

**Alliance Regional Water Authority
Technical Committee**

REGULAR MEETING



ALLIANCE WATER

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572
Code: 870 286 128#

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.
Conference Call Number: 1-903-405-2572; Code: 870 286 128#

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) Technical Committee will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, July 14, 2021. The public may participate in this meeting by calling the following number and code:

Conference Call Number: 1-903-405-2572
Code: 870 286 128#

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 July 14, 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. 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 June 9, 2021. ~ *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 the Authority's Phase 1B program. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

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- F.2 Discussion and possible recommendation to the Board regarding the Agreement between GVEC and ARWA for the Distribution Lines and Supply to the ARWA WTP and Well Sites 7, 8 & 9. ~ *Graham Moore, P.E., Executive Director*
- F.3 Discussion and possible recommendation to the Board regarding a Master Agreement and initial Work Order with HVJ Associates for Materials Testing for the Water Treatment Plant and Raw Water Infrastructure project. ~ *Graham Moore, P.E., Executive Director*
- F.4 Discussion and possible recommendation to the Board regarding the addition of a new delivery point at the Authority's Phase 1B Segment C Pipeline as requested by the City of Kyle. ~ *Graham Moore, P.E., Executive Director*
- F.5 Discussion and possible recommendation to the Board regarding approval of a Work Order with AECOM for the Blanco Basin Wastewater Treatment Plant Feasibility Study Update. ~ *Graham Moore, P.E., Executive Director*
- F.6 Discussion of possible recommendation to the Board to adopt the Authority's Authority budget for FY 2021-22. ~ *Graham Moore, P.E., Executive Director*
- F.7 Review and possible direction to Staff regarding change order procedures included in the Authority's Purchasing Policy. ~ *Graham Moore, P.E., Executive Director*
- F.8 Discussion of legislative issues for the 87th Texas Legislature Special Session #1, and possible direction to Staff. ~ *Graham Moore, P.E., Executive Director*
- F.9 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*

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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*

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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COMMITTEE MEMBER PACKETS
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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

James Earp

Tom Taggart

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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COMMITTEE MEMBER PACKETS

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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 June 9, 2021. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2021 06 09 Technical Committee Meeting Minutes

Technical Committee decision needed:

- Approval of minutes.



ALLIANCE WATER

Alliance Regional Water Authority

TECHNICAL COMMITTEE MEETING

MINUTES

Wednesday, June 9, 2021

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, June 9, 2021 by telephonic conference call 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. CALL TO ORDER.

The Alliance Water Technical Committee Meeting was called to order at 3:00 p.m. by Mr. Taylor.

B. ROLL CALL.

- **Present: Neffendorf, Ramos, Samford and Taylor.**
- **Absent: Earp, Taggart and Urbanovsky.**

C. PUBLIC COMMENT PERIOD

- **None.**

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Special Technical Committee Meeting held May 12, 2021.

- **Motion to adopt the minutes as presented was made by Mr. Neffendorf, seconded by Mr. Ramos and approved on a 4-0 vote.**

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

- F.1 Discussion regarding Weatherization of the Authority's Facilities.
- **Mr. Biemer provided an update on the Weatherization of the Authority's Facilities.**
 - **Mr. Samford noted that during the winter event their diesel gelled up – so an additive should be considered.**
 - **Mr. Biemer noted that for each load of diesel chemicals are added to treat against gelling and microbial degradation.**
 - **Mr. Ramos inquired if well head protection is being considered.**
 - **Mr. Biemer noted that wells will be rotated during an event to help ensure they are all in working order.**
 - **Mr. Ramos inquired if the standard processes are being codified.**
 - **Mr. Biemer responded that his is working on detailed standard operating procedures that are currently at 20%-25% complete.**
 - **No Action.**
- F.2 Update and possible direction to Staff regarding the Authority's Phase 1B program.
- **Mr. Sowa provided an update on the Phase 1B program.**
 - **Mr. Neffendorf asked about the change order procedures / authorization levels.**
 - **Mr. Moore noted that they are dependent on the initial award amounts and the percent increase resulting from the change order. Mr. Moore noted that he will bring the change order levels back to the Technical Committee for review at their July meeting.**
 - **No Action.**
- F.3 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Program Schedule.
- **Mr. Sowa provided an update on the Phase 1B schedule.**
 - **Mr. Davenport asked what happened to the graves on the Weltner property.**
 - **Mr. Sowa noted that the investigation phase is underway.**
 - **Mr. Ramos asked about the scheduled impacts to GBRA for Segment C slipping.**
 - **Mr. Moore stated that GBRA is not involved in Segment C and that they are kept up-to-date on schedules for all combined projects at the monthly Project Advisory Committee meetings.**
 - **No Action.**

- F.4 Update and discussion regarding the production rates for the Authority's four Phase 1B Carrizo wells.
- **Mr. James Bene from RW Harden & Associates attended the meeting and provided a presentation on the ARWA well field and production rates.**
 - **Mr. Taylor asked if the team is reviewing the water quality data from GBRA.**
 - **Mr. Bene noted that he has not reviewed the data, and Mr. Moore stated that the water treatment plant design team has reviewed the available data from GBRA.**
 - **Mr. Kite requested a copy of the water quality data for his review.**
 - **Mr. Moore noted that he would send it to Mr. Kite.**
 - **Mr. Neffendorf inquired as to the desired future condition (DFC) for the Carrizo in this area.**
 - **Mr. Bene noted that the DFC includes all pumpage included in the Region L plan and that it is to have no more than 25% of de-saturation of the Carrizo outcrop.**
 - **No Action.**
- F.5 Discussion and possible recommendation to the Board regarding the addition of a new delivery point at the Authority's Phase 1B Booster Pump Station site for Maxwell Special Utility District as requested by Canyon Regional Water Authority.
- **Motion to recommend to the Board the continuance of discussions of the addition of a delivery point for Maxwell SUD at the Authority's 1B Booster Pump Station property was made by Mr. Ramos, seconded by Mr. Neffendorf and approved on a 4-0 vote.**
- F.6 Discussion and possible recommendation to the Board regarding operations of the Authority's infrastructure system.
- **Mr. Moore noted that at the May Technical Committee meeting Mr. Earp requested that this item be on the agenda.**
 - **Motion to recommend to the Board that the Authority's infrastructure will be operated by Staff hired directly by the Authority was made by Mr. Taylor, seconded by Mr. Neffendorf and approved on a 4-0 vote.**
- F.7 Discussion of the draft Authority budget for FY 2021-22; and possible direction to staff.
- **Mr. Moore presented the draft budget.**
 - **No Action.**

F.8 Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff.

- **Mr. Moore provided an update on the current session and legislation.**
- **No Action.**

F.9 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

- **No Items.**

I. EXECUTIVE SESSION

I.1 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 Executive Session.**

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.**

J. ADJOURNMENT

- **Meeting was adjourned at 5:01 p.m. by Mr. Taylor.**

APPROVED: _____, 2021

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- F.1** 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 – July 14, 2021
- Kimley-Horn Monthly Summary of Activities for June 2021

Technical Committee Decisions Needed:

- None.



Phase 1B Program Update

Technical Committee Meeting
July 14, 2021



ALLIANCE WATER

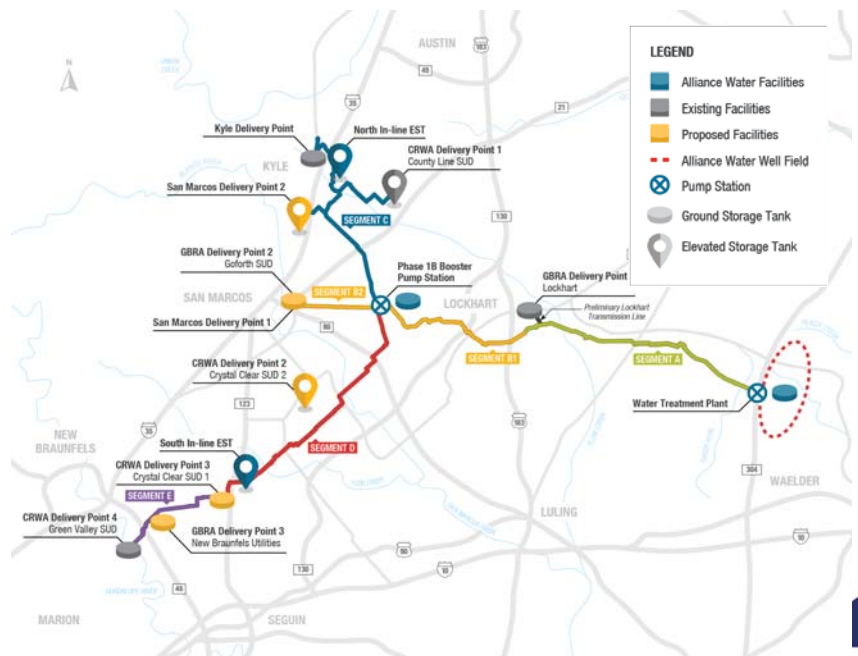
PRESENTED BY **Kimley»Horn**
Expect More. Experience Better.

