 11.10. On-site Witness Testing
- 11.10.1. IC demonstration tests to be witnessed, including travel time. All tests will be at the project site.
- **GAI to send IC engineer for three days**
- 11.10.2. Well Pump and Motor systems tests to be witnessed with all tests at the project site.
- **Ardurra to send engineer for four days, includes travel time**
 - **RWH to send engineer for three-one day visits**
- 11.11. Alternatives and Substitutions
- 11.11.1. Review of alternatives and substitutions proposed by Contractor. Recommend acceptance or rejection of the request for substitutions.
- **Ardurra review of four alternatives and four substitutions**
 - **GAI review of three alternatives and three substitutions**
 - **BGE review of two alternatives and three substitutions**
 - **RW Harden review of one alternative and one substitution**
 - **Chapman to perform review of alternatives and substitutions for CP system**
- 11.12. Program Engineer SCADA Programming Coordination
- **Ardurra & GAI to provide review, input, coordination, meeting attendance, and recommendations for SCADA Program Engineer, as required.**
- 11.13. Surge analysis construction phase service
- **Hazen Sawyer to rerun model for potential field changes and make recommendations for additional or alternate surge protection measures.**
 - **Field visit and observation report**

ASSUMPTIONS

1. Scopes provided assume CM&I or Client Representative will be responsible for logging and tracking of all submittals, RFI's, and COs.
2. CM&I is responsible for reviewing monthly construction pay applications and making recommendations for payment
3. CM&I is responsible for reviewing monthly construction schedules and confirming compliance with Contract dates and key milestones
4. CM&I is responsible for reviewing monthly as-builts provided by Contractor.
5. Engineer is not responsible for safety beyond what is covered and required in the Project Management Plan. The engineers and design staff are not responsible for the safety of others.
6. The construction period will last 26 months, beginning from Notice to Proceed.
7. The Construction phase will follow the recommendations of the Program Project Management Plan dated October 2019.
8. The project will be constructed under one contract.
9. The CM&I will provide a field office structure with furniture for engineering staff during site visits and meetings.
10. Monthly construction progress meetings will be attended at the project site.
 - a. Ardurra will have two persons attend each meeting.
 - b. GAI will have one person attend each meeting.
 - c. BGE will have one person attend each meeting.
 - d. RW Harden will have one person attend each meeting.
 - e. Chapman will have one person attend each meeting.
11. Monthly site visits will be completed at the project site (will concurrently with the construction progress meetings)
 - a. Ardurra will have two persons attend each site visit.
 - b. GAI will have one person attend each site visit.
 - c. BGE will have one person attend each site visit.
 - d. RW Harden will have one person attend each site visit.
 - e. Chapman will have one person attend each site visit.
12. Submittals include shop drawings, O&M submittals, and samples.
13. Plan of operations for startup and operation of the facility will be provided by the CM&I or Client's representative.
14. Operations and Maintenance Manual addressing all new facilities and systems will be provided by the CM&I or Client's representative.
15. Any labor expenses required to address construction claims, unforeseen subsurface considerations, or additional construction requested by the Contractor or Owner will constitute a change of scope and will be additional costs based on a revised labor rate schedule.
16. Any claims resolution or litigation assistance requested of the engineer will constitute a change of scope and will be additional costs based on a revised labor rate schedule.
17. Classroom and field training for plant staff is not included in the scope of services.
18. Operations assistance beyond what is specifically provided has not been included in the scope of services.
19. Warranty inspections and facility performance review/inspections have not been included in the scope of services.
20. This agreement only includes scope and fee for construction administration and construction

engineering services for the RWI portion of the project.

II. Fees

See the attached level of effort man hour breakdown

III. Terms and Conditions

The terms and conditions of service are in accordance with Master Agreement executed between Alliance Regional Water Authority and LNV on May 25, 2016.

Alliance Water Phase 1B Program																	Project Fee Summary (HNTE)	
Raw Water Infrastructure Construction Services - 5/10/2021																	Basic Effort HNTE	\$ 210,345
Detailed Overall Consultant Cost Breakdown																	Supplemental HNTE	\$ 136,965
																	Total Effort HNTE	\$ 347,310

