

**Alliance Regional Water Authority
Technical Committee**

REGULAR MEETING



ALLIANCE WATER

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

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

Meeting ID: 896 9982 2817

Passcode: 257788

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

A quorum of Alliance Regional Water Authority's (the Authority's) Technical Committee will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, January 17, 2024. The public may participate in this meeting by calling the following number and code:

ZOOM MEETING LINK

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

Meeting ID: 896 9982 2817

Passcode: 257788

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 January 17, 2024. 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. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.)

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held November 8, 2023. ~ *Graham Moore, P.E., Executive Director*

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Toby Flinn, P.E., Pape-Dawson Engineers*

F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

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- F.3 Presentation, discussion and possible direction to Staff regarding the Operations and Maintenance Rate & Cost Allocation Study. ~ *Chris Ekrut, New Gen Strategies*
- F.4 Update and possible direction to Staff regarding bids received on the Phase 1B Segment C Pipeline construction project. ~ *Graham Moore, P.E., Executive Director*
- F.5 Discussion and possible recommendation to the Board regarding approval of Work Order #8 with Pape-Dawson Consulting Engineers, LLC for Construction Management & Inspection Services on the Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
- F.6 Possible direction to Staff regarding the selection of Kimley-Horn and Associates, Inc. for engineering design for the Carrizo Water System. ~ *Graham Moore, P.E., Executive Director*
- F.7 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*
- G. EXECUTIVE DIRECTOR REPORT - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
- I. EXECUTIVE SESSION
 - I.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*

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- I.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*

J. ADJOURNMENT

NOTE: *The Technical Committee 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 Technical Committee 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

<u>NAME</u>	<u>PRESENT</u>
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Blake Neffendorf

Vacant

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

<u>NON-VOTING MEMBERS</u>	<u>PRESENT</u>
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Mayor Lee Urbanovsky

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C. PUBLIC COMMENT PERIOD

Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.

Comments are limited to 3-minutes per agenda item and three minutes total for all non-agenda topics. If using a translator, comments are limited to six minutes per agenda item and six minutes total for non-agenda topics.

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D. CONSENT AGENDA

Item D.1 is presented as part of the consent agenda.

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D.1 Consider approval of minutes of the Technical Committee Meeting held November 8, 2023. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2023 11 08 Technical Committee Meeting Minutes

Technical Committee decision needed:

- Approval of minutes.



ALLIANCE WATER

Alliance Regional Water Authority

TECHNICAL COMMITTEE MEETING

MINUTES

Wednesday, November 8, 2023

The following represents the actions taken by the Technical Committee of the Alliance Regional Water Authority (Alliance Water) in the order they occurred during the meeting. The Technical Committee convened in a meeting on Wednesday, November 8, 2023 by telephonic conference call.

A. CALL TO ORDER.

The Alliance Water Technical Committee Meeting was called to order at 3:09 p.m. by Mr. Ramos.

B. ROLL CALL.

- **Present: Kite, Ramos, Samford and Franke with Neffendorf joining in Item F.2. Ms. Franke left in Item F.2.**
- **Absent: Vacancy and Urbanovsky.**

C. PUBLIC COMMENT PERIOD

- **None.**

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

Note: Item D was taken up out of order at the end of the meeting.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program.

- **Mr. Flinn with Pape-Dawson provided an update on the Phase 1B construction.**
- **No Action.**

- F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program.
- **Mr. Sowa with Kimley-Horn provided an update on the Phase 1B program.**
 - **Mr. Neffendorf asked about the difference in cost between the south inline tank and the north inline tank, not including GBRA's difference in involvement.**
 - **Mr. Sowa stated that the south tank, which is a 1 million gallon bowl, costs \$4.6 million. The north tank, which will be a 1.5 million gallon bowl, is projected to cost \$6.4 million.**
 - **No Action.**
- F.3 Discussion and possible approval of Work Order #8 with Ardurra Group, Inc. for engineering services related to the demolition of buildings on the Water Treatment Plant property located at 362 Wolf Run Road in Rosanky, Texas.
- **Motion to approve Work Order #8 with Ardurra Group, Inc. as presented was made by Mr. Ramos, seconded by Mr. Samford and approved on a 4-0 vote.**
- F.4 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.
- **Mr. Moore provided an update.**
 - **No Action.**

G. EXECUTIVE DIRECTOR REPORT

- **No Action.**

H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS

- **None.**

I. EXECUTIVE SESSION

- I.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

- I.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
 - **No Action.**

Note: Item D was taken out of order.

D. CONSENT AGENDA

- D.1 Consider approval of minutes of the Regular Technical Committee Meeting held October 11, 2023.
 - **Motion to adopt the minutes as presented was made by Mr. Ramos, seconded by Mr. Neffendorf and approved on a 4-0 vote.**

J. ADJOURNMENT

- **Meeting was adjourned at 3:39 p.m. based on the motion by Mr. Ramos, seconded by Mr. Samford and approved on a 4-0 vote.**

APPROVED: _____, 2024

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F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Toby Flinn, P.E., Pape-Dawson Engineers*

Background/Information

Toby Flinn with Pape Dawson will update the Committee on recent construction activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Construction Update – January 5, 2024

Technical Committee Decisions Needed:

- None.



PHASE 1B CONSTRUCTION UPDATE

January 5, 2024

Water Resources | Transportation | Land Development | Surveying | Environmental



PROGRAM CONTRACT VALUES



PROJECT	ORIGINAL CONTRACT PRICE	APPROVED CONTRACT MODIFICATIONS	CURRENT CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,349,675.00	\$862,792.00	\$55,212,467.00	\$46,685,590.92	\$8,526,876.08	84.56%
BPS	\$19,759,331.00	\$484,295.69	\$20,243,626.69	\$16,735,345.34	\$3,508,281.35	82.67%
Seg A	\$49,471,384.71	\$256,865.79	\$49,728,250.50	\$47,319,717.09	\$2,408,533.41	95.16%
Seg B	\$37,629,104.42	\$4,590,094.45	\$42,219,198.87	\$40,829,953.35	\$1,389,245.52	96.71%
Seg D	\$46,663,969.35	\$165,669.36	\$46,829,638.71	\$38,638,633.59	\$8,191,005.12	82.51%
Seg E	\$27,277,770.46	\$46,511.91	\$27,324,282.37	\$8,008,732.99	\$19,315,549.38	29.31%
EST	\$4,573,000.00	\$7,545.00	\$4,580,545.00	\$3,775,515.00	\$805,030.00	82.43%

WTP/RWI - Progress Photos



WTP – Duct Bank K-K Concrete Placement



WTP – Duct Bank Concrete Placement



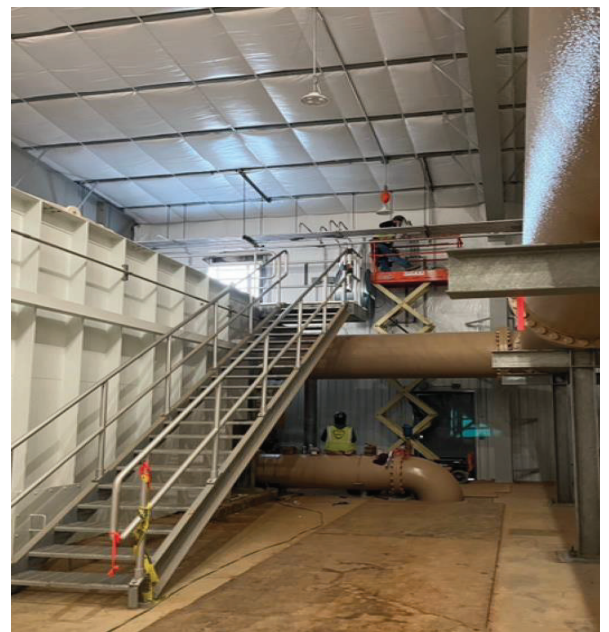
WTP – Duct Bank M-M Flow Fill in Trench

5

Water Treatment Plant / Raw Water Infrastructure (Archer Western / Walker Partners)

Next Month - Projected Construction Activities

- Installation of electrical duct bank and underground conduit.
- Conduit installation at the Filter Complex and HSPS.
- Excavate Pond C and construct berm.
- Entrance road subgrade preparation and limestone base installation.
- Continue concrete paving placement.
- Install Chem piping.
- Interior insulation, liner fabric and liner panels at the Filter Complex.
- Installation of HVAC.
- Continue coating repair at Filter Complex.
- FRP ribbon curb for asphalt paving.
- Pressure testing 48" PWL.
- Install light poles.
- Install rapid mix cover plates.
- Install Well pump.



WTP – Filter Complex Conduit Rough-in

Booster Pump Station (MWH / Freese and Nichols)

Construction Status

- Installed light poles.
- Installed lighting in electrical building.
- CRWA #4 leak investigation.
- CRWA #1 fence installed.
- Continued PS slab repairs.
- SM #1 installed chlorine drain line.
- CRWA #3 installed ductbank.
- Completed lighting in electrical building.
- Continued PS slab repairs.
- Continued heat trace install.



BPS – Chlorine Analyzer Drain Line

BPS- Progress Photos



BPS – Installing Base Material for Access Road



BPS – Road Base Install for Access Road



BPS – Density Test for Base Road

Booster Pump Station (MWH / Freese and Nichols)

Next Month - Projected Construction Activities

- Continue heat trace install.
- Begin pump station testing.
- Continue PS slab repair.
- Make tie in at San Marcos delivery point.
- Continue entrance install.
- Continue working at CRWA delivery point.
- Install site security.
- NETA testing.
- Install grounding at PS.