Ongoing Progress

► Design Milestone Status

- Design Submittals
 - Pipeline Segment C (100%) – July
 - Pipeline Segment E (100%) – July
 - Inline EST (60%) – July

- TWDB Reviews
 - Segment A
 - Approved for Procurement
 - Booster Pump Station & Delivery Points
 - Approved for Procurement
 - Segment B
 - EFR and EDR Under Review



Ongoing Progress

► Procurement/Construction Status

- Water Treatment Plant & Raw Water Infrastructure
 - Ongoing coordination with selected contractor and TWDB
 - July 15 – anticipated NTP to contractor

- Pipeline Segment A / Booster Pump Station & Delivery Points
 - Pre-Proposal Meeting – July 1
 - Proposals Due – July 30
 - PAC Approval – August 20
 - Board Approval – August 25
 - Anticipated NTP – October 15



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	6	6	33
B	52	0	0	0	0	30	30	22
D	56	0	0	8	8	29	37	19
C	79	29	29	4	62	10	72	7
E	37	7	7	4	18	16	34	3
Well Field	20	17	0	3	20	0	20	0
Total	283						199	84



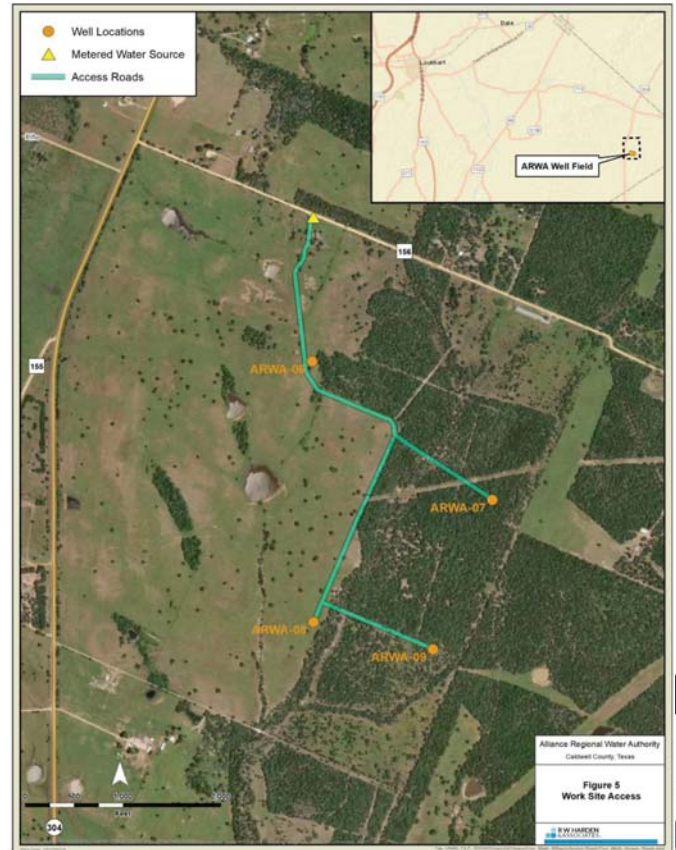
Well Drilling Construction Progress

▶ Actual Progress (last 30 days)

- Sites No. 7, 8, and 9
 - Wells Completed
- Site No. 6
 - Finalizing Well
- Pouring Well Pads

▶ Anticipated Progress (next 30 days)

- Site No. 6
 - Finalize Well
- Complete Well Pads
- Substantial Completion Walkthrough



Budget Update

COST UPDATES BASED ON JUNE MILESTONE SUBMITTALS

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

JULY 2021 UPDATE

**NO CHANGE FROM
JUNE UPDATE**



Questions?

July 09, 2021

Project Monthly Summary

June 2021 Tasks Performed:

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

- Task 3 – Budgeting
 - Prepared and presented the monthly Budget Update for the June Board meeting.
 - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Prepared and presented the quarterly Schedule Update for the June Board meeting.
 - 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
 - Incorporated the appropriate documentation for parcels with approved acquisition through condemnation proceedings.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - Coordinated with the Program Environmental Consultant regarding Inline Elevated Storage Tank site field work.
 - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.

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

- 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.
- 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
 - Finalized and submitted the next Release of Funds request for Segment A Final Design.
 - Finalized and submitted the next Release of Funds request for WTP and RWI Construction Phase.
 - Continued coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

- Task 10 – Design Standards
 - Revised and distributed the Front End Documents based on comments received during TWDB review of Segment A and BPS Contract Documents.

- 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

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

- Continue coordination with Design Consultant.
 - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations as part of right-of-entry process and EFR development.
 - Segment D
 - Continued coordination with Design Consultant for final design and preparation for bidding.
 - Segment E
 - Continued coordination with Design Consultant for final design.
 - Wellfield:
 - Continued coordination regarding the construction for Wells 6-9.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for 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 and preparation for bidding.
 - 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.
 - Continued coordination with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.

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

- 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
 - On-going coordination with WTP and RWI Design Consultants during the procurement phase.
 - Prepared for and attended WTP/RWI Pre-Construction Meeting.
 - On-going coordination with Segment A and BPS Design Consultants during the procurement phase.
- Task 16 – Other Services
 - Commissioning Planning
 - Continued evaluation of the Phase 1B infrastructure commissioning.

July 2021 Projection:

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

- Task 7 – Environmental Management
 - Review the Segment C Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
 - Continue coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - 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
 - Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

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

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A

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

- Continue coordination with Design Consultant for final design and procurement development.
 - Segment B
 - Continue coordination with Design Consultant for final design and preparation for bidding.
 - Segment C
 - Begin review of the Segment C 100% design submittal prepared by the Design Consultant.
 - Continue coordination with Design Consultant for final design.
 - Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations as part of right-of-entry process and EFR development.
 - Segment D
 - Continue coordination with Design Consultant for final design and preparation for bidding.
 - Segment E
 - Begin review of the Segment E 100% design submittal prepared by the Design Consultant.
 - Continue coordination with Design Consultant for final design.
 - Wellfield:
 - Continue coordination regarding the construction of Wells 6-9.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for pre-construction phase services.
 - Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for pre-construction phase services.
 - Booster Pump Station:
 - Coordination with Design Consultant for final design and procurement development.
 - Inline Elevated Storage Tanks:
 - Begin review of the 60% design submittal prepared by the Design Consultant.
 - 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

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

- Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.
- Continue coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 – Permit Coordination/Tracking
 - Continue Permit coordination with Pipeline consultants
 - Coordinate with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.
 - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - On-going coordination with Segment A and BPS Design Consultants during the procurement phase.
 - Prepare for and attend Segment A and BPS Pre-Proposal Meeting.
 - Prepare for and attend Segment A and BPS Bid Opening and distribute proposals to review teams.
 - Compiled proposal data from Segment A and BPS submittals and coordinated with design consultant for proposer references.
- Task 16 – Other Services
 - Finalize additional solar analysis and memo to address ARWA’s comments.
 - Commissioning Planning
 - Finalize the evaluation of the Phase 1B infrastructure commissioning for ARWA’s review.
 - Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.
 -

Scope Elements Added/Removed:

None at this time.

Outstanding Issues/Concerns:

None at this time.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

F.2 Discussion and possible recommendation to the Board regarding the Agreement between GVEC and ARWA for the Distribution Lines and Supply to the ARWA WTP and Well Sites 7, 8 & 9. ~ *Graham Moore, P.E., Executive Director*

Background/Information

In July 2019 the Authority entered into an agreement with the Guadalupe Valley Electrical Coop (GVEC) for construction of a primary electrical system and substation to serve the Water Treatment Plant and well fields for Alliance Water and GBRA.