Task	Employee	Marcus Naiser	Tye Jordan	Amol Sawhney / Daniel Monroe	John Fellingham / Samerigo	Abby Shelton	[Consultant] Total Hours	[Consultant] Total Labor Effort	[Consultant] Total Expense Effort	BGE	Chapman Engineering	GAI	RW Harden	HVJ	Hazen Sawyer	Total Sub Effort	Total Effort	Assumptions								
		Principle	PM II	ENG II	ENG II	Clerical																				
Hourly Bill Rate		\$260.00	\$220.00	\$130.00	\$130.00	\$75.00																				
Basic Services																										
Task 1 - Project Management																										
1.1	Prepare 12 Invoice Packets (Summary Reports, Invoices)	0	32	29	0	0	61	\$ 10,810	\$ -	\$ 980	\$ 1,755	\$ 4,825	\$ 3,010	\$ -	\$ -	\$ 10,570	\$ 21,380									
1.2	Prepare, Update and Submit Permit Log (26 updates)		15				15	\$ 3,300									\$ 3,300									
1.3	Meetings																									
1.3.1	1 Quality Control Audit		5	5			10	\$ 1,750									\$ 1,750									
Task 2 - Regulatory Agency Coordination																										
2.0	Regulatory Agency Coordination and Permits (one one-hour virtual meeting or phone conference)	1	11		0	0	12	\$ 2,680	\$ -	\$ 660	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 660	\$ 3,340									
Task 3 - Public Utility Coordination																										
3.0	Public Utility Coordination (two one-hour virtual meetings or phone conferences each)	0	2	0	0	0	2	\$ 440	\$ -	\$ -	\$ -	\$ 867	\$ -	\$ -	\$ -	\$ 867	\$ 1,307									
Task 4 - Construction Site Visits and Progress Meetings																										
4.1	Pre-Construction Meetings (1 Project and 1 County)		4	4			8	\$ 1,400									\$ 1,400									
4.2	Monthly Site Construction Progress Meetings and Observations (12 total)		60				60	\$ 13,200									\$ 13,200									
Task 5 - Construction Coordination																										
5.1	Coordination with Owner's Rep and CM&I Group to Facilitate Project Admin	3	12				17	\$ 3,570									\$ 3,570									
5.2	Attend 5 meetings related to quality issues during construction	1	3	5			10	\$ 1,645									\$ 1,645									
5.3	Utilize EDMS for upload/download of all construction-related documentation		8	10			32	\$ 5,460									\$ 5,460									
Task 6 - Shop Drawing/Submittal Review																										
6.1	Review 30 shop drawings/submittals and provide responses within 14 calendar days (assume review effort will include the original submittal and 50% resubmittals)	0	16	48	0	0	64	\$ 9,760	\$ -	\$ 7,085	\$ 4,910	\$ 12,036	\$ 2,180	\$ -	\$ 3,450	\$ 29,661	\$ 39,421									
Task 7 - Request for Information (RFIs)																										
7.1	Review 16 Contractor RFIs	0	12	55	0	0	67	\$ 9,790	\$ -	\$ 5,440	\$ -	\$ 6,610	\$ 2,340	\$ -	\$ 3,010	\$ 17,400	\$ 27,190									
Task 8 - Request for Proposals (RFPs) and Change Orders (COs)																										
8.1	Coordinate with CM&I to prepare a description of proposed Modifications for 4 RFPs		2	11			13	\$ 1,870									\$ 1,870									
8.2	Coordinate with CM&I for review and response to 4 RFPs and provide recommendations to the Owner's Representative for consideration.		2	11				\$ 1,870									\$ 1,870									
8.3	Review 2 Change Orders prepared by the CM&I team.		2	4			6	\$ 960									\$ 960									
Task 9 - Substantial/Final Completion Walk-Throughs																										
9.1	Conduct two (2) substantial completion walk-throughs/inspections, coordinated by the CM&I. Submit a Substantial Completion punch list and letter to the Owner's Representative, once work is considered substantially complete.		6	12			20	\$ 3,030									\$ 3,030									
9.2	Conduct one (1) final completion walk-through/inspection (coordinated by the CM&I). Once deemed complete, recommend, in writing, the final payment to the Contractor.		6	6			13	\$ 2,175									\$ 2,175									
Task 10 - Record Drawings																										
10.1	Prepare Contract Record Drawings using the marked up red lines drawings provided by the Contractor during construction and appropriate field documentation received from the Consultant and the CM&I group during construction site visits.	0	0	0	75	0	75	\$ 9,750	\$ -	\$ 7,670	\$ 2,100	\$ 4,488	\$ -	\$ -	\$ -	\$ 14,258	\$ 24,008									
10.1.1	Prepare final Change Order (over and unders) recapitulation of the Project in conjunction with the final pay request					42	42	\$ 5,460									\$ 5,460									
10.1.2	Prepare draft and final record drawing sets of the constructed project based on change order revisions and as built information provided by the contractor.					14	14	\$ 1,820									\$ 1,820									
10.1.3	One (1) set of Record Drawings in .pdf and .dwg electronic format.					4	4	\$ 520									\$ 520									
10.1.4	DWG file with the reference state plan coordinate system for use by ARWA					4	4	\$ 520									\$ 520									
Basic Services Total:								\$ 78,410	\$ -	\$ 31,979	\$ 16,850	\$ 57,426	\$ 19,220	\$ -	\$ 6,460	\$ 131,935	\$ 210,345									
Supplemental Services																										
Task 11 - Supplemental																										
11.1	Start-up and Commissioning Assistance (5 days)	12	109	70	17	2	210	\$ 38,560	\$ -	\$ 19,110	\$ 9,588	\$ 40,373	\$ 20,955	\$ 1,630	\$ 6,750	\$ 98,405	\$ 136,965									
11.1.1	Start-up and Commissioning Assistance (5 days)		4	13	17		34	\$ 4,780		\$ 3,034	\$ 1,989	\$ 5,741	\$ 3,010			\$ 13,773	\$ 18,553									
11.2	Factory Performance and Off-Site Tests	4	10				14	\$ 3,240			\$ 5,611					\$ 5,611	\$ 8,851									
11.3	Specialty Observations (5 total)	4	25				29	\$ 6,540	\$ 3,030	\$ 1,804	\$ 6,356					\$ 11,190	\$ 17,730									
11.4	General Construction Phase Services						0	\$ -	\$ 8,934							\$ 8,934	\$ 8,934									
11.4.1	5 Additional Site Visits		4	8			12	\$ 1,920			\$ 5,363	\$ 3,320				\$ 8,683	\$ 10,603									
11.4.2	Providing services to review or evaluate 3 Contractor claims that are not due to causes within the control of Consultant.	2	8				10	\$ 2,280			\$ 1,415	\$ 4,050				\$ 5,465	\$ 7,745									
11.5	Attend additional meetings in the vicinity of the project (5 meetings)		10				10	\$ 2,200	\$ 1,517		\$ 5,363	\$ 2,070				\$ 8,950	\$ 11,150									
11.6	Corrosion Investigation, Data Collection and Design Support		2	1			3	\$ 570		\$ 4,643						\$ 4,643	\$ 5,213									
11.7	Post Construction Corrosion Services		1				1	\$ 220		\$ 1,153						\$ 1,153	\$ 1,373									
11.8	Geotechnical Review of Subsurface and Physical Site Conditions (2 occurrences)		1				1	\$ 220					\$ 1,630			\$ 1,630	\$ 1,850									
11.9	One Pre-submittal workshop/coordination meeting or conference cal		5				5	\$ 1,100			\$ 613					\$ 613	\$ 1,713									
11.10	On-site Witness Testing		12	20			32	\$ 5,240			\$ 2,960	\$ 6,975				\$ 9,935	\$ 15,175									
11.11	Alternatives and Substitutions		12	28			40	\$ 6,280	\$ 2,595		\$ 1,401	\$ 1,330				\$ 5,326	\$ 11,606									
11.12	Program Engineer SCADA Programming Coordination	2	15				19	\$ 3,970			\$ 5,550	\$ 200				\$ 5,750	\$ 9,720									
11.13	Surge analysis construction phase service						0	\$ -	\$ -						\$ 6,750	\$ 6,750	\$ 6,750									
Total Hours by Role:								17	287	265	92	40						\$ 116,970	\$ -	\$ 51,089	\$ 26,438	\$ 97,799	\$ 40,175	\$ 1,630	\$ 13,210	\$ 347,310