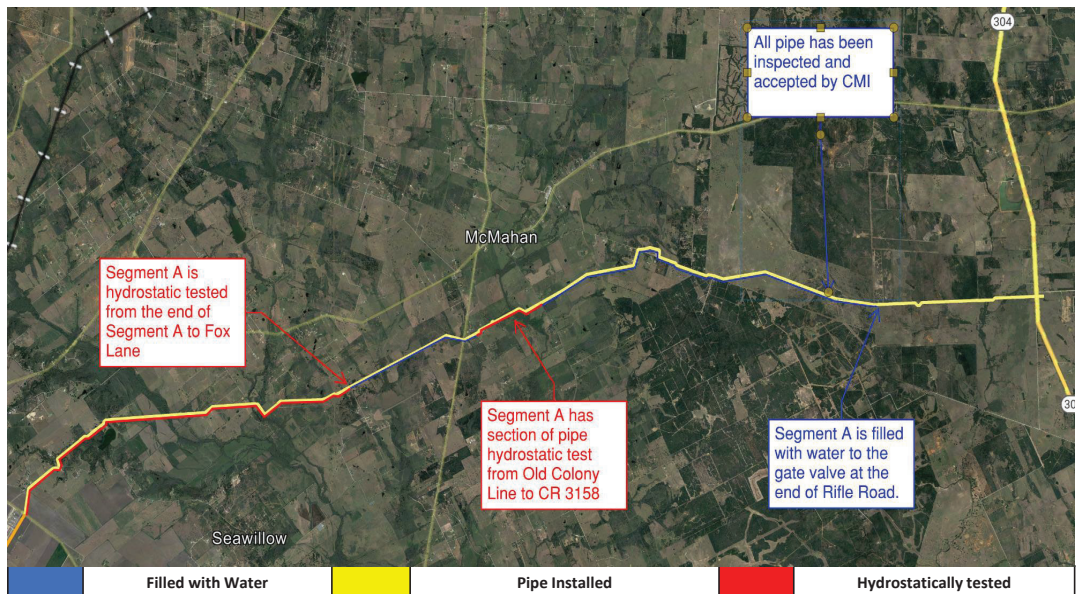


BPS – Under slab Beam Repair

Segment A (Garney Construction / LAN)

Construction Status	
ROW Cleared	100%
Pipe Delivered	100%
Tunnels Completed	100% (15 of 15)
Pipe Installed	100%
Major Crossing (Plum Creek)	100%

Filling and Pressure Testing	
Filling of Segment A	92%
Hydrostatic Testing	43%



Segment A – Progress Photos



Seg A – Begin Testing of Section 5



Seg A – Complete Testing of Section 5



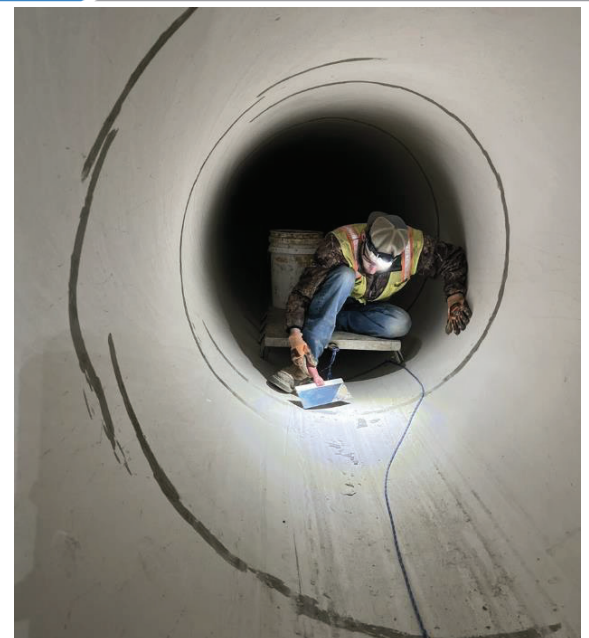
Seg A – Section 5 Passes

11

Segment A (Garney Construction / LAN)

Next Month - Projected Construction Activities

- Perform maintenance on all county roads and private roads being used for construction operations.
- Continue haul-off excess native material, final grading of topsoil, and final build out of CAV assemblies.
- J7 services will continue installing permanent gates and permanent entrances.
- Conduct bi-weekly meeting.
- Continue hydrostatically testing pipeline.
- Continue fiber conduit installation on Segment B1 and continue blowing in fiber through conduit on Segment A.



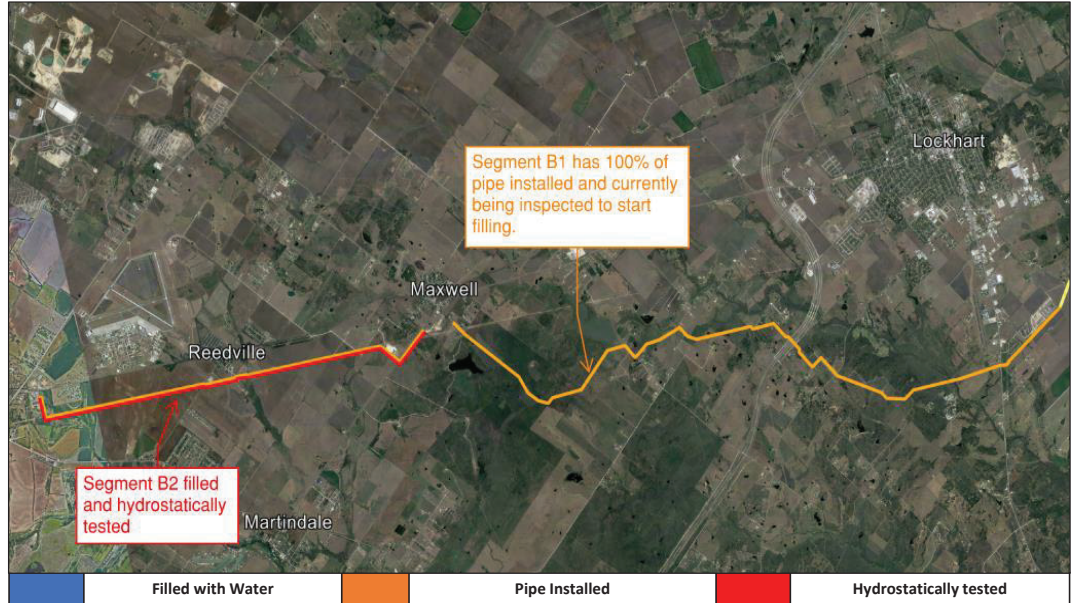
Seg A - Debris Cleanup

12

Segment B (Garney Construction / K Friese)

Construction Status	
ROW Cleared	100%
Pipe Delivered	100%
Tunnels Completed	100%
Pipe Installed on Segment B	100%
Pipe Installed on Segment D-B	100%
Pipe Installed on Segment D-C	0%

Filling and Pressure Testing	
Filling of Segment B	36%
Hydrostatic Testing B	36%
Filling of Segment D	0%
Hydrostatic Testing D	0%
Filling of Segment D-C	0%
Hydrostatic Testing D-C	0%

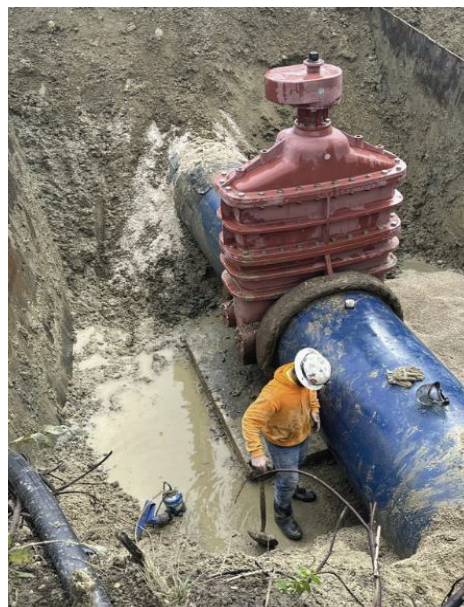


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SEGMENT B - PROGRESS PHOTOS



Seg B – Vacuuming Debris from SH-130 Tunnel



Seg B – Cleaning Gate Valve by SH-130



Seg B – Setting Lid on SH-130

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Segment B (Garney Construction / K Friese)

Next Month - Projected Construction Activities

- Garney Resources
 - Hauling off excess spoils from project site and spreading topsoil.
 - Installing DV and CAVs.
 - Cleaning interior of pipe for final CMI inspections.
 - Correcting deflected pipe identified by CMI staff.
- Tunnels
 - 4 of 4 (100%) completed on CP002 scope of work added to segment B contract.
 - Tunnel is completed.
 - Asphalt repair complete.
- Conduct bi-weekly meeting.

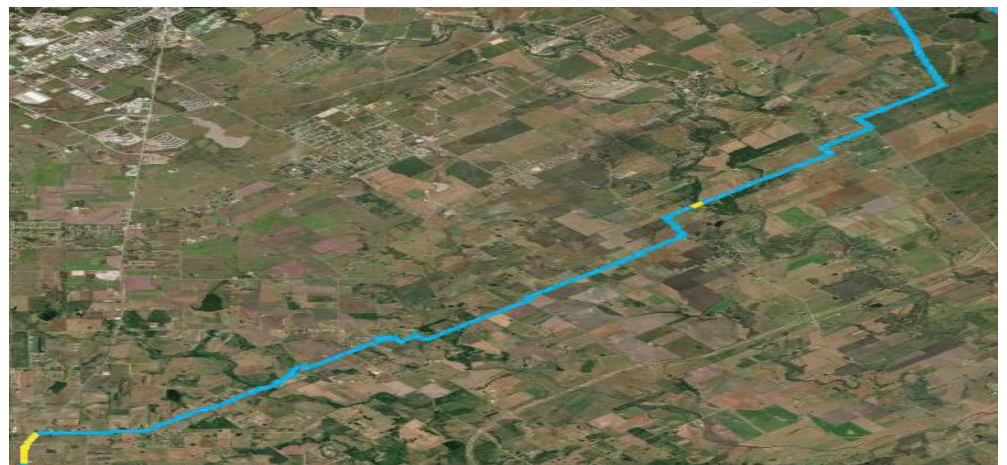


Segment B – Offloading Precast Off of Railroad Street

Segment D (SJ Louis / Freese & Nichols)

Construction Status

- Not Started
- ROW Cleared
- Pipe Delivered
- Pipe Installed
- Complete



Activity	Status
ROW Cleared	100%
Pipe Delivered	100%
Tunnels Completed	100%
Pipe Installed	98%
Major Crossing (San Marcos River Crossing)	45%

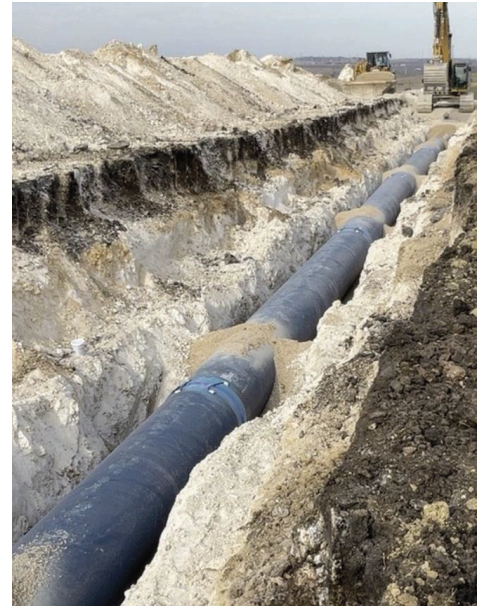
Segment D – Progress Photos



Seg D – Shorebox Install



Seg D – Pipe Placement



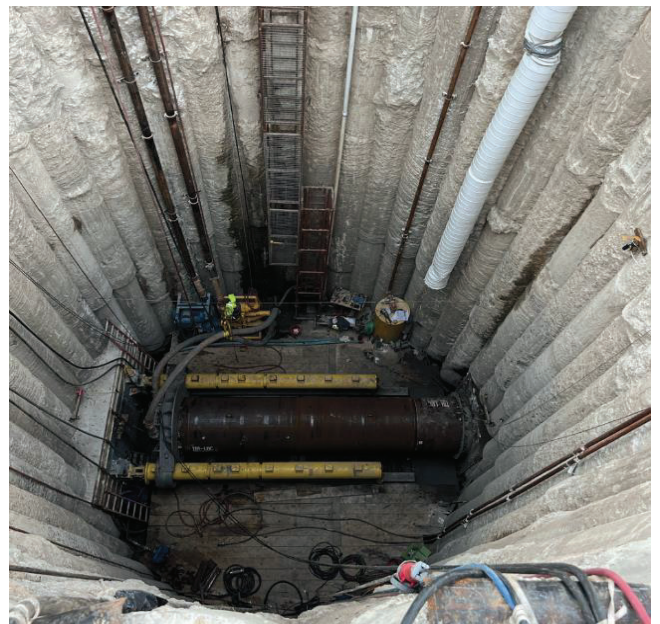
Seg D – Pipe Installation

17

Segment D (SJ Louis / Freese & Nichols)

Next Month - Projected Construction Activities

- Processing documentation in SharePoint.
- Conduct next bi-weekly progress meeting
- Continue pipe installation with two pipe crews.
- Continue installing precast at CAV and drain valve locations behind the pipe installation operations.
- Resume cleaning and grouting interior of pipe for final CMI inspections.
- Tunnels
 - 18 of 18 (100%) Sundance continue work at HWY 123.
- Major Crossings
 - San Marcos River Crossing – 45% complete.