An agreement is also warranted for the distribution side power from the substation to the Water Treatment Plant and the Alliance Water wells. The total estimated cost of the electrical distribution is \$305,000, which is less than what is currently in the Program budget. A portion of this amount will be shared with GBRA due to their participation in the Water Treatment Plant. GBRA will have a separate feeder for their wells.

A payment of \$100,000 will be due prior to initiation of construction with the final payment and true-up due at the end of construction. Below is the anticipated schedule:

Schedule

Acquire Easements for Distribution Line.....	June 2021
GVEC Stake/Design Distribution Line.....	June 2021
Procure Equipment and Materials.....	June to Dec 2021
Begin Construction of Distribution Line.....	Jan 2022 (+\$100,000)
Estimated Completion of Distribution Line.....	June 2022

Staff is requesting a recommendation from the Committee to the Board to authorize the Executive Director to sign and approve all necessary documents to provide for the distribution side electrical power to the Phase 1B Water Treatment Plant and Alliance Water Well Field.

Background/Information

- ARWA-GVEC Agreement on Distribution Power
- Map of Anticipated Distribution Power

Technical Committee Decision Needed:

- Possible recommendation to the Board.

Agreement between GVEC and ARWA for the Distribution Lines and Supply to the ARWA WTP and Well Sites 7, 8, and 9

Project Description: GVEC will plan, design, procure necessary materials, construct, and commission approximately 10,000 circuit feet of 24.9kV distribution lines with appurtenances to supply the Alliance Regional Water Authority (ARWA) WTP, ARWA Well Sites 7 and 9 located in GVEC’s territory, and ARWA Well Site 8 in Bluebonnet Electric Cooperative’s territory. The distribution supply system will be composed of a dedicated circuit to the WTP and a second non-dedicated circuit initially to the ARWA wells. The distribution system shall be in general accordance with the Exhibit 1.

Estimated Project Costs:

Engineering, Design, Staking, Equipment, Materials, Construction	\$220,000
Padmount 277/480V Transformers for WTP (1-3000kVA, 1-1000kVA)	\$46,000
OH 277/480V Transformer Banks/Service Drops/Metering to Wells 7, 8 & 9	\$27,000
24.9kV Capacitor Bank for WTP power factor correction	<u>\$12,000</u>
Estimated Total:	\$305,000

The \$305,000 is a cost estimate only. The first payment in the amount of \$100,000 will be due prior to the beginning of construction which is estimated to begin in January 2022. The final payment and or any adjustments to be made at the end of the project as described above. These monies shall be used solely for the purpose of the described project.

Schedule for Distribution Line and Service Deployment:

Acquire Easements for Distribution Line.....	June 2021
GVEC Stake/Design Distribution Line.....	June 2021
Procure Equipment and Materials.....	June to Dec 2021
Begin Construction of Distribution Line.....	Jan 2022 (+\$100,000)
Estimated Completion of Distribution Line.....	June 2022

Payment Schedule:

Payment in the amount of \$100,000 will be required prior to the beginning of construction. Final payment, with any applicable adjustments, is to be made upon completion of the project and prior to energization of the lines.

Alliance Regional Water Authority

By: _____
Graham Moore, Executive Director, ARWA

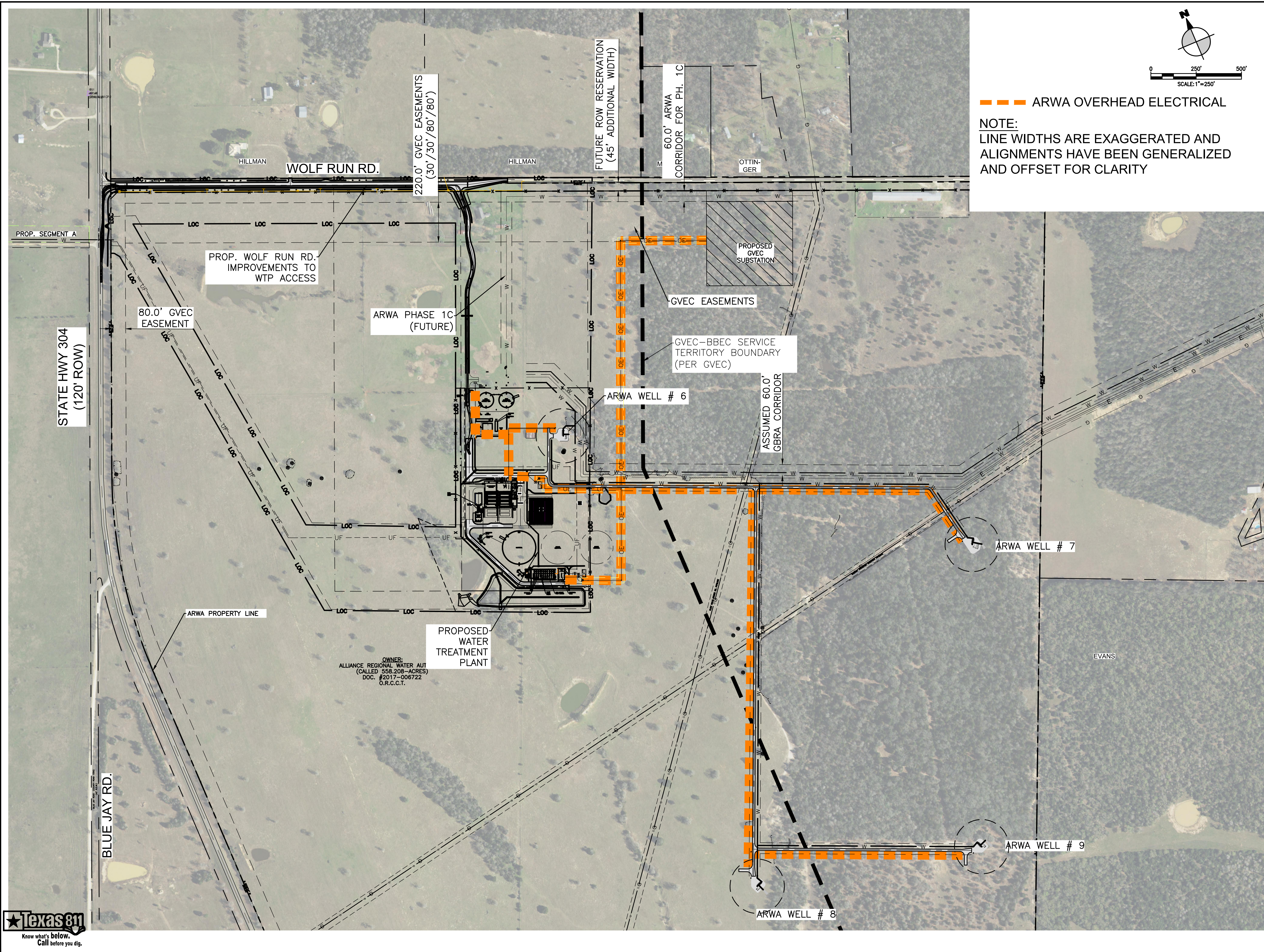
GVEC

By: _____
Name/Title _____

Date: _____

Date: _____

N:\ALLIANCE REGIONAL WATER AUTHORITY (HCP\UA)\150630 ENG SVC PPLN WELLS BOOSTER STA\060 PH. 1B RAW WATER IMPROVEMENTS\20-DRAWINGS\EXHIBITS-IMAGERY\ARWA\BRWL_BAKER RANCH.DWG, GVEC EXHIBIT3, 7/8/2021 10:34:09 AM, jsmnimgo



--- ARWA OVERHEAD ELECTRICAL
 NOTE:
 LINE WIDTHS ARE EXAGGERATED AND
 ALIGNMENTS HAVE BEEN GENERALIZED
 AND OFFSET FOR CLARITY

OWNER:
 ALLIANCE REGIONAL WATER AUT
 (CALLED 558.208-ACRES)
 DOC. #2017-006722
 O.R.C.C.T.