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.5** Consider adoption of Resolution 2021-05-26-004 approving Work Order #5 with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The Authority issued RFQ 2019-003 in December 2019 for the Construction Management & Inspection Services for the Authority's Phase 1B Program. With the construction of the Water Treatment Plant and Raw Water Infrastructure Program set to start in July, the Authority is need of on-site construction management and inspection services.

The Executive Director negotiated the attached scope and fee for the construction management and inspection services. The effort is based on an hourly rates with staff brought on board to the program as the various projects move into construction. The work order has been structured to last through the end of the current year, with the expectation that a new work order would be issued for the year 2022.

In addition to the typical observation and inspection efforts (observing construction, periodic contractor meetings, submittal/RFI coordination, review of pay apps, schedules and change order requests, etc.), the scope of services includes fee to setup the electronic document tracking system, training of personnel on the system, a construction trailer at the treatment plant.

Staff anticipates multiple work orders over the next several years with Pape-Dawson for the construction management and inspection work.

Below are some of the key facts regarding the proposal:

Firm: Pape-Dawson Engineers, Inc.

Fee: \$2,148,056 (56% ARWA)

Work Order Type: Hourly Rate, Not-to-Exceed

Anticipated Duration: 7 months

Project Manager: Chris Noe, P.E.

Key Subconsultants: Foster CM Group, TEC Consulting & JH Engineering

Staff is requesting Board approval of the Work Order#5 with a fee not-to-exceed \$2,148,056.

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

Attachment(s)

- Resolution 2020-05-26-004
- ARWA Phase 1B CM&I – Work Order #5 Proposal dated May 6, 2021.

Board Decision(s) Needed:

- Adoption of Resolution 2021-05-26-004 approving Work Order #5 with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program.



ALLIANCE WATER

RESOLUTION NO. 201210526-004

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS APPROVING WORK ORDER #5 BETWEEN THE AUTHORITY AND PAPE-DAWSON ENGINEERS, INC. FOR CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES RELATED TO THE AUTHORITY'S PHASE 1B PROGRAM AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a master agreement with Pape-Dawson Engineers, Inc. ("Pape-Dawson") for professional construction management and inspection services and related matters in May 2020.

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 whole Phase 1B Program, including coordination with all consultants after selection through completion of the Program.

3. The Authority entered into a work order with Pape-Dawson for limited construction management and inspection work for the Authority's Phase 1B projects in May 2020 and entered into additional work orders in July, October and December 2020 for additional effort.

4. The Authority requires additional construction management and inspection services for the Authority's Phase 1B projects associated with the actual construction activities of the Phase 1B Program.

5. The Work Order was negotiated by the Executive Director on behalf of the Authority. The work order references terms and conditions in the Master Agreement between the Authority and Pape-Dawson.

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

SECTION 1. The attached work order for Construction Management and Inspection Services for the Phase 1B Program between the Authority and Pape-Dawson is approved.

SECTION 2. The Authority's Executive Director, Graham Moore, is authorized to execute the attached Work Order #5 on behalf of the Authority.

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

Resolution 20210526-004
Phase 1B CM&I Services

ADOPTED: May 26, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors

May 6, 2021
(Revised May 13, 2021)

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

Re: ARWA Phase 1B CM&I – Work Order #5

Dear Mr. Moore:

We are pleased to present this proposal for providing Construction Management and Inspection (CMI) services in connection with the above referenced project. Our proposed scope of services and associated fees are as follows:

I. GENERAL TASKS

A. Program Construction Manager Services

- Perform construction observation and construction administration tasks as ARWA's designated Owner's Representative during construction.
- Serve as the primary point of contact for the Owner's Project Team (OPT) in the administration of the construction program. The OPT consists of ARWA, Kimley-Horn, Pape-Dawson, the Design Consultants and the Material Testing Service. Pape-Dawson will establish the construction oversight processes and procedures and conduct progress meetings for the program.
- Suggest required staffing levels and make assignments as necessary to see that construction activities are adequately covered and that the needs of the program are being met. Provide a Construction Management Team (CMT) of qualified personnel to execute the responsibilities of the Owner's Representative. Major team roles to be staffed include:
 - *Owner's Representative during Construction (referred to as the CMI in Specification Section 00 73 00 of the Contract Documents)*
 - The single-point of contact for the OPT for Construction Phase activities and is responsible for the execution of Owner's Representative Services across the Program.
 - *Construction Managers*
 - Provide on-site, full-time Construction Manager for facilities projects for coordination and oversight of project Contractor and PDC activities on behalf of PMC and Owner.
 - Provide on-site, full-time Construction Manager for pipeline projects for coordination and oversight of project Contractor and PDC activities on behalf of PMC and Owner.