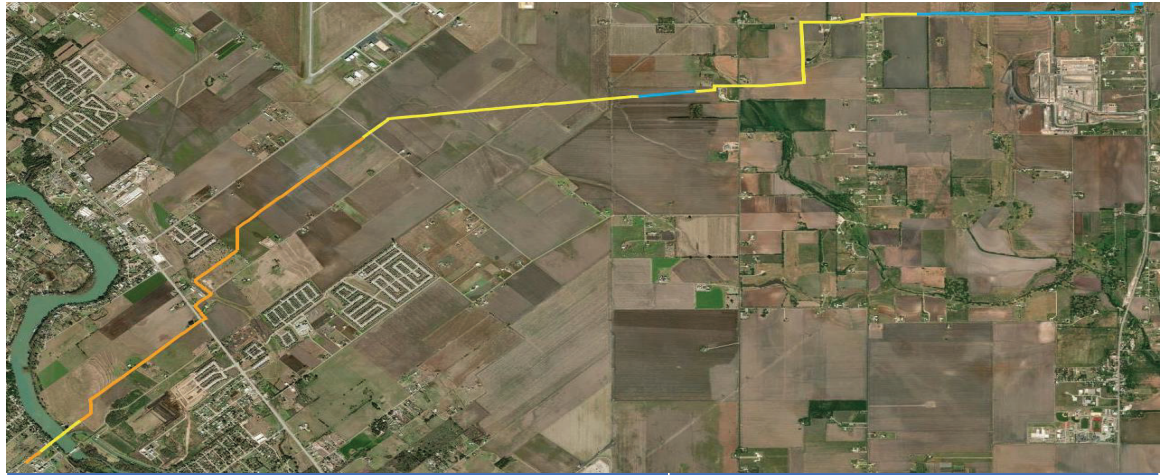
Seg D – Micro tunnel Shaft

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Segment E (Garney / Walker Partners)

Construction Status

- Not Started
- ROW Cleared
- Pipe Delivered
- Pipe Installed
- Complete



Activity	Status
ROW Cleared	100%
Pipe Delivered	58%
Tunnels Completed	100% (10 of 10)
Pipe Installed	12%
Major Crossing (Lake Dunlap)	HDD Pipe Welded and Inspected by CWI

Segment E – Progress Photos



Seg E – HDD Pipe



Seg E – Welding HDD Pipe



Seg E – Preparing Pipe for Epoxy

Segment E (Garney / Walker Partners)

Next Month - Projected Activities

- Processing documentation in SharePoint.
- Conduct bi-weekly progress meeting.
- Continue pipe installations on E1 laying pipe south towards the NBU delivery point.
- Tunnels
 - 10 of 10 Auger Bore (100% Completed).
 - 3 of 10 Open Cut Casing (30% Completed).
- Major Crossings
 - Lake Dunlap crossing has not started.
 - Pipe delivered, welded, and coating to be finished the week of 1/8/24
 - Tunneling crews projected to mobilize onto the site 1/15/24.



Seg E – Testing HDD Pipe

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Elevated Storage Tanks Landmark / Plummer

Construction Activities

- Viking Paint and Landmark looked at the cosmetic tank paint issues and will be addressing this prior to raising the tank.
- Landmark completed additional staking needs for the electrical duct banks on the site.
- Landmark completed the seeding of the neighbor's property.

Next Month - Projected Activities

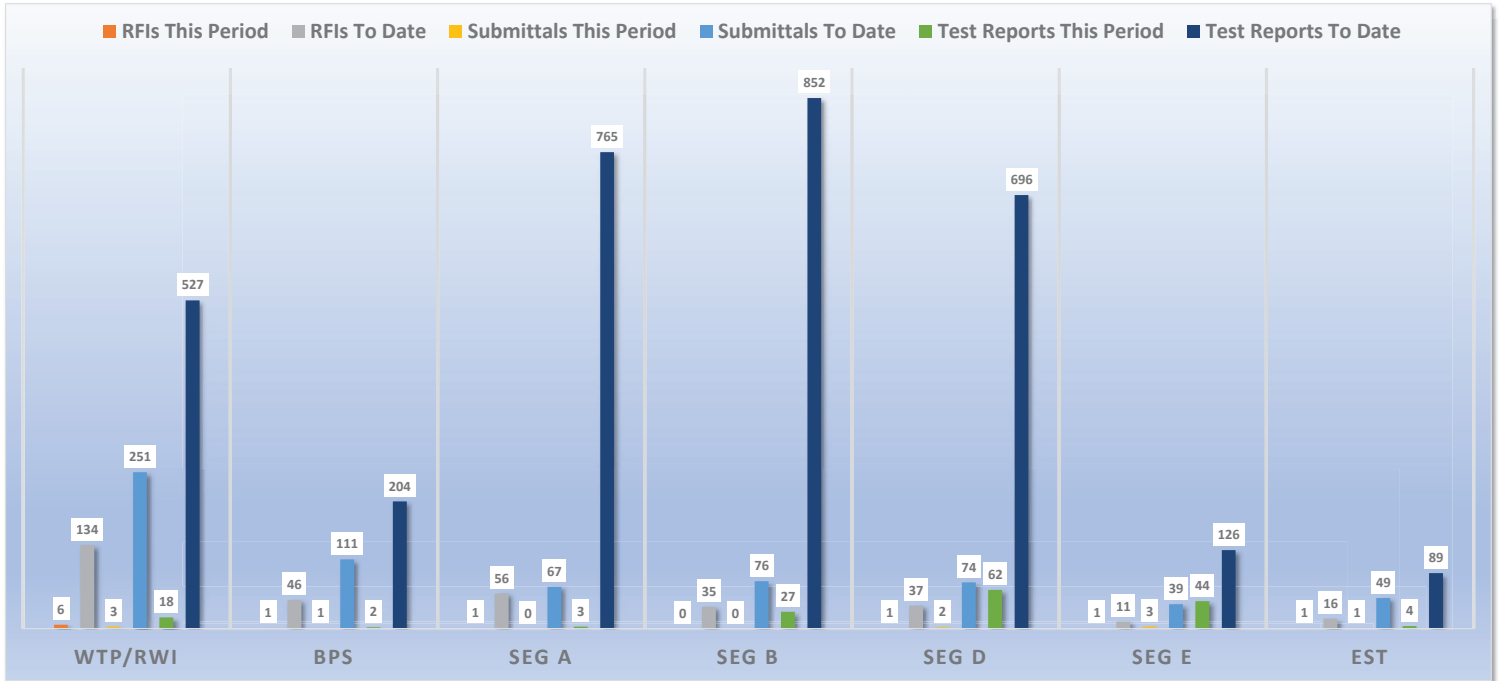
- Viking paint crew will be looking to fix cosmetic paint issues this next period prior to raising the tank.
- Electrical Duct Bank Scheduled to start installation starting January 3rd 2024.
- Finish site grading and backfill for waterline / drainage easement, will wait to seed until later in year.
- Working on 24-Inch DI waterline required submittals prior to remobilizing to install.



EST – Rolling on Final Coat of Paint

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PROGRAM OVERSIGHT RECAP



QUESTIONS?

REGULAR MEETING
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COMMITTEE MEMBER PACKETS

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- F.2** Update and possible direction to Staff regarding the Authority's Phase 1B program.
~ *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 – January 17, 2024
- Kimley-Horn Monthly Summary of Activities for December 2023

Technical Committee Decisions Needed:

- None.



Phase 1B Program Update

Technical Committee Meeting
January 17, 2024



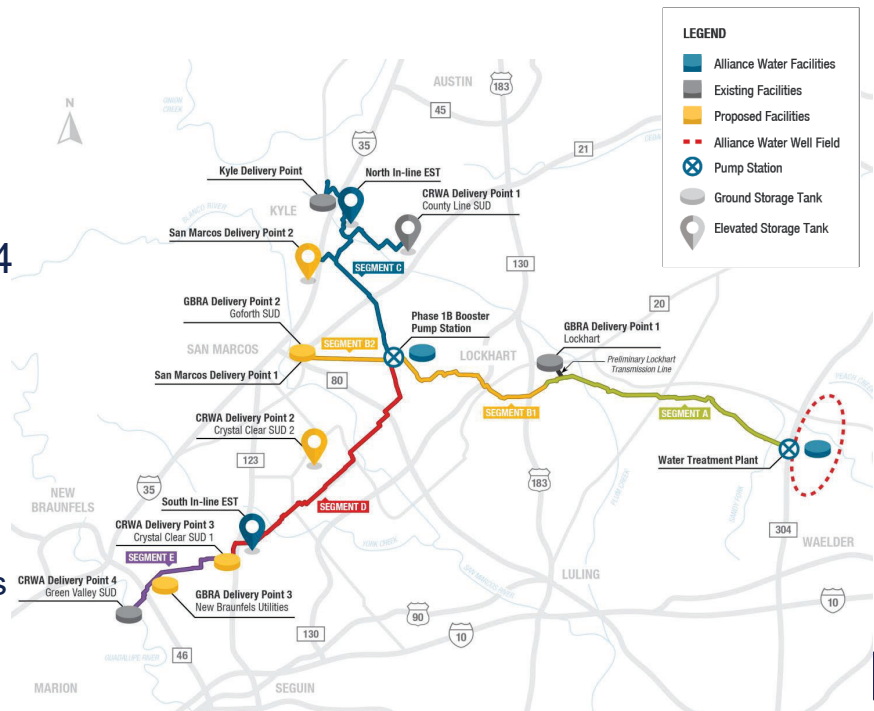
ALLIANCE WATER

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

Ongoing Progress

- ▶ Segment C Procurement
 - Advertise – 12/6
 - Pre-Proposal Meeting – 12/14
 - Proposals Received – 01/15
 - Board Approval - January

- ▶ TWDB Reviews
 - South Inline EST
 - Plans and Specs – Approved
 - Construction – Release of Funds Request – Awaiting Approval