LNV
 an Ardurra Company
 TBP&LS REGISTERED FIRM NO. ENGINEERING FIRM #366 SURVEYING FIRM 10126501
 TBA&S REGISTERED FIRM NO. ARCHITECTURAL FIRM BR599
 7500 RIALTO BLVD, BUILDING 1, SUITE 240 PH. (512) 381-8333
 AUSTIN, TX 78735
 WWW.LNVINC.COM

REV.	DESCRIPTION	DATE

Walker Partners
 engineers ★ surveyors
 T.B.P.E. Registration No. 8053

ALLIANCE REGIONAL WATER AUTHORITY

ARWA WATER TREATMENT PLANT AND RAW WATER INFRASTRUCTURE

ARWA WELL FIELD & WATER TREATMENT OVERALL LAYOUT

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF PROFESSIONAL ENGINEER MARCUS J. NAISER, P.E. #92814
 ON THE DATE SHOWN ON THE DATE STAMP. IT IS NOT TO BE USED FOR CONSTRUCTION BIDDING, OR PERMIT PURPOSES.

DESIGNED	MJN
DRAFTED	JTS
CHECKED	MJN
PROJECT NO.	3-00708
DRAWING NO.	1



REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

- F.3** Discussion and possible recommendation to the Board regarding a Master Agreement and initial Work Order with HVJ Associates for Materials Testing for the Water Treatment Plant and Raw Water Infrastructure project. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The Authority issued RFQ 2020-003 in December 2020 for the Materials Testing Services for the Authority's Phase 1B Program. Thirteen responses were received and scored (see attached results) with the committee selecting the highest scorer, HVJ Associates. (HVJ).

HVJ has agreed to the terms included in the Authority's standard Master Agreement. The Executive Director negotiated the scope and fee for the materials testing for the Water Treatment Plant and Raw Water Infrastructure with HVJ. The effort was reviewed by the design engineers and the construction management team to help ensure that all anticipated materials testing needs are included.

Staff anticipates multiple work orders over the next several years with HVJ for the material testing associated with the other Phase 1B projects.

Below are some of the key facts regarding the proposal:

Firm: HVJ South Central Texas

Fee: \$477,040

Work Order Type: Time and Materials, Not-to-Exceed

Anticipated Duration: 20 months

Project Manager: Martin Elliot, P.E.

Attachment(s)

- ARWA Water Treatment Plant & Raw Water Infrastructure Proposal dated July 9, 2021.
- Review Committee Scoring of Proposals for the Materials Testing RFQ

Technical Committee Decision Needed:

- Possible recommendation to the Board to approve a Master Agreement and work Order #1 with HVJ South Central Texas – M&J, Inc. for Construction Materials Testing on the Phase 1B Water Treatment Plant & Raw Water Infrastructure Project.



4201 Freidrich Lane, Suite 110
Austin, Texas 78744
512.447.9081 Ph
512.443.3442 Fax
www.hvj.com

June 28, 2021 (*revised 7/9/2021*)

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

Re: ARWA Water Treatment Plant and Raw Water Infrastructure
Construction Phase Materials Engineering and Testing Proposal
San Marcos, Texas
HVJ Project No. AC2110020.1.rev.1

Dear Mr. Moore:

Pursuant to your request, HVJ South Central Texas – M&J, Inc. (HVJ) is pleased to submit this proposal to provide Owner quality assurance testing for the proposed water treatment plant and raw water infrastructure project in Dehli, Texas. This proposal reflects brief scope and fee for construction phase materials engineering and testing services following a brief review of project documents.

Project Description

It is understood the proposed water treatment plant and raw infrastructure consists of and not limited to the following structures and related utility lines: filter building, emergency generator, High Service Pump Station electrical and generator, hyponeumatic bladder tank, rapid mix basin, lime storage, carbon dioxide injection & storage, filter complex, recycle pump station, sand drying bed, plate settler basin, flow equalization basin, electrical canopy and pad, raw water storage tank, clearwell storage tank, meter vaults, retaining walls, and tank support foundations, yard piping, four well sites, transmission piping, access roads, fiber crossings, discharge piping pads, and 1 generator pad .

Scope of Services

The general scope of material testing services anticipated for this project are as follows.

- Soils and Base Lab/Field Testing
- Concrete Field/ Lab Testing
- Reinforcing Steel Observations
- Structural Steel Field Bolting and Weld Inspections
- CMU Observations and Testing
- Lime Treated Subgrade Lab/Field Testing
- HMAC Testing
- Steel Pipe Weld Testing and Inspection

- Steel Pipe Coating Inspection by NACE Certified Inspector
- (Pre-stressed tank concrete testing to be performed by tank contractor- verification test cylinders will be performed if requested)

It is understood that materials testing and observations services was estimated on a call-out basis, where personnel will not be present full time during performance of the work. **However, HVJ-SCTx will work with the contractor to combine testing and inspection activities to reduce multiple site visits .**

Cost Estimate

We recommend allocating a budget of **\$477,040** for construction materials testing for the proposed treatment plant and raw water infrastructure project. Summary of materials testing budget fee is shown below

ARWA Phase 1B - Materials Testing for Civil Site Work (WTP and Water Infrastructure Projects- including Raw Water Transmission and Yard Piping Compaction Testing)				
Description	Unit	Quantity	Rate	Total
Tech Time for Soil Monitoring and Compaction Testing	hrs	1040	\$84	\$87,360
Tech Time for Asphalt/Concrete Testing	hrs	240	\$84	\$20,160
Tech Overtime for Soils or Asphalt/Concrete Testing	hrs	120	\$126	\$15,120
Laboratory Testing (Attachment A)	-	-	-	\$28,630
Nuclear Gauge	trip	150	\$55	\$8,250
Vehicle Charge	trip	180	\$80	\$14,400
			Subtotal	\$173,920
ARWA Phase 1B - Materials Testing for Structures (WTP and Water Infrastructure Projects)				
Description	Unit	Quantity	Rate	Total
Tech Time for Soil Monitoring and Compaction Testing	hrs	400	\$84	\$33,600
Tech Time for Rebar/Concrete Inspection and Testing	hrs	1260	\$84	\$105,840
Tech Overtime for Soils or Concrete Testing	hrs	120	\$126	\$15,120
Inspector Time for Weld/Bolt Inspections	hrs	320	\$115	\$36,800
Laboratory Testing (Attachment A)	-	-	-	\$34,130
Nuclear Gauge	trip	50	\$55	\$2,750
Vehicle Charge	trip	240	\$80	\$19,200
			Subtotal	\$247,440
ARWA Phase 1B - Project Management and Administration				
Description	Unit	Quantity	Rate	Total
Project Manager, PE	hrs	120	\$179	\$21,480
Task Leader (Deputy Project Manager)	hrs	180	\$125	\$22,500
Administrative	hrs	180	\$65	\$11,700
			Subtotal	\$55,680
			Total	\$477,040

This estimate was prepared based on a **20 month** construction schedule. The cost estimate is based on our best estimate for both the construction schedule and frequency of service requests from the client. As the schedule and frequency of requests are beyond our control, we cannot guarantee that the estimate provided would be adequate to provide the services needed throughout the entire duration of construction of this project. Advance authorization will be needed if additional funds are required to complete testing per project

specification. HVJ will monitor the budget as the work proceeds and will keep you or your designated representative informed.

Scheduling of our personnel for this project will be at the request of you or your designated representatives. We require at least 24-hours notice prior to providing on-call personnel to ensure proper scheduling of work. Services will be invoiced on a unit basis in accordance with the attached Construction Phase Services Fee Schedules. Overtime rates of 1.5 times the regular hourly rates will be charged for time worked over 8 hours or before 6:00 AM or after 6:00 PM on Monday through Friday, and all hours worked on Saturdays, Sundays, or holidays.

Limitations

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of HVJ's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. HVJ makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This proposal was prepared specifically for the client and its designated representatives and may not be provided to others without HVJ's express permission.

Assumptions

The following assumptions were used in the preparation of this proposal:

- HVJ assumes all HMAC laboratory testing will be performed at the respective HMAC plant by 1A technician.
- HVJ assumes roadway cores will be cut by contractor and taken during the course of 1B roadway technician services and not require an additional mobilization on daily basis.
- HVJ assumes all traffic control for performance of construction materials engineering and testing will be performed by the contractor or Owner. We will not work on roadways that are open to traffic without appropriate engineered traffic controls, and/or road closure.

HVJ Associates® is pleased to submit this proposal for the proposed improvements. Should you have any questions regarding the contents of this proposal, please contact us at 512-447-9081.