- *Owner's Field Representatives*
 - Provide on-site, full-time Owner's Field Representatives for facilities projects for observation of construction activities on behalf of ARWA.
 - Provide on-site, full-time Owner's Field Representatives for pipeline projects for observation of construction activities on behalf of ARWA.
 - Provide specialized Owner's Field Representatives for as needed to support facility and pipeline Owner's Field Representatives. Examples include activities such as electrical, welding, and tunneling.
- *Owner's Representative Scheduler*
 - Provide Owner's Representative Scheduler for facility and pipeline projects.
- *Commissioning Manager*
 - Provide Commissioning Manager to oversee Program's commissioning and startup planning and execution activities.
- Implement and execute a Construction Management Plan to assist in the administration of the construction contracts in accordance with the Program's requirements and Construction Documents. The Construction Management Plan (CMP) establishes standard operating procedures, protocols and forms for construction management and administration activities, including submittals, substitution requests, construction schedule, requests for information, requests for change in the Contract Amount or the Contract Time, applications for payment, as-builts, records drawings, materials testing, record-keeping, and operating and maintenance manuals.
 - Review schedules, project costs and project progress payment requests from the Contractor and approve or reject.
 - Provide monthly status reports which include at a minimum:
 - Pape-Dawson progress pay requests
 - Risk Register updates
 - Decision Register updates
 - Updates to Program Schedule milestones which are mutually agreed upon by ARWA, Pape-Dawson and Kimley-Horn
 - Overall Work completed to Date
 - Tasks completed in the last 30 days
 - Tasks to be completed in the next 30 days
 - Overall Work to be completed
 - Reasons & Solutions for Delays
- Develop, implement, and maintain an Electronic Document Management System (EDMS) using Microsoft SharePoint. Pape-Dawson will host the SharePoint site and provide access to individuals involved in Construction Phase activities. Pape-Dawson intends to maintain documents in electronic format to the extent possible to be sustainable and also for ease of search and retrieval. Documentation includes drawings, logs, RFIs, submittals, correspondence, letters and reports. Manage access to EDMS.

- Provide temporary field offices at the Water Treatment Plant and Booster Pump Station for Pape-Dawson use. The Contractor will provide temporary services and connections to the CMT trailer and provide a level gravel pad to support the trailer. Pape-Dawson is responsible for monthly service charges which will be invoiced to ARWA.
- Provide a Field Observation Report platform that promotes consistency in data collections, is searchable using metadata, and provides near-real time information to the OPT. Pape-Dawson intends to use Headlight to provide this service.

B. Field Construction Manager Services

- Manage and administer the day-to-day Owner Representative requirements of the Projects.
- Serve as the liaison between the construction contractors and the OPT. Provide leadership to the assigned Field Staff in the performance of their duties and manage the administrative efforts required to support construction of the Projects.
- Execute the Construction Management Plan. This includes such activities as determination of pay application quantities, review of schedule updates, coordination of change orders, coordinate material testing, lead daily site observations, and coordinate quality assurance activities with the OPT.
- Maintain and monitor project risk using a risk register. Project risk registers will initially be the Design Consultant's list of open risk items remaining at the end of the Design Phase. The risk register will be reviewed by the OPT and Contractor during progress meetings. As risks to the project develop or change, the register will be updated and reported in Pape-Dawson's monthly status report to ARWA.
- Maintain a decision register to track major discussions items that come up throughout the life of the project. These items will be pulled from the meeting notes as well other communications such as calls and e-mails. Major discussion items will be tracked along with initial and final decisions that are proposed for the item. This log will be a living document and that is updated monthly.

C. Owner's Field Representative Services

- Perform observation and documentation of construction activities for conformance to the Contract Documents as directed by the Construction Manager.
- Provide adequate, qualified staff to conduct daily, on-site, full-time observation services.
- Provide daily quality assurance of the Contractor's quality control process.
- Coordinate Material Testing Service verification testing with Contractors.

D. Commissioning

Serve as ARWA's designated representative as the Program-wide commissioning manager responsible for integrating the commissioning and startup activities of the

Program's multiple Projects. Review the Contractor's Facility Startup and Performance Plan, functional and performance test results, completed unit process startup forms, and completed facility performance demonstration/certification forms. Check the Contractor's scheduled tasks and timelines against the Contractor's Facility Startup and Performance plan for adequacy to meet Program milestones. Coordinate specialists or technical advisers required from the Design Consultant. Work directly with ARWA to facilitate seamless handover to operations staff prior to Commercial Operations. Attend facility startup meetings conducted by the Contractor.

II. SIGNIFICANT SPECIFIC TASKS

A. Bidding Support Services

1. Participate as a member of the Competitive Seal Proposal evaluation team.
2. Compile contract documents from the Contractor and provide to the Program Team.

B. Schedule and Conduct Construction Meetings

1. Preconstruction Conferences
Coordinate and conduct preconstruction conferences with OPT and Contractors. Prepare the meeting agenda packet and meeting minutes for Project meetings and distribute copies as directed by ARWA.
2. Construction Meetings
Coordinate and conduct construction meetings with OPT and Contractors for purposes of conforming with Program schedule goals.

C. Monitor Contractor Activities During Construction Phase to Check Conformance with Program Schedule, Budget and Quality Goals

1. Site Visits
Prepare daily field reports and representative photos that generally document the Contractor's personnel, hours on job site, equipment in use and idle, general safety observations, quality control activities, weather conditions, data relative to extras or deductions in bid items, Work in progress and accomplished, whether Work is in general conformance with the Contract Documents, general observations and documentation of testing procedures and results. Identify deviations in the Work from the Contract Documents, note the deviations in daily reports, notify the Contractor and, as needed, the OPT of the deviations, and monitor the deviations until they are resolved.

Review documentation and Contractor resources to check that Contractor, Subcontractor, and other Project team members have the required qualifications, training, licenses, and certifications as specified.