Pipeline Easement Acquisition Status

Pipeline Segment	Number of Parcels	STATUS						Final Settlement Outstanding
		(A) Appraisal/Offer in Development	(B) Negotiation	(C) = (A+B) Appraisal / Negotiation	(D) Condemnation in Process	(E) = (C+D) Possession Still Needed	(F) Purchase Agreement Signed / Possession Obtained	
A	39	0	0	0	0	0	39	4
B	47	0	0	0	0	0	47	14
D	60	0	0	0	0	0	60	15
C	76	3	5	8	2	10	66	32
E	36	0	0	0	0	0	36	11
Well Field	16	0	4	4	0	4	12	4
Total	274					14	260	80



COST UPDATES BASED ON FEBRUARY MILESTONE SUBMITTALS/RESULTS

		PREVIOUS*	REVISED	
Construction Package		ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
Submittal (%) Combined Program Infrastructure				
Const.	Water Treatment Plant	\$ 31,400,000	\$ 31,400,000	\$ 0
Const.	Booster Pump Station & GBRA Meter Stations	\$ 14,000,000	\$ 14,000,000	\$ 0
Const.	Inline EST (South)	\$ 4,500,000	\$ 4,500,000	\$ 0
Const.	Pipeline Segment A	\$ 31,000,000	\$ 31,000,000	\$ 0
Const.	Pipeline Segment B	\$ 38,000,000	\$ 38,000,000	\$ 0
Const.	Pipeline Segment D	\$ 49,200,000	\$ 49,200,000	\$ 0
Const.	Pipeline Segment E	\$ 17,800,000	\$ 17,800,000	\$ 0
	Subtotal	\$185,900,000	\$185,900,000	\$ 0
ARWA-Only Infrastructure				
Closed	Well Drilling	\$ 3,300,000	\$ 3,300,000	\$ 0
Const.	Raw Water Infrastructure	\$ 11,400,000	\$ 11,400,000	\$ 0
Const.	ARWA Booster Pump Station & Delivery Points	\$ 5,200,000	\$ 5,200,000	\$ 0
60	Inline EST (North)	\$ 7,200,000	\$ 7,200,000	\$ 0
95	Pipeline Segment C	\$101,800,000	\$101,800,000	\$ 0
Const.	Pipeline Segment E (ARWA-Only)	\$ 15,300,000	\$ 15,300,000	\$ 0
No Design	Administration and Operations Building	\$ 4,200,000	\$ 4,200,000	\$ 0
	Subtotal	\$148,400,000	\$148,400,000	\$ 0
	Total	\$334,300,000	\$334,300,000	\$ 0

*Previous budget updated as of December 2023



Questions?

January 12, 2024

Project Monthly Summary

December 2023 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.
 - Prepare and present the Technical Committee Meeting Update.
 - Prepared and presented the Project Advisory Committee Meeting Update.
 - Prepared and presented the Board Meeting Update.
 - Prepared for and held Monthly Status Meeting with Alliance Water.
- Task 3 – Budgeting
 - Prepared and presented the monthly update for the Technical Committee and Board meetings.
 - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
- Task 4 – Schedule
 - Integrated each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.
- Task 6 – Data Management
 - Continued tracking the number of easements with final settlement outstanding.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.
- Task 7 – Environmental Management
 - Continued coordination between Program Environmental Consultant and Design Engineers.
- Task 8 – Land Acquisition Management
 - *Continued negotiations with remaining Segment C parcels.*
 - Coordinated the appraisal process for Segments C and W parcels as needed.
 - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition legal 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 legal team.

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

- Weekly coordination meeting with Legal Land Acquisition team to discuss status of easement acquisition proceedings and to provide Program clarification on any questions/requests that have come from landowners.
- Reviewed Program Appraiser and Program Survey invoices.
- Continued field work coordination to notify landowners of upcoming field work by consultants as needed.

- Task 9 – Texas Water Development Board Management
 - Coordinated with TWDB staff to track the status of funding release requests as well as plans and specifications under review.
 - Continued coordination with ARWA, GBRA, and TWDB Staff to track all documents currently under review.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continued coordination with Design Consultant for construction phase services.
 - Segment C
 - *Reviewed 100% Submittal and provided comments to the Design Consultant.*
 - Continued coordination with Design Consultant for final design.
 - Continued coordination with Design Consultant regarding ongoing pipeline alignment considerations.
 - Segment D
 - Continue coordination with Design Consultant for construction phase services.
 - Segment E
 - Continue coordination with Design Consultant for construction phase services.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continued coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Coordinated with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Continued coordination with Design Consultant for construction phase services for the South Inline Elevated Storage Tank.

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

- Continued coordination with Design Consultant for final design development for the North Inline Elevated Storage Tank.
 - 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 14 – Permit Coordination/Tracking
 - Continued Permit coordination with Pipeline Consultants.
 - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continued coordination with Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
 - Continued General Coordination with GVEC, BBEC, and LCRA.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - *Coordination with Segment C Design Consultant and ARWA for Segment C Procurement.*
 - On-going coordination with WTP, RWI, BPS, Segment A, Segment B, Segment D, Segment E, and South Inline EST Design Consultants during the construction phase.
 - Continued coordination with the Construction Management & Inspection team.
- Task 16 – Other Services
 - *Responded to City of San Marcos comments for the submitted City of San Marcos Watershed Protection Plan for the parcels to be platted near the Booster Pump Station.*
- Task 18 – Environmental Construction Services
 - Attended construction status meetings.
 - Performed migratory bird nesting surveys.

January 2024 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 Meeting 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.

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

- Task 3 – Budgeting
 - *Support ARWA staff in the continued budget presentation updates to the Technical Committee and Board Meetings.*
 - Prepare and present the monthly update for the Technical Committee and Board meetings.
 - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.

- Task 6 – Data Management
 - Continue tracking the number of easements with final settlement outstanding.
 - Continue coordination with ARWA and Construction Management & Inspection Team to integrate construction data collected on the new GIS WebMap.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continue updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Continue coordination between Program Environmental Consultant and Design Engineers.

- Task 8 – Land Acquisition Management
 - *Continue negotiations with remaining Segment C parcels.*
 - Coordinate the appraisal process for Segment C and W parcels.
 - Coordinate with Program Survey Consultant and Design Consultants to address questions that arise as part of the field work coordination process.
 - Perform weekly QC of parcel files in SharePoint, provide comments to Legal Land Acquisition team.
 - Weekly coordination meeting with Legal Land Acquisition to discuss status of easement acquisition proceedings and to provide Program clarification on any questions/requests that have come from landowners.
 - Review Program Appraiser and Program Survey invoices.
 - Continue field work coordination to notify landowners of upcoming field work by consultants as needed.

- Task 9 – Texas Water Development Board Management
 - *Coordinate with Program PM and Design Consultants to prepare additional Funding Release documentation.*

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

- Continue coordination with ARWA, GBRA, and TWDB Staff to track all documents currently under review as well as preparation of funding release requests.
- Task 10 – Design Standards
 - Review Construction Standards given questions arising from construction activities and coordinate with the Program Design Consultants as needed.
- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continue coordination with Design Consultant for construction phase services.
 - Segment C
 - *Continue coordination with Design Consultant for procurement.*
 - Segment D
 - Continue coordination with Design Consultant for construction phase services.
 - Segment E
 - Continue coordination with Design Consultant for construction phase services.
 - Raw Water Infrastructure:
 - Continue coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continue coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Continue coordination with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Continue coordination with Design Consultant for construction phase services for the South Inline Elevated Storage Tank.
 - Continue coordination with Design Consultant for final design development for the North Inline Elevated Storage Tanks.
 - 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.

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

- 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.
 - Continue General Coordination with GVEC, BBEC, and LCRA.
 - On-going Permit Tracking Log Updates.

- Task 15 – Procurement and Construction Phase Services
 - *Coordination with Segment C Design Consultant and ARWA for Segment C Procurement.*
 - On-going coordination with WTP, RWI, BPS, Segment A, Segment B, Segment D, Segment E, and South Inline Elevated Storage Tank Design Consultants during the construction phase.
 - On-going coordination with the Construction Management & Inspection team.

- Task 16 – Other Services
 - *Receive and address any remaining comments for the City of San Marcos Watershed Protection Plan for the parcels to be platted near the Booster Pump Station.*
 - *Ongoing GBRA WTP Expansion option evaluation and cost projection development.*

- Task 18 – Environmental Construction Services
 - Attend construction status meetings.
 - Perform migratory bird nesting surveys.

Scope Elements Added/Removed:

None at this time.

Outstanding Issues/Concerns:

None at this time.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.3** Presentation, discussion and possible direction to Staff regarding the Operations and Maintenance Rate & Cost Allocation Study. ~ *Chris Ekrut, NewGen Strategies*
-

Background/Information

The Authority entered into an Agreement with NewGen Strategies and Solutions, LLC to develop the Operations and Maintenance Rate for operations of the Authority's Carrizo Water System. Chris Ekrut from NewGen Strategies will attend the meeting and provide a presentation on their process for developing the O&M rate and cost allocations and to receive direction from the Committee. The contract provides for four presentations on the rate study: one each to the Technical Committee and Project Advisory Committee and two to the Board of Directors.

Attachment(s)

- NewGen Presentation dated January 17, 2024

Technical Committee Decisions Needed:

- Possible direction to Staff regarding the Operations and Maintenance Rate & Cost Allocation Study.



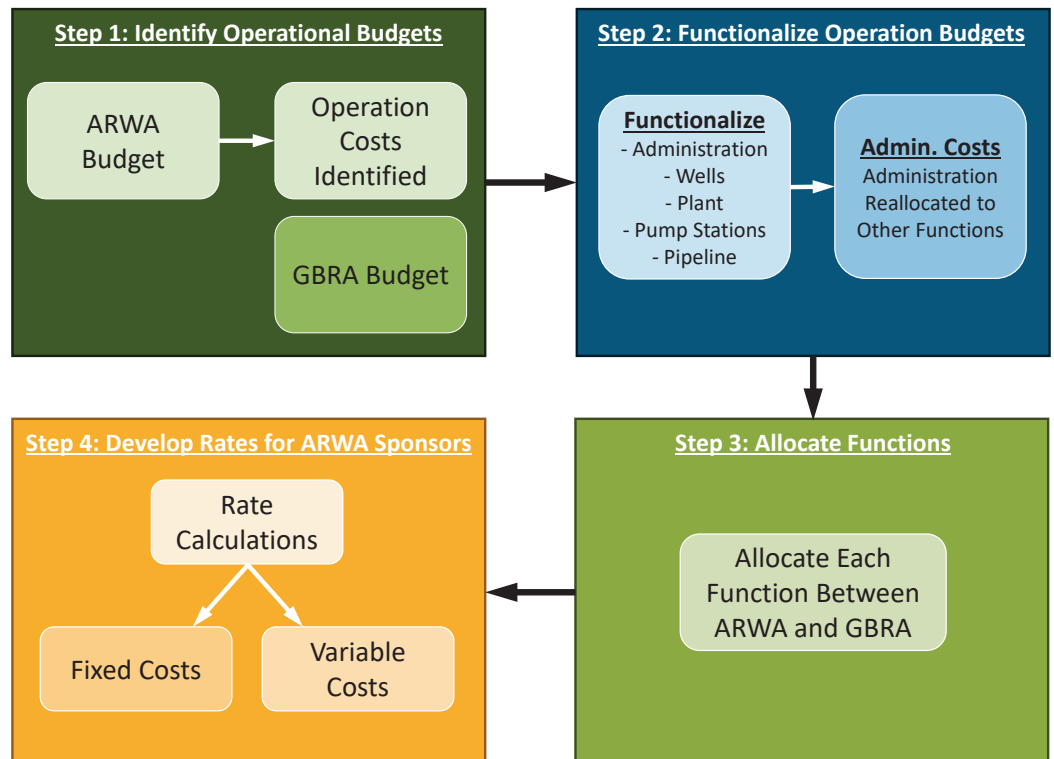
January 17, 2024

ALLIANCE REGIONAL WATER AUTHORITY RATE AND COST ALLOCATION STUDY



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METHOD



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OPERATIONAL BUDGETS

(Step 1)