Sincerely,

HVJ South Central Texas – M&J, Inc.
TBPE F-18091



Martin J. Elliott, P.E.
CoMET Department Manager



Syed Jafar, P.E.
Executive Vice President

ARWA Water Treatment Plant and Raw Water Infrastructure
AC2110020.1, rev.1
June 28, 2021 (*revised 7/9/21*)

Agreed to this _____ day of _____, 20_____

By: _____

Title: _____

Firm: _____

Phone Number: _____

Date to Start Work: _____

Enclosures:

- Attachment A: Laboratory Cost Estimate Civil Site Work and Structures (1 page)
- Attachment B: Standard Fee Schedule (4 pages)

**ARWA Phase 1B
 Water Treatment Plant and Water Infrastructure Projects**

Laboratory Cost Estimate - Civil Site Work

<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate</i>	<i>Total</i>
Sample Preparation	each	10	\$75	\$750
Atterberg Limits	each	30	\$75	\$2,250
Sieve Analysis	each	30	\$72	\$2,160
Proctors	each	30	\$275	\$8,250
Concrete Cyl Compressive Strength	each	60	\$24	\$1,440
Theoretical Maximum Specific Gravity of Bituminous Mixtures	each	20	\$115	\$2,300
Asphalt Extraction and Gradation	each	20	\$174	\$3,480
Molding of Asphalt Test Specimens (3 per set)	Set	20	\$125	\$2,500
Hveem Stability (3 per set)	Set	20	\$125	\$2,500
Bulk Density of Lab Molded Specimen (3 per Set)	Set	20	\$75	\$1,500
Bulk Density of Field Cores	each	60	\$25	\$1,500
			Total	28,630

Laboratory Cost Estimate - Structures

<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Rate</i>	<i>Total</i>
Sample Preparation	each	2	\$75	\$150
Atterberg Limits	each	10	\$75	\$750
Sieve Analysis	each	10	\$72	\$720
Proctors	each	10	\$275	\$2,750
Concrete Cyl Compressive Strength	each	1200	\$24	\$28,800
Grout Cyl Compressive Strength	each	40	\$24	\$960
			Total	\$34,130

HVJ SOUTH CENTRAL TEXAS
CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES
STANDARD FEE SCHEDULE

Attachment B

ALLIANCE REGIONAL WATER AUTHORITY MASTER FEE SCHEDULE

CODE	DESCRIPTION	HOURLY RATES	
1	Project Manager (PE)	\$	179.00
2	Sr. Project Engineer(PE)	\$	179.00
3	Project Engineer (PE)	\$	150.00
4	Staff Engineer (EIT)	\$	125.00
5	Certified Engineering Technician	\$	84.00
6	Welding Inspector (CWI)	\$	115.00
7	NDT Inspector (ASNT Level II)	\$	125.00
8	NDT Inspector (ASNT Level III)	\$	145.00
9	NACE Inspector Level I Coatings Inspector	\$	115.00
10	Administrative	\$	65.00
11	Vehicle Charge (per trip)	\$	80.00
12	Nuclear Gauge (per trip)	\$	55.00
13	Traffic Control		Cost + 10%

MATERIAL TESTING

CODE	DESCRIPTION	UNIT PRICE	
100	<u>Concrete Aggregates:</u>		
101	Screen or Sieve Analysis (ASTM C-136 or Tex-110)	\$	72.00
102	Specific Gravity (ASTM C-127 or C128)	\$	51.00
103	Unit Weight (ASTM C-29)	\$	45.00
104	Absorption (ASTM C-127 or C-128)	\$	44.00
105	Finer than 200 Mesh (ASTM C-117)	\$	49.00
106	Organic Impurities (ASTM C-40)	\$	45.00
107	Scratch Hardness (ASTM C-851)	\$	45.00
108	Abrasion Tests (ASTM C-131 or C-535)	\$	215.00
109	Clay Lumps (ASTM C-142)	\$	55.00
110	Light Weight Pieces (ASTM C-123)	\$	61.00
111	Sand Equivalent (ASTM D-2419)	\$	65.00
112	Sodium/Magnesium Sulfate Soundness (5 Cycles)	\$	390.00
113	Sodium/Magnesium Sulfate Soundness Additional Cycles	\$	175.00
114	Petrographic Examination of Concrete Aggregates (ASTM C-295)		By Quotation
200	<u>Concrete Mix Design Inspection and Testing</u>		
	Mix Design Review (using previously determined aggregate properties and other		
201	design factors) Excluding Test Costs	\$	179.00
	Trial Batch Tests (ASTM C-192) (Using aggregate admixtures and cement proposed		
202	for use in the project) each batch or each curve point	\$	450.00
203	Cylinders (ASTM C-39) test or hold, each	\$	24.00
204	Beam Test (ASTM C-78, C-293) or Hold, Each	\$	55.00

**HVJ SOUTH CENTRAL TEXAS
CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES
STANDARD FEE SCHEDULE**

Attachment B

CODE	DESCRIPTION	UNIT PRICE
205	Concrete Coring (4" Dia Up to 6" Thickness) ASTM C-42 includes Personnel, Vehicle and Patching Holes	\$ 90.00
206	Measuring Thickness of Concrete Cores (ASTM C-174)	\$ 22.00
207	Additional Thickness (6"to 12")/ (Inch)	\$ 8.00
208	Additional Thickness (Over 12")/ (Inch)	\$ 10.00
209	Concrete Coring, Minimum Charge (Min. 3 Cores)/ (LS)	\$ 290.00
210	Preparation of Cores, Capping & Test (ASTM C42, C-39)	\$ 67.00
211	Cement Compressive Strength, one age (ASTM C-109)/(Set)	\$ 120.00
212	Cement Compressive Strength, two age (ASTM C-109)/ (Set)	\$ 127.00
213	Mortar/Grout Compressive Strength Cubes (ASTM C-109)	\$ 27.00
214	Mortar/Grout Compressive Strength 3" x 6" (ASTM C-495)	\$ 24.00
215	Mortar/Grout Compressive Strength Grout Prisms (ASTM C-1019)	\$ 55.00
216	Structural Coring	By Quotation
217	Windsor Probes (ASTM C-803)	\$ 79.00
218	Bar Linear Shrinkage/ (Set)	\$ 282.00
219	Unit Weight of Lightweight Cylinders/ (Set)	\$ 70.00
220	Split Tensile Strength including preparation (ASTM C-496)	\$ 94.00
221	Petrographic Examination of Hardened Concrete (ASTM C-856)	By Quotation
222	Concrete Shrinkage Test (ASTM C-157, C-490)/ (Test)	\$ 138.00

800 ASPHALT CONCRETE MIX DESIGN & INSPECTION

801	Mix Design Review (using previously determined aggregates properties and other design factors) Excluding Test Costs	\$
802	Trial Batch Test (up to 5 curve points)	\$ 1,403.00
803	Additional Curve Points for item 802, Per Point	\$ 202.00
804	Extraction & Gradation Test (ASTM D-2172, ASTM C-136 or TEX - 210F)	\$ 174.00
805	Specific Gravity (ASTM D-2041 TEX 201F)	\$ 75.00
806	Stability: Hveem (3 Per Set) (ASTM D-1559)	\$ 125.00
807	Bulk Density of Lab Molded or Field Specimen (Core), (TEX - 207F)/(Set)	\$ 75.00
808	Molding Specimens (3 Per Set) for 806 & 807 (ASTM D-1560, TEX-208F)/(Set)	\$ 125.00
809	Penetration (ASTM D-5)	\$ 74.00
810	Ductility (ASTM D-113)	\$ 99.00
811	Viscosity (ASTM D-2170)	\$ 82.00
812	Asphalt Coring (4" Dia Up to 6" Thickness) includes Personnel, Vehicles and Patching Holes	\$ 80.00
813	Asphalt Coring Minimum Charge/ (LS)	\$ 290.00
814	Additional Thickness over 6"/ (Inch)	\$ 7.00

**HVJ SOUTH CENTRAL TEXAS
CONSTRUCTION MATERIALS ENGINEERING AND TESTING SERVICES
STANDARD FEE SCHEDULE**

Attachment B

CODE	DESCRIPTION	UNIT PRICE
815	Abson Recovery (TEX-211F)	\$ 281.00
816	Measuring Thickness of Asphalt Cores	\$ 8.00
817	Maximum Theoretical Specific Gravity (TEX 227F)	\$ 115.00
818	Hot Mix In-Place Asphalt Design	\$ 1,870.00
819	Apparent Specific Gravity (TEX 227F)	\$ 58.00
820	Moisture Susceptibility Test (TEX 531C)	\$ 409.00
821	PMA Extraction/Gradation (ASTM D-2172)	\$ 234.00
822	PMA Extraction/Gradation by Ignition (ASTM D-2928)	\$ 145.00