2. Design Consultant Observation
Monitor Design Consultant observations of the progress and quality of the executed work and coordinate responses to Contractors when work is not proceeding according to contract requirements.
3. Contractor Pay Requests
Before the Contractor submits applications for payment to the Design Consultant under Section 12.1 of the TWDB Supplemental Contract Conditions, review each application in draft form, check whether the amount requested reflects the progress of the Work and is in accordance with the Contract Documents, and approve or reject the application.
4. Contractor Schedule
Review, analyze, and check logic, sequencing, and required milestones in the Contractor's initial schedule. Check Contractor's WBS against SOV to facilitate future payment review process. Translate Contractor's detailed WBS into Program Master Schedule WBS.

Review schedule for variances Contractor's schedule as part of the monthly pay application review process and notify OPT of potential concerns in delivering the Project on time.
5. Contractor Redlines
Maintain records of construction activity, approved changes, and contract deviations to support the preparation of accurate Record Drawings at the conclusion of construction.
6. Quality Assurance
Monitor the Contractor for implementation, documentation, and verification of the Contractor's Quality Control Plan. Receive, log, and distribute QA and testing results from the Material Testing Service. Review submittals and Certified Test Reports. Conduct preparatory meetings of the three-phase control system with CMT, Design Consultant, and Contractor.
7. Change Order Documentation
Monitor and coordinate with the Design Consultant the preparation of supporting documentation and/or design, and review of final draft of Change Order documents. Coordinate with the Design Consultant in the preparation, maintenance, and distribution of the Project Change Order log.
8. Substantial Completion Coordination
Coordinate with OPT and Contractor to conduct an on-site review. Maintain records of list of Work corrections (punch-list items) that need to be addressed for Final Completion and provide to Contractor.

9. Final Completion Coordination

Coordinate with the OPT and Contractor to conduct an on-site review upon notification by Contractor that Work is ready for final inspection and acceptance, and receipt of Contractor's final Application for Payment. Support the Design Consultant with preparation of the final Application for Payment upon work being found acceptable.

E. Monitor, Review and Coordinate RFIs, Change Orders, Field Revisions, Punch Lists, and other Actions during Construction.

1. RFI Coordination

Coordinate monitor and log Design Consultant responses to requests for information (RFI) submitted by the Contractor. Prepare, maintain and distribute a Project RFI log. Assist in the resolution of RFI's as needed.

2. Technical Documentation Coordination

Coordinate the provision of technical documentation to support the resolution of claims, disputes and other matters relating to the execution or progress of the construction work or interpretation of the Contract Documents.

3. Change Management

Track the progress of changes (potential and approved). Notify ARWA and Kimley-Horn of potential change requests based on RFI submitted by the Contractor, or discussions of the work. Review Contractor change orders and delay claims and make recommendations to ARWA. Assist the Design Consultant in the preparation of change requests for review, approval or rejection by ARWA providing photographs, field records, testing results and other documentation as needed to help evaluate the change request.

4. Substantial and Final Completion

Coordinate and support the Design Consultants professional inspections to determine the dates of substantial completion and final completion for the Project, to evaluate the work for acceptable conformance with the construction contract documents and to verify that any minor deviations from the construction contract documents have been corrected. Coordinate with the Design Consultants to receive and review written warranties and related documents required by the construction contract documents and assembled by the Contractor.

5. Submittals

- Monitor and record the progress of Contractor submittals such as shop drawings, product data, samples, schedules, laboratory, quarry, shop and mill tests of material and equipment. Coordinate and monitor Design Consultant progress in review and processing of Contractor submittals.

- Identify if submittals are reviewed and returned to the Contractor by the Design Consultants with recommendation for action to be taken
- Prepare, maintain and provide updated electronic copies of the Master Submittal Log. The Master Submittal Log will indicate the accurate status of project submittal requirements. Maintain status of submittals such as Reviewed, Reviewed with Comments, Revise and Resubmit or Other Action. The Contractor will prepare a Submittal Schedule, based on the Master Submittal Log. The Master Submittal Log will be distributed as requested by ARWA.

E. Monitor and Coordinate Program and Project Close Out

1. Record Drawings

Coordinate and monitor the Design Consultant's review of contractor as-built drawings and check that compiled field changes and orders, and permit corrections are complete and correctly reflected on drawings according to best available information and knowledge. Production of the record drawings will be done by the Design Consultant.

2. Close Out Procedure

Work with the Design Consultants and ARWA to check that close out paperwork required by the TWDB and Contract Documents is completed and submitted to receive release of retainage and Certificate of Approval for each Project.

Estimate of costs: See attached Exhibit A.

THIS PROPOSAL ASSUMES AND/OR EXCLUDES THE FOLLOWING:

- *Because the construction phase Owner's Representative support services are dependent on the number and duration of individual construction projects, this scope and fee is only an estimate to establish an initial funding of the Owner's Representative's work. The fee will be reevaluated as work progresses and additional fees may be required.*
- *Staffing is based on full-time observation, estimated at 50 hours per week, one pipeline crew per pipeline project and the Program construction time frames as shown in Exhibits B and C.*
- *Work will be invoiced on an hourly basis using the attached rate schedule (Exhibit D). Rates are valid through 2021.*
- *Microsoft SharePoint services are estimated based upon standard cloud business deployment. Program needs that escalate those standard deployments, such as cyber-security requirements, will require additional fees.*
- *Direct expenses for reproduction, travel, express mail, special deliveries, trailer rental, and temporary office utilities will be invoiced at cost per the Master Agreement.*
- *Additional services requested by ARWA which may arise, and are not outlined above, to be compensated for on an hourly basis or negotiated to a lump sum fee.*

COMPENSATION

Basis of Compensation

Pape-Dawson's compensation for the above services will be a charge for personnel services plus an hourly charge for specialized equipment and computers. A budget of **\$2,148,056** is the estimated cost of Pape-Dawson's current understanding of the services identified above. This also includes estimated expenses for field office trailers, temporary field office services, a cloud-based field reporting system, and other direct expenses as defined below. This budget figure does not include applicable sales tax on services. If this budget figure is exceeded, Pape-Dawson may request modification of this Agreement.