	Budget	Non-Operational Budget	Operational Budget
GBRA Budget			
Personnel	\$ 600,694	\$ 0	\$ 600,694
Services	1,511,893	0	1,511,893
Other Expenses	68,791	0	68,791
Maintenance & Repairs	81,575	0	81,575
Administrative & General	141,088	0	141,088
Capital Outlay	195,000	0	195,000
Subtotal	\$ 2,599,041	\$ 0	\$ 2,599,041
ARWA Budget			
Personnel	\$ 535,693	\$ 434,125	\$ 101,567
Subtotal	\$ 535,693	\$ 434,125	\$ 101,567
Total	\$ 3,134,734	\$ 434,125	\$ 2,700,608

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FUNCTION FACTORS

(Step 2)

	Admin.	Wells	Plant	Pump Station	Pipeline
GBRA Budget					
Labor ¹	0.0%	1.5%	65.0%	7.0%	26.5%
Vehicles ¹	0.0%	0.0%	35.0%	32.5%	32.5%
Auto & Heavy Equip. ¹	0.0%	5.1%	87.2%	5.1%	2.6%
Power ¹	0.0%	17.2%	63.8%	17.3%	1.6%
Insurance ¹	0.0%	4.1%	77.6%	6.8%	11.5%
O&M Expenses ²	0.0%	4.5%	79.6%	6.7%	9.2%
A&G Expenses ²	0.0%	1.5%	65.0%	7.0%	26.5%
Plant & Well Field ²	0.0%	5.3%	94.7%	0.0%	0.0%
ARWA Budget					
Personnel	93.4%	0.7%	4.0%	1.3%	0.7%
Expenses ²	93.4%	0.7%	4.0%	1.3%	0.7%
Operator ³	0.0%	10.0%	60.0%	20.0%	10.0%

1 – Provided by GBRA

2 – Composite Factor that Varies Between Each Year

3 – Provided by ARWA

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FUNCTIONALIZATION RESULTS (STEP 2)

	Admin.	Wells	Plant	Pump Station	Pipeline	Total
GBRA Budget	\$ 0	\$ 112,454	\$ 2,047,844	\$ 175,744	\$ 263,000	\$ 2,599,041
ARWA Budget	94,871	670	4,018	1,339	670	101,567
Subtotal	\$ 94,871	\$ 113,123	\$ 2,051,862	\$ 177,083	\$ 263,670	\$ 2,700,608
Admin. Reallocation	(94,871)	4,119	74,705	6,447	9,600	0
Total	\$ 0	\$ 117,242	\$ 2,126,567	\$ 183,530	\$ 273,269	\$ 2,700,608
<i>Fixed</i>	\$ 0	\$ 37,339	\$ 986,824	\$ 102,591	\$ 263,663	\$ 1,390,416
<i>Variable</i>	0	79,903	1,139,743	80,939	9,606	1,310,192

ALLOCATION

(Step 3)

- Wells
 - Per ARWA, 100% of Wells are for ARWA
- Treatment Plant
 - Per ARWA, 40.65% of Plant Capacity is for ARWA
- Pump Stations
 - Composite of Pump Stations and Elevated Storage Tanks Based on Capacities
- Pipelines
 - Composite of Inch-Feet of Pipeline Segments

ALLOCATION

(Step 3)

	Wells	Plant	Pump Station	Pipeline	Total
GBRA %*	0%	59%	34%	26%	
ARWA %*	100%	41%	66%	74%	
Fixed Costs					
GBRA	\$ 0	\$ 585,680	\$ 35,145	\$ 69,073	\$ 689,897
ARWA	37,339	401,144	67,446	194,590	700,519
Total	\$ 37,339	\$ 986,824	\$ 102,591	\$ 263,663	\$ 1,390,416
Variable Costs					
GBRA	\$ 0	\$ 744,632	\$ 27,728	\$ 2,517	\$ 774,877
ARWA	79,903	395,111	53,212	7,090	535,315
Total	\$ 79,903	\$ 1,139,743	\$ 80,939	\$ 9,606	\$ 1,310,192
Total Costs					
GBRA	\$ 0	\$ 1,330,312	\$ 62,873	\$ 71,589	\$ 1,464,744
ARWA	117,242	796,255	120,657	201,680	1,235,834
Total	\$ 117,242	\$ 2,126,567	\$ 183,530	\$ 273,269	\$ 2,700,608

*Only applied to fixed costs. Variable split based on projected volumes.

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RATE CALCULATION (STEP 4)

- Two Part Rate
 - Variable Rate Per 1,000 Gallons of Projected Volumes
 - Power & Chemical Costs
 - Fixed Rate Per Ac-Ft of Capacity
 - All Other Costs

RATE CALCULATION

(Step 4)

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
ARWA						
Fixed Cost	\$ 700,519	\$ 728,765	\$ 758,237	\$ 789,182	\$ 821,297	\$ 843,849
Ac-Ft ¹	33,212	33,212	33,212	33,212	33,212	33,212
Fixed \$/Ac-Ft	\$ 21.09	\$ 21.94	\$ 22.83	\$ 23.76	\$ 24.73	\$ 25.74
Variable Cost						
Variable Cost	\$ 535,315	\$ 714,272	\$ 913,821	\$ 1,036,613	\$ 1,306,844	\$ 1,721,336
Kgal ²	949,000	1,278,318	1,626,776	1,801,557	2,253,327	2,956,995
Variable \$/Kgal	\$ 0.56	\$ 0.56	\$ 0.56	\$ 0.58	\$ 0.58	\$ 0.58
GBRA						
Fixed Cost	\$ 689,897	\$ 718,217	\$ 747,733	\$ 778,307	\$ 810,356	\$ 843,849
Ac-Ft ³	15,000	15,000	15,000	15,000	15,000	15,000
Fixed \$/Ac-Ft	\$ 45.99	\$ 47.88	\$ 49.85	\$ 51.89	\$ 54.02	\$ 56.26
Variable Cost						
Variable Cost	\$ 774,877	\$ 872,990	\$ 1,003,463	\$ 1,136,894	\$ 1,292,426	\$ 1,470,601
Kgal ²	1,788,500	1,965,620	2,205,724	2,441,568	2,708,500	3,004,615
Variable \$/Kgal	\$ 0.43	\$ 0.44	\$ 0.45	\$ 0.47	\$ 0.48	\$ 0.49

1 – Per Regional Water Supply Contract

2 – Per ARWA Staff projections

3 – Per Water Treatment and Delivery Agreement

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TWO-PART RATE CALCULATION – FIXED PORTION (STEP 4)

	% of Capacity	Wells	Plant	Pump Station	Pipeline	Total
Buda	5%	\$ 1,897	\$ 20,376	\$ 3,426	\$ 9,884	\$ 35,583
CRWA	31%	11,535	123,923	20,836	60,114	216,407
Kyle	28%	10,517	112,992	18,998	54,811	197,319
San Marcos	36%	13,390	143,852	24,186	69,781	251,210
Total	100%	\$ 37,339	\$ 401,144	\$ 67,446	\$ 194,590	\$ 700,519
<i>\$/Ac-Ft</i>		<i>\$ 1.12</i>	<i>\$ 12.08</i>	<i>\$ 2.03</i>	<i>\$ 5.86</i>	<i>\$ 21.09</i>

TWO-PART RATE CALCULATION – VARIABLE PORTION (STEP 4)

	Projected Volumes (kgal)	Wells	Plant	Pump Station	Pipeline	Total
Buda	0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
CRWA	401,500	33,805	167,162	22,513	3,000	226,480
Kyle	0	0	0	0	0	0
San Marcos	547,500	46,098	227,949	30,699	4,090	308,836
Total	949,000	\$ 79,903	\$ 395,111	\$ 53,212	\$ 7,090	\$ 535,315
<i>\$/kgal</i>		<i>\$ 0.08</i>	<i>\$ 0.42</i>	<i>\$ 0.06</i>	<i>\$ 0.01</i>	<i>\$ 0.56</i>

Note: Projected volumes were estimated by ARWA staff.

SUMMARY

Fixed & Variable	Wells	Plant	Pump Station	Pipeline	Total
ARWA Sponsors					
Buda	\$ 1,897	\$ 20,376	\$ 3,426	\$ 9,884	\$ 35,583
CRWA	45,340	291,085	43,348	63,113	442,887
Kyle	10,517	112,992	18,998	54,811	197,319
San Marcos	59,488	371,801	54,885	73,871	560,045
Subtotal	\$ 117,242	\$ 796,255	\$ 120,657	\$ 201,680	\$ 1,235,834
GBRA	\$ 0	\$ 1,330,312	\$ 62,873	\$ 71,589	\$ 1,464,774
Grand Total	\$ 117,242	\$ 2,126,567	\$ 183,530	\$ 273,269	\$ 2,700,608