1000 Soils Tests:

1001	Liquid and Plastic Limits: (Atterberg Limits) (ASTM D-4318, Tex 104E, 105E, 106E)	\$ 75.00
1002	Moisture Content Only (ASTM D-2216)	\$ 15.00
1003	Mechanical Sieve Analysis, Through #200 Sieve (ASTM D-422)	\$ 72.00
1004	Percent Passing #200 Sieve (ASTM D-1120)	\$ 65.00
1005	Specific Gravity (ASTM D-854 & D-204)	\$ 51.00
1006	OMD Standard Compaction (ASTM D-698, Tex-114E)	\$ 275.00
1007	OMD Modified Compaction (ASTM D-1557, Tex-113E)	\$ 275.00
1008	OMD Lime or Cement Stabilized Soil (ASTM D-698, D-558, D-1557, Tex121E)	\$ 275.00
1009	California Bearing Ratio (ASTM D-1883)	\$ 185.00
1010	Percent Solids in Lime Slurry / (Test)	\$ 37.00
1011	Four Point Lime Content Recommendation Series (PI)/(Set)	\$ 250.00
1012	Cement Content of Freshly Mixed CSS Mixture (ASTM D-806)	\$ 269.00
1014	Comp. Strength of CSS Sample, Including Molding (ASTM D-1632 & D-1633)	\$ 61.00
1015	Maximum & Minimum Density (Sands) (ASTM D-4254)/ (Test)	\$ 275.00
1016	Density and Moisture of Soil Sample	\$ 19.00
1017	Unconfined Compression (ASTM D-2166)	\$ 39.00
1018	Unconsolidated Undrained (ASTM D-2850)	\$ 54.00
1019	Consolidation (One cycle) (ASTM D-2435)	\$ 310.00
1020	Consolidation - Additional Increments	\$ 44.00
1021	Ph of Soil (ASTM D-4972)	\$ 45.00
1022	Optimum Lime Content Ph Method	\$ 225.00
1023	Sieve Analysis - Base Materials (ASTM C-136)	\$ 85.00
1024	Compressive Strength of Cement Stabilized Base Materials, (TEX-120E, ASTM D-2166)	\$ 275.00
1025	Soil Shrinkage Factor (ASTM D-427)	\$ 54.00
1026	One Dimensional Swell Cohesive Soils	\$ 251.00
1027	Triaxial Testing	By Quotation

1028	Permeability Test, Constant Head Method (ASTM D-2434)	\$	225.00
1029	Pinhole Test	\$	246.00
1030	Crumb Test (ASTM D-4647)	\$	33.00
1031	Double Hydrometer (ASTM D-4221)	\$	152.00
1032	Free Swell (FHA)	\$	75.00
1033	Soil Suction - Filter Paper Method	\$	49.00

1300 REIMBURSABLE EXPENSES:

1301	Reimb Expenses Including Outside Testing, Equipment and Supplies	Cost + 10%
------	--	------------

GENERAL NOTES

* Services on an hourly basis will be invoiced based on unit rates presented above. Overtime rates of 1.5 times the regular hourly rates will be charged for time worked over 8 hours or before 6:00 AM or after 6:00 PM on Monday through Friday, and all hours worked on Saturdays, Sundays, or holidays.

* A minimum charge of four (4) hours applies to time worked less than four hours in any service call. HVJ, when possible will combine inspection and testing activities to minimize trip charges and labor expenses.

Alliance Regional Water Authority - RFQ 2020-003 Material Testing Services

Submittal Information							
ID Number:	1	2	3	4	5	6	7
Company Name:	Alpha Testing Inc.	Arias & Associates, Inc.	Braun Intertec	ECS Southwest, LLP	ETTL Engineers	Fugro USA Land, Inc.	Gessner Engineering
Location:	Dallas, TX 972-620-8911	San Antonio, TX 210-499-6804	San Antonio, TX 210-625-4900	Austin, TX 540-785-6674	Austin, TX 817-962-0048	Austin, TX 512-977-1852	San Antonio, TX 210-305-4792
Statement of Qualifications							
Team & Quals (out of 100)	86	87	84	86	90	99	92
Project Approach (out of 200)	149	158	124	137	130	161	149
Past Performance (out of 80)	58	70	47	58	45	68	50
HUB Participation (out of 20)	19	18	11	7	17	18	17
TOTAL SCORE	312	333	266	288	282	346	308
(RANK)	7	5	12	9	10	4	8

Alliance Regional Water Authority - RFQ 2020-003 Material Testing Services

Submittal Information						
ID Number:	8	9	10	11	12	13
Company Name:	HVJ North Texas - Chelliah Consultants, Inc.	Kleinfelder, Inc.	Raba Kistner, Inc.	Terracon Consultants	TSI Laboratories	TTL, Inc.
Location:	Dallas, TX 214-678-0227	Irving, TX 512-573-9115	San Antonio, TX 806-355-7099	Austin, TX 512-442-1122	Victoria, TX 361-578-6933	San Antonio, TX 210-888-6100
Statement of Qualifications						
Team & Quals (out of 100)	102	90	103	100	73	80
Project Approach (out of 200)	175	146	178	164	110	130
Past Performance (out of 80)	73	71	70	68	34	50
HUB Participation (out of 20)	18	17	10	16	0	15
TOTAL SCORE	368	324	361	348	217	275
(RANK)	1	6	2	3	13	11

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

- F.4** Discussion and possible recommendation to the Board regarding the addition of a new delivery point at the Authority's Phase 1B Segment C Pipeline as requested by the City of Kyle. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The City of Kyle is working with a large development called Waterstone that is adjacent to a portion of the Authority's Segment C pipeline along CR 158. The City of Kyle will likely request a second delivery point, in addition to their delivery at the FM1626 Pump Station, to help serve this portion of their system. The total amount of water available to Kyle will not change, use at the second delivery point will reduce the amount available to Kyle at their initial delivery point.

Kyle has requested up to 1,610 gpm be made available at the second delivery point. Based on this information, a hydraulic analysis was performed and confirmed that the additional delivery point will not affect the sizing of any portions of the Authority's Phase 1B system, provided that delivery is taken at or below the HGL in the pipeline segment adjacent to CR 158.

More details need to be worked out with the delivery point to include the location of the control valve, metering point, etc. At this time it is expected that the Authority would provide a tee, valve and cap to allow for the connection to the delivery point in the future.

Staff is requesting a recommendation to the Board to approve further discussions with Kyle on the potential addition of a second delivery point on the Segment C Pipeline.

Technical Committee Decision Needed:

- Possible recommendation to the Board.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

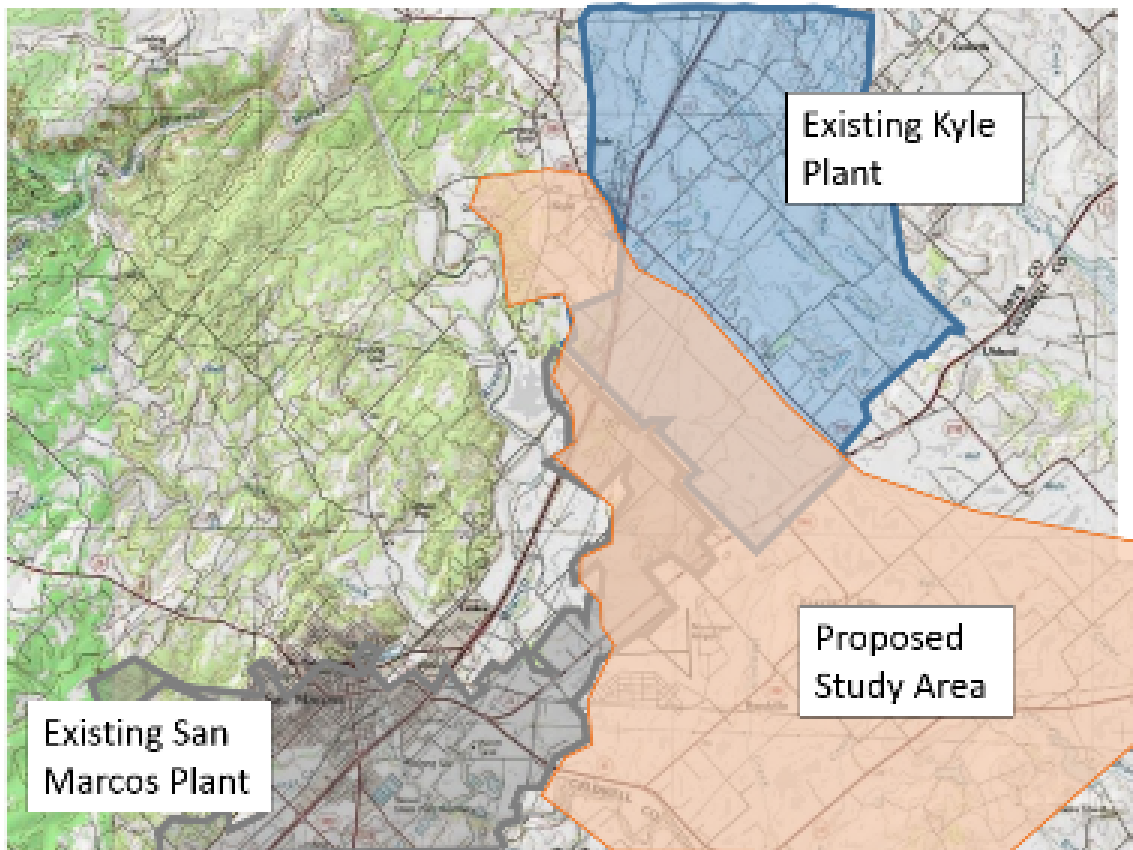
Conference Call Number: 1-903-405-2572; Code: 870 286 128#