Direct Expenses include reproduction, travel, express mail, special deliveries and subcontractor expenses related to these services. Direct Expenses include a 10% markup on cost.

Agreement

Upon the signing of this Proposal by Client, this Proposal to be governed by the existing Master Agreement for Professional Engineering Services by and between Client and Engineer, dated effective as of the **27th** day of **May 2020**, with the same force and effect as if all of the terms of such Master Agreement were recited verbatim herein. Conflicts between the Master Agreement and this Proposal to be governed and controlled by this Proposal.

We appreciate the opportunity to work with you on this project. If this proposal meets with your approval, please acknowledge such by signing this proposal letter and returning it to our office via email, fax or US Mail for our records. Receipt of the executed document serves as authorization for us to proceed with the work.

Sincerely,
Pape-Dawson Engineers, Inc.



Chris Noe, P.E.
Associate Vice President



Cara C. Tackett, P.E.
Sr. Vice President

Attachments

- Exhibit A – Estimate of Costs
- Exhibit B – CMI Organization Chart
- Exhibit C – Estimated Staffing Matrix for 2021
- Exhibit D – 2021 Hourly Rate Schedule

EXHIBIT A
Estimate of Costs

	2021	
	<u>Hr - total</u>	<u>Fee</u>
A. Program Construction Manager Services		
Develop, Implement and Execute CMP	Jun -Dec 2021 (7 months)	
CMI Program Manager (PD)	520	119,600
Assistant CM (PD)	1,260	264,592
Scheduler (FCM)	540	102,505
Administrative (PD)	260	27,144
Develop, Implement and Maintain EDMS	Jun -Dec 2021 (7 months)	
SharePoint Tech (PD)	280	33,770
Provide Field Observation Platform	Jun -Dec 2021 (7 months)	
	<u>Total</u>	<u>Fee</u>
Headlight Platform (10 seats x 7 months)	70	11,900
Provide Temporary Field Offices	Aug -Dec 2021 (7 months)	
	<u>Total</u>	<u>Fee</u>
WTP Trailer (Setup)	1	18,700
WTP Trailer (Rent/mo)	5	12,100
WTP Utilities (Monthly)	5	1,100
WTP Trailer (Teardown)		
BPS Trailer (Setup)	1	18,700
BPS Trailer (Rent)	4	9,680
BPS Utilities	4	880
BPS Trailer (Teardown)		
Labor Subtotal	2,859	547,611
Non-Labor Subtotal		73,060
B. Field Construction Manager Services		
Execute CMP	Jun -Dec 2021 (7 months)	
Senior CM Facilities (TEC)	176	38,724
CM Facilities (TEC)	1,100	241,956
CM Pipelines (FCM)	1,200	263,978
Labor Subtotal	2,476	544,658
C. Owner's Field Representative Services		
Construction Preparation (Familiarity, Training, etc)	1 month prior to NTP	
Pipe Lead Field Representative (South)	160	24,800
Pipe Lead Field Representative (North)	160	24,800
WTP Lead Field Representative	160	28,800
BPS Lead Field Representative	160	28,800
Facility Quality Manager	160	26,624
Facility - Welding and Coatings Field Rep	-	-
Facility Electrical Field Representative	-	-
Facilities - I&C Field Representative	-	-

EXHIBIT A
Estimate of Costs

	2021	
	<u>Hr - total</u>	<u>Fee</u>
WTP Field Observation and Reporting	Aug -Dec 2021 (5 months)	
WTP Lead Field Representative	1,000	180,014
Facility Quality Manager	72	11,981
Facility - Welding and Coatings Field Rep	-	-
Facility Electrical Field Representative	160	28,800
Facilities - I&C Field Representative	-	-
BPS Field Observation and Reporting	Sep -Dec 2021 (4 months)	
BPS Lead Field Representative	800	143,993
Facility Quality Manager	56	9,318
Facility - Welding and Coatings Field Rep	-	-
Facility Electrical Field Representative	160	28,800
Facilities - I&C Field Representative	-	-
Delivery Points Field Observation and Reporting	Unknown TBD	
BPS Lead Field Representative	-	-
BPS Electrical Field Representative	-	-
Facility Quality Manager	-	-
Senior Pipeline Field Oversight	Jul -Dec 2021 (6 months)	
Tunnel Field Representative	460	57,358
Pipe Lead Field Representative (South)	900	139,469
Pipe Lead Field Representative (North)	900	139,469
RWI Field Observation and Reporting	Aug -Dec 2021 (5 months)	
Inspector	300	34,507
Segment A Field Observation and Reporting	Aug -Dec 2021 (5 months)	
Inspector	300	34,507
Segment B Field Observation and Reporting	Oct -Dec 2021 (3 months)	
Inspector	-	-
Segment C Field Observation and Reporting	Not started	
Inspector	-	-
Segment D Field Observation and Reporting	Nov -Dec 2021 (2 months)	
Inspector	-	-
Segment E Field Observation and Reporting	Not started	
Inspector	-	-
Labor Subtotal	5,907	942,040
D. Commissioning Services		
Program-Wide Commissioning and Startup Oversight	Aug -Dec 2021 (5 months)	
Facility - Commissioning and Startup Manager	-	-
Labor Subtotal	-	-
TOTALS		
Labor Total	11,244	2,034,310
Non-Labor Total		73,060
Estimated Direct Expenses (2% of Labor)		40,686
Grand Total		2,148,056