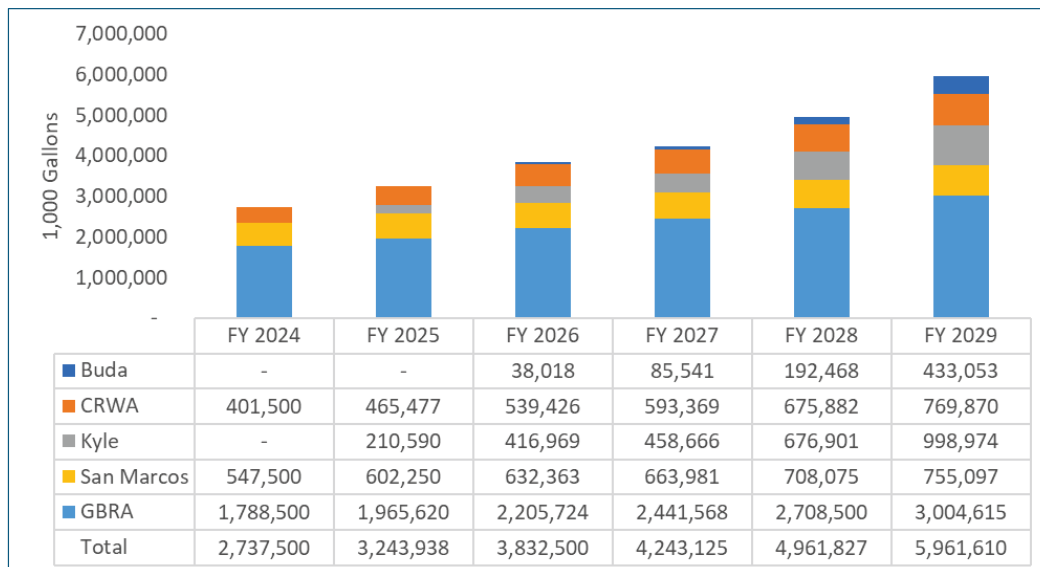


QUESTIONS AND DISCUSSION

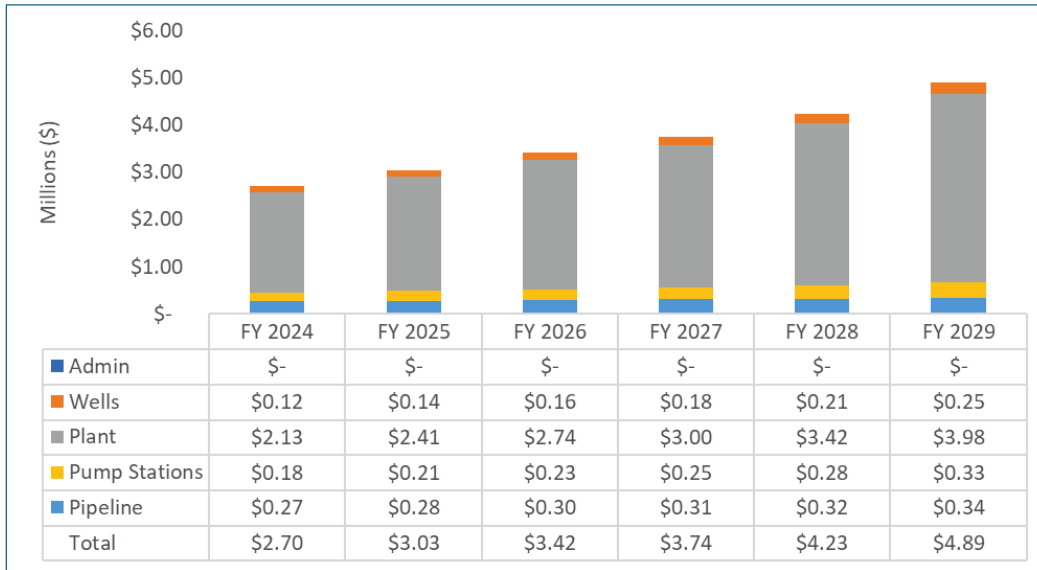
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CHRIS EKRU, CFO AND DIRECTOR
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 CEKRUT@NEWGENSTRATEGIES.NET

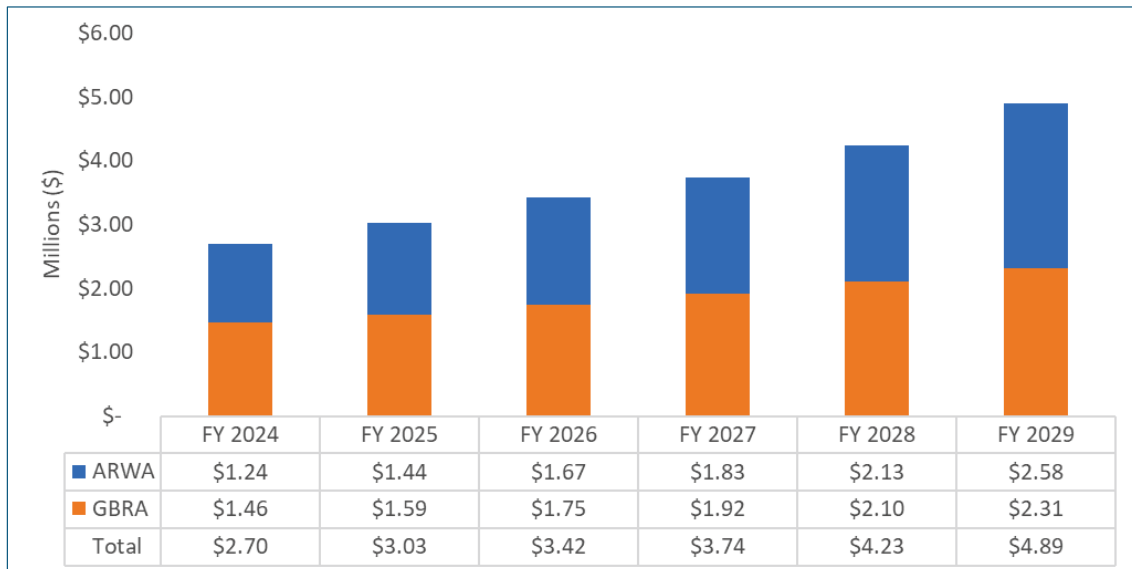
PROJECTED VOLUMES



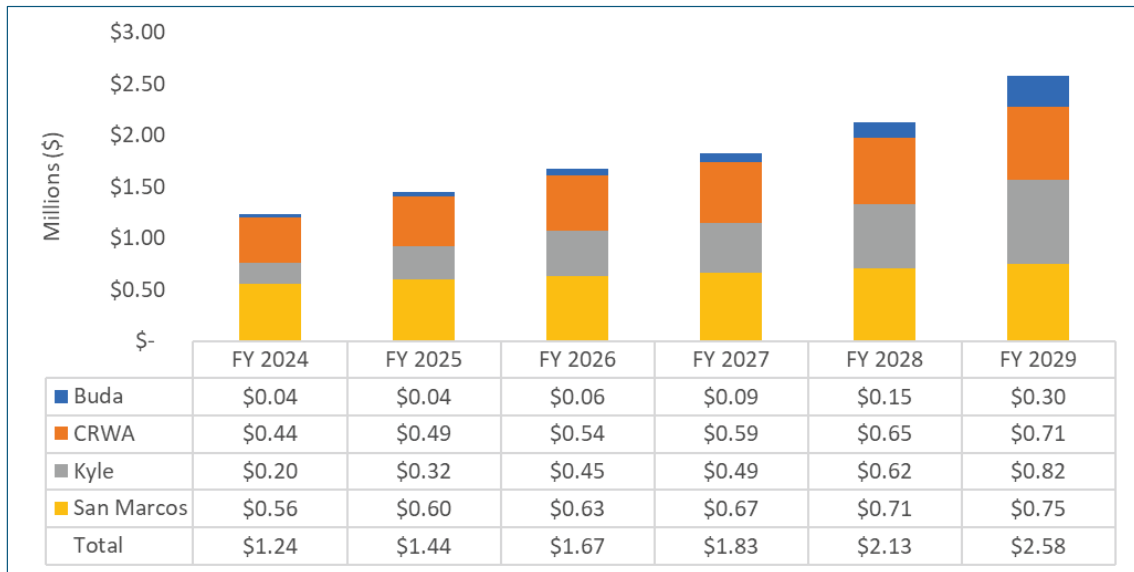
FUNCTIONALIZATION (STEP 2)



ALLOCATION (STEP 3)



ANNUAL COST SUMMARY (STEP 4)



REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.4** Update and possible direction to Staff regarding bids received on the Phase 1B Segment C Pipeline construction project. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The Segment C Pipeline Project is scheduled to have its proposal opening on Monday, January 15th. As a reminder the Authority is utilizing Competitive Sealed Proposals for construction solicitations so cost and qualifications are both reviewed. Staff will provide an update on the bid amounts to the Technical Committee while Staff is reviewing and scoring the proposals in accordance with the matrix included in the bid documents.

Technical Committee Decisions Needed:

- Possible direction to Staff regarding the Phase 1B Segment C Project.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.5** Discussion and possible recommendation to the Board regarding approval of Work Order #8 with Pape-Dawson Consulting Engineers, LLC for Construction Management & Inspection Services on the 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. The prior three years the Authority has issued work orders to Pape-Dawson for Construction Management and Inspection on the Phase 1B Program through the end of each year. These same services are needed in 2024 as construction continues on seven projects (the Water Treatment Plant, the Booster Pump Station, South Inline EST and Pipeline Segments A, B, D and E) and as construction is anticipated to start on Segment C and the North Inline EST.

The Executive Director negotiated the attached scope and fee for the construction management and inspection services. The work order has been structured to last the entirety of 2024. Conservative dates and staffing have been estimated for the completion of the seven existing construction projects.

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 maintain the electronic document tracking system and maintaining construction trailers at the treatment plant and booster pump station.

Staff anticipates at least one more work order for construction management and inspection work to get through the completion of all construction.

Below are some of the key facts regarding the proposal:

Firm: Pape-Dawson Engineers, Inc.
Fee: \$4,888,880.00
Work Order Type: Hourly Rate, Not-to-Exceed
Anticipated Duration: 12 months
Project Manager: Toby Flinn, P.E.
Key Subconsultants: TEC Consulting & JH Engineering

Staff is requesting a recommendation to the Board to approve Work Order #8 with a fee not-to-exceed \$4,888,880.00.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Attachment(s)

- ARWA Phase 1B CM&I Proposal for 2023 dated January 8, 2024

Technical Committee Decision Needed:

- Possible recommendation to the Board to approve a work order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Phase 1B Program for 2024.

January 8, 2024

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

Re: ARWA Phase 1B CM&I – Work Order #8

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.
- *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 make recommendations to the Design Consultant for approval or rejection.
 - 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 provide a recommendation to the Design Consultant as to the acceptability of 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.