- F.5** Discussion and possible recommendation to the Board regarding approval of a Work Order with AECOM for the Blanco Basin Wastewater Treatment Plant Feasibility Study Update. ~ *Graham Moore, P.E., Executive Director*

Background/Information

In December 2016 the Hays Caldwell PUA, the predecessor to Alliance Regional Water Authority, entered into a work order with AECOM to study the feasibility of a regional wastewater plant in the northeastern San Marcos / southeastern Kyle area to serve a portion of these communities along with the other areas growing in the general region.

Attachment B
Map of Blanco Basin
Blanco Basin Wastewater Treatment and Direct Potable Reuse Feasibility Study



The study concluded that a new wastewater plant in the area was feasible, but all parties agreed that there was still ample capacity in the communities existing plants that moving forward with a new plant in 2017 was not prudent. The parties further agreed that the

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

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growth projections should be reviewed again every 4-5 years to determine if a new plant was justified.

Staff reached out to AECOM to get a proposal to update their feasibility to analysis to review growth that has occurred since 2016/2017 and the more current growth projections, along with changes that may (or may not) have occurred in the possible discharge location(s) for a new wastewater plant. Finally, the study will include updated planning level cost estimates for both capital and operation and maintenance of the facility and collector lines.

The revised report is anticipated to take approximately six (6) months to conclude at a total lump sum cost of \$47,010 as outlined in the attached proposal dated June 24, 2021.

Staff is seeking the Technical Committee's recommendation to the Board to approve a work order with AECOM for the update to the Blanco Basin Wastewater Treatment Plant Feasibility Study.

Technical Committee Decision Needed:

- Possible recommendation to the Board to approve a work order with AECOM for the Blanco Basin study.

June 24, 2021

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

**Re: Professional Engineering Services – Blanco Basin
Wastewater Treatment Plant Feasibility Study Update**

Dear Mr. Moore:

AECOM Technical Services, Inc., (AECOM) previously prepared the Blanco Basin Wastewater Treatment Plant Feasibility Report, dated September 2017, for Alliance Regional Water Authority (Alliance Water). Recently, Alliance Water has requested AECOM provide an update to this report. AECOM is pleased to submit this proposal for professional engineering services to update the Blanco Basin Wastewater Treatment Plant Feasibility Study Report. If acceptable, this proposal will form the basis for a Work Order under the Master Agreement between the Alliance Regional Water Authority (Alliance Water) and AECOM executed on May 25, 2016.

PROJECT BACKGROUND

Alliance Water, consisting of the Cities of San Marcos, Kyle, Buda, and the Canyon Regional Water Authority, was formed to jointly develop new water supplies from the Carrizo-Wilcox aquifers. Alliance Water has leased groundwater rights in Caldwell and Gonzales Counties, and has initiated engineering and construction of a water supply system to provide up to 35,000 acre-feet per year of new water supplies from these groundwater sources. Portions of this water supply system are in construction and will provide water to this area in the near future.

In addition to these groundwater sources, Alliance Water is investigating the feasibility of direct potable reuse (DPR) as a potential alternative source of new potable water supplies. This source is potentially from reuse of the wastewater effluent from the cities of San Marcos, Kyle and Buda.

This new water supply is providing water for the recent and projected population growth in this area. This population growth results in an increase in wastewater flow that requires collection and treatment. Currently, this wastewater flow is collected and treated by existing wastewater treatment plants. However, these collection systems and treatment plants have defined capacities and it is necessary to evaluate these capacities relative to current flows, projected growth, permitting requirements and the potential need for future facilities. The previous report evaluated this issue and identified an area between San Marcos and Kyle that is currently unserved by a wastewater collection and treatment system. AECOM reviewed this area as a preliminary siting for a wastewater treatment plant to serve the area. The siting study evaluated the feasibility, identified a potential location and determined the capacity and recommended phasing for the plant. Recently, Alliance Water requested AECOM to update this previous report for current conditions. The following paragraphs define the tasks to be performed in this update of the previous report.

PROJECT DESCRIPTION

The update of the Blanco Basin Wastewater Treatment Plant Feasibility Study will consist of the following items.

- The study update will confirm the feasibility of a wastewater treatment plant serving the Blanco River basin, west of IH-35, between the current service areas of the City of San Marcos and the City of Kyle (the Cities). Additionally, the study update will confirm the previously defined service area to the east of IH-35 to quantify the service area that can be reasonably served by a central plant.
- The study update will evaluate growth since 2017 and utilize future growth projections for the defined area, based on previously defined planning periods, from data compiled by the cities of San Marcos and Kyle and information available from the Alliance Water.
- The study update will evaluate changes in flow since 2017 and use flow projections applied to the growth projections to estimate wastewater flow and plant capacity requirements over the previously defined planning period consistent with the population projections.
- The study update will include coordination and a review of flow projections with the neighboring special utility districts, including Maxwell and Crystal Clear.
- The study update will evaluate the site proposed in 2017 for the proposed wastewater treatment plant and the advantages/disadvantages of co-locating the proposed WWTP with Alliance Water's proposed Direct Potable Reuse facilities.
- The study update will evaluate the previously defined wastewater treatment plant effluent discharge location, including conceptual evaluation of potential permitting issues. This evaluation will include review of recent legislation limiting non-municipal wastewater treatment plant discharges.
- The study update will recommend the minimum site area(s) required for the proposed WWTP facilities.
- The study update will include conceptual planning level cost estimates. These costs will consist of estimated capital costs and estimated annual operation and maintenance (O&M) costs.
- The study update will provide recommendations for additional steps to be taken if Alliance Water elects to move forward with development of facilities.
- Deliverables will include a draft feasibility study report and a final feasibility study report incorporating Alliance Water's comments. Presentations will be made to the Alliance Water Executive Committee and Board and the Cities to report on the study progress and findings.

SCOPE OF SERVICES

The following scope of services is proposed to address the points identified above.

1. Project management and coordination, including interfacing with Alliance Water to confirm project requirements, obtain data, and report on progress and deliverables. This task

anticipates attendance at Alliance Water monthly Board meetings and up to two presentations to Alliance Water's board or executive committee, and/or to the Cities.