EXHIBIT B CMI Organization Chart

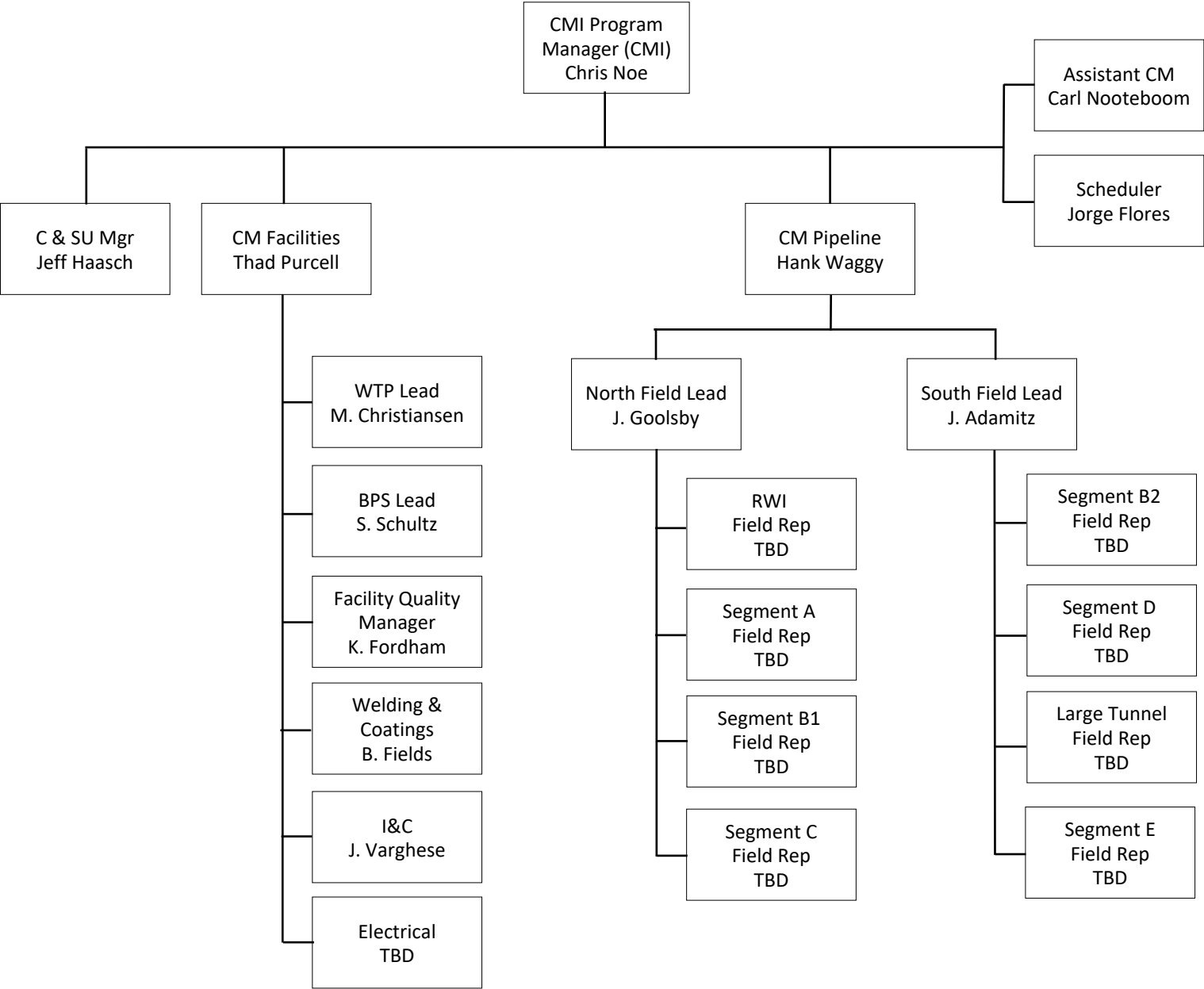


EXHIBIT C
Estimated Staffing for 2021

	NTP	2021 Estimated Hours by Month								
		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
A. Program Construction Manager Services										
Develop, Implement and Execute CMP										
CMI Program Manager (PD)	Chris Noe	80	80	80	80	80	80	40		520
Assistant CM (PD)	Carl Nooteboom	160	200	200	200	200	200	100		1,260
Scheduler (FCM)	Jorge Flores			120	120	120	120	60		540
Administrative (PD)	Gabriele Dooley	40	40	40	40	40	40	20		260
Develop, Implement and Maintain EDMS										
SharePoint Tech (PD)	Shaun Smith	160	80	8	8	8	8	8		280
B. Field Construction Manager Services										
Execute CMP										
Senior CM Facilities (TEC)	Jonathan Tran	80	16	16	16	16	16	16		176
CM Facilities (TEC)	Thad Purcell		200	200	200	200	200	100		1,100
CM Pipelines (FCM)	Hank Waggy	100	200	200	200	200	200	100		1,200
C. Owner's Field Representative Services										
Construction Preparation (Familiarity, Training, etc)										
Pipe Lead Field Representative (West)	Jason Adamitz		160							160
Pipe Lead Field Representative (East)	James Goolsby		160							160
WTP Lead Field Representative	Mark Christiansen		160							160
BPS Lead Field Representative	Stephanie Schultz			160						160
Facility Quality Manager	Kirkland Fordham		160							160
Facility - Welding and Coatings Field Rep	Billy Fields									-
Facility Electrical Field Representative	TBD									-
Facilities - I&C Field Representative	Josh Varghese									-
WTP Field Observation and Reporting										
		Aug-21								
WTP Lead Field Representative	Mark Christiansen			200	200	200	200	200		1,000
Facility Quality Manager	Kirkland Fordham			16	16	16	16	8		72
Facility - Welding and Coatings Field Rep	Billy Fields									-
Facility Electrical Field Representative	TBD					40	60	60		160
Facilities - I&C Field Representative	Josh Varghese									-
BPS Field Observation and Reporting										
		Sep-21								
BPS Lead Field Representative	Stephanie Schultz				200	200	200	200		800
Facility Quality Manager	Kirkland Fordham				16	16	16	8		56
Facility - Welding and Coatings Field Rep	Billy Fields									-
Facility Electrical Field Representative	TBD						80	80		160
Facilities - I&C Field Representative	Josh Varghese									-
Delivery Points Field Observation and Reporting										
		Nov-21								
BPS Lead Field Representative	Stephanie Schultz									-
BPS Electrical Field Representative	TBD									-
Facility Quality Manager	Kirkland Fordham									-
Senior Pipeline Field Oversight										
Tunnel Field Representative	TBD				80	200	80	100		460
Pipe Lead Field Representative (West)	Jason Adamitz			200	200	200	200	100		900
Pipe Lead Field Representative (East)	James Goolsby			200	200	200	200	100		900
Field Observation and Reporting										
RWI Field Observation and Reporting (1)	TBD	Aug-21			See note (1)		200	100		300
Segment A Field Observation and Reporting (1)	TBD	Aug-21			See note (1)		200	100		300
Segment B Field Observation and Reporting (2)	TBD	Nov-21			See note (2)		-	-		-
Segment C Field Observation and Reporting	TBD	Mar-22			No work in 2021					-
Segment D Field Observation and Reporting (2)	TBD	Nov-21			See note (2)		-	-		-
Segment E Field Observation and Reporting	TBD	Feb-22			No work in 2021					-
D. Commissioning Services										
Program-Wide Commissioning and Startup Oversight										
		Aug-21								
Facility - Commissioning and Startup Manager	Jeff Haasch									-
TOTALS										11,244