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 crew per heading and one crew per facility. The time frames are 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 2024.*
- *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.*

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 **\$4,888,880.00** 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 Consulting Engineers, LLC



Chris Noe, P.E.
Managing Vice President, Project Delivery



Cara C. Tackett, P.E.
Managing Principal, Water Resources

Attachments

- Exhibit A – Estimate of Costs
- Exhibit B – CMI Organization Chart
- Exhibit C – Estimated Staffing Matrix for 2024
- Exhibit D – 2024 Hourly Rate Schedule

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EXHIBIT A
Estimate of Costs

ARWA1B	2024	
	<u>Hr - total</u>	<u>Fee</u>
A. Program Construction Manager Services		
Develop, Implement and Execute CMP		
CMI Program Manager	540	\$ 162,000
Assistant CM	1,190	\$ 255,850
Startup & Commissioning CM	2,150	\$ 473,000
Design Lead (EST)	100	\$ 20,000
Administrative	240	\$ 29,040
Develop, Implement and Maintain EDMS		
SharePoint Document Control Manager/GIS	1,100	\$ 187,000
Provide Field Observation Platform		
Autodesk Build	1	\$ 22,000
GPS Equipment	6	\$ 12,000
Provide Temporary Field Offices		
WTP Trailer (Rent/mo)	8	\$ 13,763
WTP Utilities (Monthly)	8	\$ 1,760
WTP Trailer (Teardown)	1	\$ 6,820
BPS Trailer (Rent)	12	\$ 22,070
BPS Utilities	12	\$ 2,640
B. Field Construction Manager Services		
Execute CMP		
CM Facilities	1,320	\$ 304,920
CM Pipelines	2,760	\$ 637,560
CM EST	375	\$ 86,625
C. Owner's Field Representative Services		
WTP Field Observation and Reporting		
WTP Lead Field Representative	1,780	\$ 325,740
BPS Field Observation and Reporting		
BPS Lead Field Representative	660	\$ 120,780
Segment A Field Observation and Reporting		
Inspector	660	\$ 112,200
Segment B Field Observation and Reporting		
Inspector	660	\$ 112,200
Segment C Field Observation and Reporting		
Inspector	1,540	\$ 261,800
Inspector	1,980	\$ 336,600
Inspector	1,540	\$ 261,800
Segment D Field Observation and Reporting		
Inspector	660	\$ 112,200
Inspector	1,100	\$ 187,000
Segment E Field Observation and Reporting		
Inspector	1,100	\$ 187,000
Inspector	1,540	\$ 261,800

EXHIBIT A
Estimate of Costs

ARWA1B	2024	
	<u>Hr - total</u>	<u>Fee</u>
EST Field Observation and Reporting		
Inspector	540	\$ 91,800
Labor Subtotal	13,760	\$ 2,370,920
D. Commissioning Services		
Program-Wide Commissioning and Startup Oversight		
Commissioning and Startup Manager	160	\$ 45,120
Electrical Inspector/Commissioning Specialist IV	600	\$ 138,000
Administrative Manager	22	\$ 3,520
Labor Subtotal	782	\$ 186,640
TOTALS		
Labor Total	24,317	\$ 4,713,555
Non-Labor Total		\$ 81,054
Estimated Direct Expenses (2% of Labor)		\$ 94,271
Grand Total		\$ 4,888,880

EXHIBIT B
CMI Organization Chart

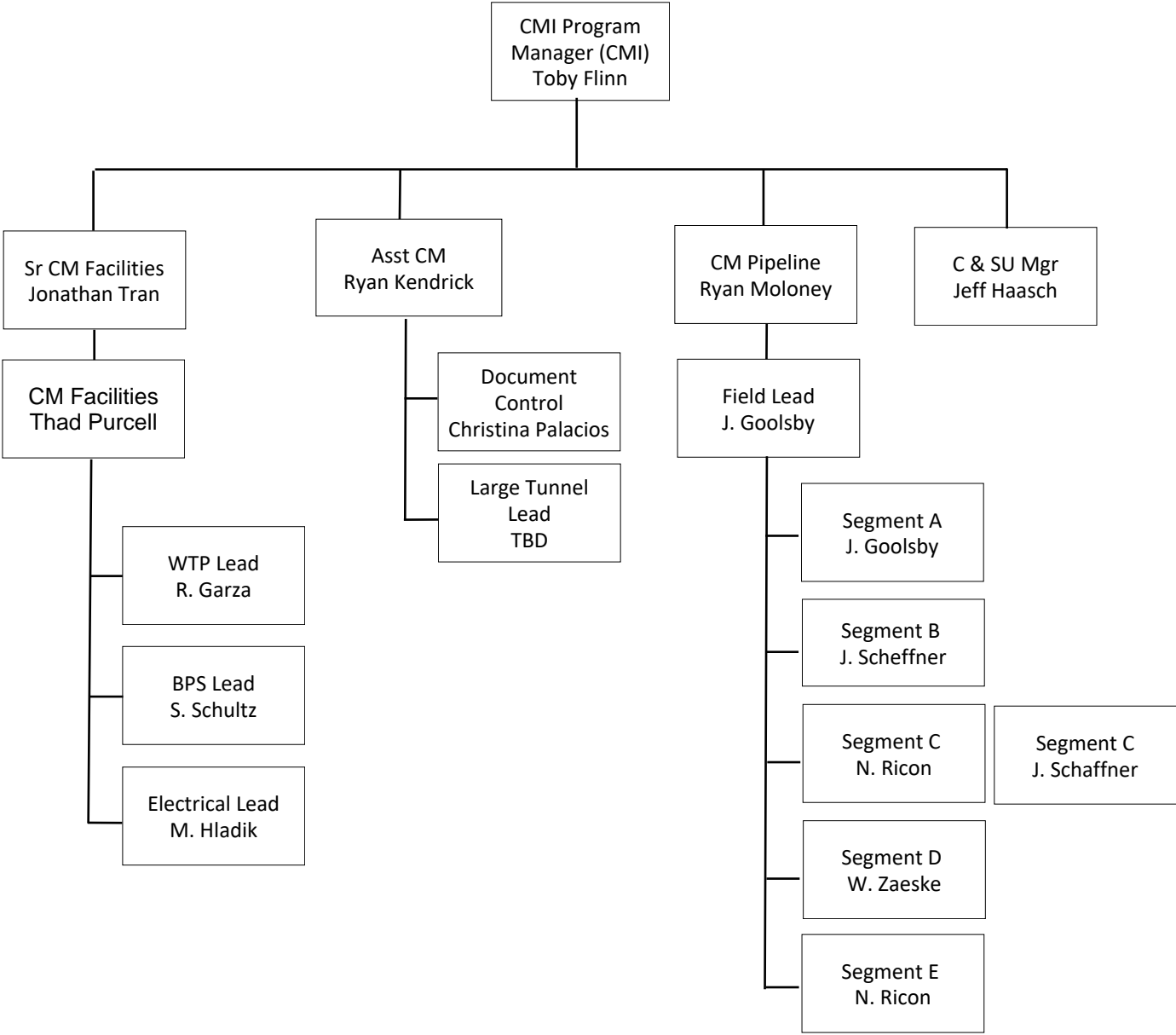


EXHIBIT C - Estiamted Staffing Matrix

		2024												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Hours
A. Program Construction Manager Services														
Develop, Implement and Execute CMP														
CMI Program Manager	Toby Flinn	45	45	45	45	45	45	45	45	45	45	45	45	540
Design Leader (EST)	Lee Niles			20	20	20	20	20						100
Assistant CM (PD)	Jason Adamitz	220	220	220	220	220	60	30	-	-	-	-	-	1,190
Assistant CM (PD)	Ryan Kendrick	200	200	200	200	200	200	200	200	175	175	100	100	2,150
Administrative (PD)	Gabriele Dooley/J.Savage	20	20	20	20	20	20	20	20	20	20	20	20	240
Develop, Implement and Maintain EDMS														
Document Control Manager	Christina Palacios/Sara S.	75	75	75	75	100	100	100	100	100	100	100	100	1,100
B. Field Construction Manager Services														
Execute CMP														
CM Facilities (TEC)	Thad Purcell	220	220	220	220	220	220							1,320
CM Pipeline (PD)	Ryan Moloney	230	230	230	230	230	230	230	230	230	230	230	230	2,760
CM EST (PD)	Ted Nelson	25	25	25	25	40	40	40	25	25	25	40	40	375
C. Owner's Field Representative Services														
WTP Field Observation and Reporting														
WTP Lead Field Representative	Roger Garza	230	230	230	230	230	230	200	200					1,780
BPS Field Observation and Reporting														
BPS Lead Field Representative	Stephanie Schultz	220	220	220	-	-	-	-	-	-	-	-	-	660
Field Observation and Reporting														
Segment A Field Observation and Reporting	James Goolsby	220	220	220	-	-	-	-	-	-	-	-	-	660
Segment B Field Observation and Reporting	Joel Scheffner	220	220	220	-	-	-	-	-	-	-	-	-	660
Segment C Field Observation and Reporting	Norberto Ricon	-	-	-	-	-	220	220	220	220	220	220	220	1,540
Segment C Field Observation and Reporting	Joel Scheffner	-	-	-	220	220	220	220	220	220	220	220	220	1,980
Segment C Field Observation and Reporting	Wade Zeiske	-	-	-	-	-	220	220	220	220	220	220	220	1,540
Segment D Field Observation and Reporting	Eric Vidal	220	220	220	-	-	-	-	-	-	-	-	-	660
Segment D Field Observation and Reporting	Norberto Ricon	220	220	220	220	220	-	-	-	-	-	-	-	1,100
Segment E Field Observation and Reporting	Sean Rademacher	220	220	220	220	220	-	-	-	-	-	-	-	1,100
Segment E Field Observation and Reporting	Wade Zeiske/TBD	220	220	220	220	220	220	220						1,540
Elevated Storage Tanks (North and South)	TBD	45	45	45	45	45	45	45	45	45	45	45	45	540
D. Commissioning Services														
Program-Wide Commissioning and Startup Oversight														
Facility - Commissioning and Startup - Principle Engineer	Jeff Haasch	-	-	40	40	40	40	-	-	-	-	-	-	160
Facility - Commissioning and Startup - Electrical Specialist	Matt Hladik	120	120	120	120	120	-	-	-	-	-	-	-	600
Facility - Commissioning and Startup - Project Management	Mackenzie Philips	-	-	-	-	-	22	-	-	-	-	-	-	22
TOTALS LABOR														24,317

EXHIBIT D 2024 - Hourly Rates

Key Staff		Range (\$/Hr)	
Principal In Charge		\$300	
Project Manager (CMI)		\$230	
Construction Manager		\$231	
Assistant Construction Manager		\$210	\$215
Commissioning Manager		\$282	
Full-Time Inspectors (1)		Range (\$/Hr)	
Pipeline (Senior)		\$155	\$170
Pipeline (Junior)		\$110	\$120
Facility - Building/Structural/Mechanical		\$180	\$205
Facility - Quality Manager		\$160	\$183
As-Needed Inspectors (2)		Range (\$/Hr)	
Electrical / I&C		\$200	\$230
CWI/Coatings		\$155	\$175
Cathodic Protection		\$190	\$220
Process Equipment		\$180	\$205
Tunnel (P.E.)		\$200	\$225
Support		Range (\$/Hr)	
Scheduler		\$190	\$200
Administrative		\$100	\$110
SharePoint Manager		\$150	\$170
SharePoint Tech		\$110	\$130
Document Control Manager		\$130	\$135
Document Control Assistant		\$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 Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.6** Possible direction to Staff regarding the selection of Kimley-Horn and Associates, Inc. for engineering design for the Carrizo Water System. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

Alliance Water and the Guadalupe-Blanco River Authority have been in discussions regarding expansion to the Carrizo Water System. Both ARWA and GBRA would require additional capacity in the Water Treatment Plant and ARWA would also require expansion of the Raw Water System (i.e. well field and raw water lines) and the Maxwell Booster Pump Station. ARWA and GBRA are working on a Memorandum of Understanding regarding the design of the Water Treatment Plant expansion. Both ARWA and GBRA have targeted completion of the construction of the WTP expansion before the summer of 2027.