Notes

(1) Lead will Cover of Aug - Oct

(2) Lead will cover Nov - Dec

EXHIBIT D
2021 HOURLY RATES

Key Staff		Range (\$/Hr)	
Principal In Charge		\$300	
Project Manager (CMI)		\$230	
Construction Manager		\$220	
Assistant Construction Manager		\$210	\$215
Commissioning Manager		\$265	
Full-Time Inspectors ⁽¹⁾		Range (\$/Hr)	
Pipeline (Senior)		\$155	\$170
Pipeline (Junior)		\$110	\$120
Facility - Building/Structural/Mechanical		\$180	\$205
Facility - Quality Manager		\$160	\$180
As-Needed Inspectors ⁽²⁾		Range (\$/Hr)	
Electrical / I&C		\$200	\$220
CWI/Coatings		\$155	\$175
Cathodic Protection		\$190	\$220
Process Equipment		\$180	\$205
Support		Range (\$/Hr)	
Scheduler		\$190	\$200
Administrative		\$100	\$110
SharePoint Manager		\$150	\$170
SharePoint Tech		\$110	\$130
Document Control		\$85	\$100
Notes			
(1) Rates include costs for vehicle, per diem, and lodging			
(2) Mileage, vehicle, and lodging costs may be charged for this group at standard allowable rates			

REGULAR MEETING
Alliance Regional Water Authority Board of Directors

BOARD MEMBER PACKETS

Wednesday, May 26, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 604 612 920#

- I.6** Consider adoption of Resolution 2021-05-26-005 authorizing the Executive Director to amend the agreement with HDR, Inc. in an amount not-to-exceed \$7,500 for an Interim Water Rate Study for water shared between the City of San Marcos and Crystal Clear Special Utility District. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

In April 2021 Crystal Clear Special Utility District requested 600 acre-feet per year of interim water from the City of San Marcos. The water is expected to be provided through a physical interconnect, which is different than the recent agreement between San Marcos and County Line SUD. As a result a new water rate reflecting the use of San Marcos's transmission and distribution system must be prepared.

HDR has prepared the previous two interim water rate studies. Due to their recent work on the rate study and familiarity with San Marcos budget, Staff is requesting authorization to negotiate an amendment to the HDR agreement to provide for the new water rate. Based on preliminary discussion with HDR, the additional effort to include development of the rate and preparation of a small report is not expected to exceed \$7,500. The effort is expected to take less than three weeks to complete.

Board Decision(s) Needed:

- Adoption of Resolution 2021-05-26-005 authorizing the Executive Director to amend the agreement with HDR, Inc. in an amount not-to-exceed \$7,500 for an Interim Water Rate Study for shared water between the City of San Marcos and Crystal Clear SUD.



ALLIANCE WATER

RESOLUTION NO. 201210526-005

A RESOLUTION OF THE ALLIANCE REGIONAL WATER AUTHORITY BOARD OF DIRECTORS AUTHORIZING THE EXECUTIVE DIRECTOR TO AMEND THE INTERIM WATER RATE STUDY AGREEMENT WITH HDR, INC. IN AN AMOUNT NOT-TO-EXCEED \$7,500 AND RELATED MATTERS, AND DECLARING AN EFFECTIVE DATE

RECITALS:

1. Alliance Regional Water Authority (the "Authority") entered into a letter agreement with HDR, Inc. ("HDR") for an Interim Water Rate Study (the "Study") in December 2020.

2. HDR completed the Study in March 2021.

3. In April 2021 Crystal Clear Special Utility District requested 600 acre-feet per year of water for use in the Interim Period from the City of San Marcos.

4. A water rate must be established for the shared water based on a cost recovery basis. Alliance Water Staff would like to utilize HDR to complete the study based on their familiarity with previous such work for Alliance Water. Based on discussions with HDR, the effort is not expected to exceed \$7,500.

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

SECTION 1. The Executive Director is authorized to negotiate and execute an amendment to the letter agreement with HDR for an Interim Water Rate Study to include the water shared by San Marcos with Crystal Clear SUD.

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

ADOPTED: May 26, 2021.

ATTEST:

Chris Betz
Chair, Board of Directors

James Earp
Secretary, Board of Directors