In order to continue forward and meet the target goal date, ARWA issued a Request for Qualifications for the design of the expansion of the Carrizo Water System, to include the Water Treatment Plant, ARWA Raw Water System and the Maxwell Booster Pump Station. The RFQ was issued on September 26, 2023 with responses due on November 9, 2023. ARWA received two responses which were reviewed and scored by ARWA Staff.

Staff is currently negotiating a scope and fee with Kimley-Horn & Associates for preliminary engineering design of the Water Treatment Plant expansion only. The proposed scope and fee along with a Memorandum of Understanding with GBRA for the design of the WTP expansion will be presented to the Board in January.

Attachment(s)

- Carrizo Water System Design Expansion – RFQ Scoring

Technical Committee Decisions Needed:

- Possible direction to Staff.

**Alliance Regional Water Authority - RFQ 2023-002 Carrizo System
Expansion Design RFQ**

Submittal Information		
ID Number:	1	2
Company Name:	AECOM	Kimley-Horn
Primary Contact:	John Buser	Ryan Sowa
Location:	Austin, TX	San Antonio, TX
	512-454-4797	210-541-8699
Statement of Qualifications		
Team & Quals (out of 120)	104	111
Project Approach (out of 75)	59	69
Past Performance (out of 90)	76	78
HUB Participation (out of 15)	15	14
TOTAL SCORE	254	272
(RANK)	2	1

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.7** 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*
-

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD met on January 9th. The GCUWCD held a public hearing on their Management Plan and ultimately adopted revisions to the plan. They are also embarking on a rule-making process that ARWA will need to monitor. Finally, they considered CRWA's permit amendment request to add 900 acre-feet per year of production from their existing well field. They agreed with the hearing examiner that no entity deserved party status, so the application is not considered to be a contested case. The District has some additional questions about well field monitoring and possibly phasing in of the permit amendment that CRWA will need to resolve with them, prior to official permit issuance.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on January 16th.

Groundwater Management Area 13

GMA-13 is scheduled to meet on February 9th.

Region L Planning Group

No update.

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

No update.

Technical Committee decision needed:

- None.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- G. EXECUTIVE DIRECTOR REPORT** - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*

Consultant Invoices Paid

FY 23-24 CONSULTANT INVOICES PAID IN DECEMBER 2023

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
RW Harden	\$30,000.00	\$4,215.00	\$4,215.00	14%	\$25,785.00	
Kent Alan Sick - ROW Legal	\$10,000.00	\$0.00	\$0.00	0%	\$10,000.00	
Armstrong, Vaughan & Associates, P.C.	\$12,500.00	\$0.00	\$0.00	0%	\$12,500.00	
J.R. Tolles & Associates, Inc.	\$285,000.00	\$41,399.00	\$41,399.00	15%	\$243,601.00	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$6,691.62	\$6,691.62	5%	\$118,308.38	
CD&P - Public Relations	\$75,000.00	\$8,724.04	\$8,724.04	12%	\$66,275.96	
Schlueter Group of Texas, LLC	\$60,000.00	\$15,000.00	\$15,000.00	25%	\$45,000.00	
GBRA - O&M	\$2,599,041.00	\$433,173.50	\$649,760.25	25%	\$1,949,280.75	
Law Offices of Patricia Carls	\$15,000.00	\$765.00	\$765.00	5%	\$14,235.00	
NewGen Strategies & Solutions	\$28,367.50	\$4,495.00	\$4,495.00	16%	\$23,872.50	
Total	\$3,239,908.50	\$514,463.16	\$731,049.91		\$2,508,858.59	

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Phase 1B Invoiced Paid

PHASE 1B FY 23-24 CONSULTANT INVOICES PAID IN NOVEMBER 2023

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
Kimley-Horn Ph 1B Owner's Rep W/O7	\$849,580.61	\$101,188.77	\$0.00	0%	\$849,580.61	
Blanton - Environmental	\$188,827.00	\$0.00	\$0.00	0%	\$188,827.00	
LAN - Segment A Construction	\$249,725.05	\$0.00	\$0.00	0%	\$249,725.05	
KFA - Segment B Final	\$14,733.77	\$0.00	\$0.00	0%	\$14,733.77	
KFA - Segment B Construction	\$294,278.03	\$0.00	\$0.00	0%	\$294,278.03	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$46,801.20	\$0.00	\$0.00	0%	\$46,801.20	
FNI - Segment D Prelim	\$55,904.00	\$0.00	\$0.00	0%	\$55,904.00	
FNI - Segment D Final	\$10.96	\$0.00	\$0.00	0%	\$10.96	
FNI - Segment D Construction	\$155,717.33	\$28,831.81	\$0.00	0%	\$155,717.33	
Walker - Segment E Final	\$2,384.46	\$0.00	\$0.00	0%	\$2,384.46	
Walker - Segment E Construction	\$241,072.44	\$0.00	\$0.00	0%	\$241,072.44	
DTR&G	\$1,500,000.00	\$212,366.78	\$212,366.78	14%	\$1,287,633.22	
CBRE - Appraisals	\$171,034.37	\$0.00	\$0.00	0%	\$171,034.37	
STV / CP&Y - Survey	\$313,074.00	\$0.00	\$0.00	0%	\$313,074.00	
FNI - BPS Final	\$174,925.23	\$0.00	\$0.00	0%	\$174,925.23	
Plummer - Inline Elevated Tank Final	\$157,044.60	\$0.00	\$0.00	0%	\$157,044.60	
Plummer - Inline Elevated Tank Construction	\$46,101.37	\$0.00	\$0.00	0%	\$46,101.37	
Pape-Dawson - CM&I W/O#7	\$1,705,329.06	\$484,889.98	\$484,889.98	28%	\$1,220,439.08	
Walker Partners - WTP CA Svcs	\$707,379.74	\$0.00	\$0.00	0%	\$707,379.74	
LNW/Ardurura - R/WI CA Svcs	\$185,713.32	\$0.00	\$0.00	0%	\$185,713.32	
FNI - BPS CA Svcs	\$67,957.44	\$0.00	\$0.00	0%	\$67,957.44	
CP&Y - SCADA Programming Svcs	\$368,838.45	\$0.00	\$0.00	0%	\$368,838.45	
HVJ - Materials Testing (WTP)	\$240,366.25	\$5,798.00	\$5,798.00	2%	\$234,568.25	
HVJ - Materials Testing (BPS)	\$28,960.00	\$0.00	\$0.00	0%	\$28,960.00	
HVJ - Materials Testing (Segment A)	\$396,169.00	\$27,884.75	\$27,884.75	7%	\$368,284.25	
HVJ - Materials Testing (Segment B)	\$56,002.04	\$21,986.50	\$21,986.50	39%	\$34,015.54	
HVJ - Materials Testing (Segment D)	\$278,559.37	\$37,535.25	\$37,535.25	13%	\$241,024.12	
HVJ - Materials Testing (Segment E)	\$437,136.00	\$18,214.00	\$18,214.00	4%	\$418,922.00	
HVJ - Materials Testing (S Inline EST)	\$98,667.75	\$5,632.25	\$5,632.25	6%	\$93,035.50	
Total	\$9,047,392.08	\$944,328.09	\$814,307.51	9%	\$8,233,084.57	

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Phase 1B Consultant Change Orders

CHANGE ORDERS APPROVED IN DECEMBER 2023				
Consultant	Original Authorization	Change Orders to Date	Change Order Approved this Month	New Total Contract Amount
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00	\$ -	\$ 816,025.00
Freese & Nichols: 1B Segment D (Final)	\$ 1,999,464.00	\$ 418,373.96	\$ -	\$ 2,417,837.96
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 262,949.00	\$ -	\$ 2,166,026.00
K Friese & Assoc: 1B Seg B Final Design	\$ 1,830,994.00	\$ 334,387.13	\$ -	\$ 2,165,381.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 107,570.00	\$ -	\$ 1,526,270.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 317,759.11	\$ -	\$ 1,477,049.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 702,306.00	\$ -	\$ 3,390,616.00
Freese & Nichols: 1B BPS & DP Final	\$ 1,580,519.00	\$ 163,657.00	\$ -	\$ 1,744,176.00
Walker Partners: WTP (CA Svcs)	\$ 1,638,207.00	\$ 371,425.00	\$ 55,884.00	\$ 2,009,632.00
Freese & Nichols: 1B BPS & DP (CA Svcs)	\$ 497,224.00	\$ 32,896.00	\$ -	\$ 530,120.00
LAN: 1B Segment A (CA Svcs)	\$ 486,610.00	\$ 25,000.00	\$ -	\$ 511,610.00
LNV: 1B Raw Water (Const Admin)	\$ 210,345.00	\$ 28,500.00	\$ -	\$ 238,845.00
K Friese & Assoc: 1B Seg B CA	\$ 471,544.00	\$ 10,000.00	\$ -	\$ 481,544.00
Alan Plummer: 1B Inline EST Design	\$ 423,526.00	\$ 92,472.00	\$ -	\$ 515,998.00
HVJ: Seg B Matl Testing (WO4)	\$ 485,483.00	\$ 20,000.00	\$ -	\$ 505,483.00
HVJ: Seg B Matl Testing (WO6)	\$ 392,695.00	\$ 51,350.00	\$ -	\$ 444,045.00

Phase 1B Construction Change Orders

- Below are reports on the change orders to date for the Phase 1B construction contracts.

CONSTRUCTION CHANGE ORDER SUMMARY - DECEMBER 2023							
PROJECT	Original Contract Amount	TOTAL CHANGE ORDERS TO DATE	CURRENT CONTRACT AMOUNT	ARWA SHARE OF CHANGE ORDERS	Exec Director Max Authority	Exec Director Approved Change Orders to Date	Board and/or Tech Cmte Approved Change Order to Date
Water Treatment Plant & Raw Water Infrastructure Booster Pump Station & Delivery Points Contract	\$ 54,349,675.00	\$ 862,792.00	\$ 55,212,467.00	\$ 336,984.77	\$ 516,825.62	\$ 287,297.22	\$ 118,678.52
Segment A Pipeline	\$ 49,471,384.71	\$ 268,234.78	\$ 49,739,619.49	\$ 378,761.16	\$ 424,971.08	\$ (40,293.43)	\$ -
Segment B Pipeline	\$ 37,629,104.42	\$ 4,486,274.66	\$ 42,115,379.08	\$ 3,904,357.36	\$ 538,559.55	\$ 5,954.06	\$ 3,837,145.90
Segment D Pipeline	\$ 46,663,969.35	\$ 298,067.53	\$ 46,962,036.88	\$ 230,681.81	\$ 714,892.01	\$ 10,094.36	\$ -
Segment E Pipeline	\$ 27,277,770.46	\$ 120,177.66	\$ 27,397,948.12	\$ 102,939.87	\$ 444,033.44	\$ -	\$ -
South Inline EST	\$ 4,573,000.00	\$ 7,545.00	\$ 4,580,545.00	\$ 5,779.47	\$ 106,581.24	\$ 5,779.47	\$ -

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

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

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

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

I.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*
-

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 17th, 2024 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

I.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*
-

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

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J. ADJOURNMENT