2. Conduct a kickoff and scoping meeting with Alliance Water and the Cities to confirm the project planning horizon and time increments, overall project boundary and sewersheds.
3. Confirm previously defined information on the Cities existing and proposed collection systems and meet with the City of Kyle and the City of San Marcos to define existing and planned wastewater service areas for each city. Confirm the intermediate areas to be served by the proposed Alliance Water facility and confirm the western boundary of this potential service area.
4. Coordinate with Alliance Water and other utilities or large planned developments to confirm the potential eastern limit of the service area evaluation for the possible Alliance Water facility.
5. Obtain and review current growth projections provided by Alliance Water and the Cities. Prepare an estimate of future growth in the defined service area for the proposed facility. This will be a concept level estimate based on best available data (e.g., Texas State Data Center population projections or planned developments' projected land use and density) and will be compared to previous projections established in 2017.
6. Obtain and review wastewater flow projections furnished by the Cities and identify data gaps; develop supplemental flow projections based on available data. The future wastewater flow will be estimated based on recent average gallon per capita/day values provided by the Cities.
7. Coordinate with neighboring special utility districts, including Maxwell and Crystal Clear, to review flow projections and project status. It is anticipated this coordination will consist of four (4) conference calls with each conference call requiring six (6) manhours of time.
8. Define estimated capacity and phasing required for a potential Blanco River Basin WWTP based on the population and flow projections. Review the estimated capacity and phasing requirements with Alliance Water and the Cities.
9. Conceptually define the site area required for WWTP facilities based on the capacity requirements defined above to confirm the previously proposed site is sufficiently sized for the updated projections.
10. Confirm the three previously identified potential wastewater treatment plant effluent discharge locations remain viable discharge locations. Perform limited coordination with TCEQ for conceptual evaluation of potential permitting issues associated with the discharge locations. Specifically related to recent legislation limiting non-municipal wastewater treatment plant discharges.
11. Coordinate with Alliance Water and the Cities to confirm the previously defined WWTP site remains an acceptable location.
12. Confirm the feasibility of developing a proposed wastewater treatment plant at the conceptual proposed site location. Evaluation will include consideration of:
 - Proximity to outfall and effluent discharge system conceptual capital costs
 - Major collection system improvements conceptual capital costs
 - Proximity to potential Alliance Water DPR WTP and conceptual water transmission costs
 - TPDES permit requirements and potential wastewater treatment facilities capital costs
 - Electric power availability and power transmission capital costs

- Ability to capture additional DPR source water
13. Confirm previous recommendations for co-locating the proposed WWTP with proposed Alliance Water DPR WTP facilities.
 14. Confirm previous recommendations of the cost and benefits of a proposed Blanco River Basin WWTP to expansions of the Cities existing WWTPs at the conceptual level. Conceptual costs for expansions of existing facilities will be based on information provided by the Cities and Alliance Water. Evaluation will include:
 - Collection system conceptual differential costs (pumping vs. gravity)
 - Effluent pipeline/pumping costs to a proposed Alliance Water DPR WTP
 - Duplication of general facilities – operations building, plant roads/parking, sludge dewatering, power, etc.
 - Operational requirements
 - Potential for increased DPR source water availability
 15. Meet with Alliance Water and the Cities to discuss the preliminary study findings, conclusions and recommendations.
 16. Prepare and submit the Draft Study Report; incorporate Alliance Water and Cities' review comments; and submit the Feasibility Study Final Report.

SPECIAL SERVICES

The above Scope of Services and the budget presented herein does not include the following services. If and when it is determined that these services may be required, AECOM will obtain authorization from the Alliance Water before performing any of these additional services.

1. Significant revisions requested by the Alliance Water after receiving initial direction by the Alliance Water.
2. Travel and subsistence required of AECOM and authorized by the Alliance Water to points other than the project site, existing WWTP sites defined above, or Alliance Water offices.
3. Public involvement meetings.
4. Environmental/cultural resources investigations or permitting
5. Surveying, geotechnical engineering, or other field investigations.
6. Preliminary Engineering or Final Design of WWTP facilities or collection system improvements.

Should the Alliance Water and AECOM agree that any of the above Special Services or any other additional services are required, AECOM will prepare a scope and fee proposal for such services and obtain authorization from the Alliance Water prior to performing any special services.

SCHEDULE

It is anticipated the above described scope of services will be performed within six (6) months of receipt of notice to proceed from the Alliance Water. The intent of this schedule is to provide the draft Report to Alliance Water no later than February of 2022.

DELIVERABLES



Deliverables to be submitted to the Alliance Water consist of the following items:

1. Five (5) copies of the draft Report.
2. Five (5) copies of the final Report.

COMPENSATION

The total compensation requested in this proposal is \$47,010.00 and is summarized in Exhibit B. All compensation will be on a lump sum basis. If acceptable, this proposal will form the basis of a Work Order under the Master Agreement executed on May 25, 2016. We would appreciate receiving one signed original for our files.

Very truly yours,

Shelby G. Eckols, PE
Senior Vice President
AECOM

Attachments

Accepted: _____

Date: _____

Graham Moore
Executive Director, Alliance Regional Water Authority

Direct Labor Rates and Multipliers	PRINCIPAL/ TECH. DIR.	PROJ. MGR.	PROJ. ENGR.	GRAD. ENGR.	TECH.	CLER.	FRINGE and G&A MULT.
	105	75	60	40	40	30	2.00
LABOR ESTIMATE							
TASK LISTING	PRINCIPAL	P. MGR.	P. ENGR.	ENGR.	TECH.	CLER.	TOTAL
<i>Feasibility and Conceptual Planning Phase</i>							
1. Project Management, Coordination, and Presentations	3	24				4	31
2. Kickoff Meeting/Confirm Project Approach		2					2
3. Review Collection Systems/Confirm Svc Area West Boundary							-
a. San Marcos Collection System		1	2		2		5
b. Kyle Collection System		1	2		2		5
4. Confirm Service Area Potential East Boundary		1	2		2		5
5. Review Population Projections and Develop for Service Area	1	4	4	6			15
6. Review Flow Projections and Develop for Service Area	1	4	4	6			15
7. Coordinate with neighboring special utility districts	4	8	12				24
8. Develop Capacity and Phasing and Review w/ Alliance Water	1	2	2				5
9. Define WWTP Site Area Requirements	1	1	2				4
10. Limited TCEQ Coordination/Evaluate Discharge Locations	1	3	6		4		14
11. Define WWTP Conceptual Proposed Site Location		2	2		2		6
12. Feasibility Evaluation of WWTP at Proposed location	1	4	8	4			17
13. Evaluate Co-Location of WWTP with DPR WTP Facilities		1	2		2		5
14. Compare New WWTP vs. Expansions of Existing WWTPs							-
a. San Marcos WWTP	1	6	8				15
b. Kyle WWTP	1	6	8				15
15. Review Preliminary Findings with Alliance Water and Cities	1	4	3				8
16. Prepare and Submit Draft Report and Final Report	2	6	28		8	4	48
TOTAL HOURS	18	80	95	16	22	8	239
DIRECT LABOR TOTALS	\$1,890	\$6,000	\$5,700	\$640	\$880	\$240	\$15,350
FRINGE & GENERAL/ADMIN. COSTS	\$3,780	\$12,000	\$11,400	\$1,280	\$1,760	\$480	\$30,700
TOTAL LABOR COSTS	\$5,670	\$18,000	\$17,100	\$1,920	\$2,640	\$720	\$46,050

\$ 6,705.00
 \$ 450.00
 \$ -
 \$ 825.00
 \$ 825.00
 \$ 825.00
 \$ 2,655.00
 \$ 2,655.00
 \$ 5,220.00
 \$ 1,125.00
 \$ 900.00
 \$ 2,550.00
 \$ 1,050.00
 \$ 3,135.00
 \$ 825.00
 \$ -
 \$ 3,105.00
 \$ 3,105.00
 \$ 1,755.00
 \$ 8,340.00

NON-LABOR ESTIMATE

ITEM		QTY.	RATE	TOTAL
Internal Printing (8.5 x 11 photocopies)	LS	1	\$30	\$30
CADD	Hrs.	22	\$15	\$330
Mileage	LS	1	\$600	\$600
TOTAL NON-LABOR COSTS				\$960

TOTAL FEE ESTIMATE:	\$47,010
----------------------------	-----------------

Proposed Project Staff Labor Rate Categories
 PROJECT PRINCIPAL/TECHNICAL DIRECTOR
 PROJECT MANAGER
 PROJECT ENGINEER
 GRADUATE ENGINEER
 TECHNICIAN
 CLERICAL

Shelby G. Eckols, P.E.; Abu S. Alam, ScD, P.E., BCEE
 Martin Rumbaugh, P.E., BCEE; John Buser, P.E.; Ioan Chilarescu, PhD, P.E.
 Xiaohong He, PhD, P.E.; Behnoush Yeganeh, P.E.; Casey Wauters, P.E.
 Johnathan Chen, EIT; Nick Lowe, EIT; Austin Bird, EIT
 Joe Nungaray; Talsi Gadhia;
 Pam Bradley

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

F.6 Discussion of possible recommendation to the Board to adopt the Authority's Authority budget for FY 2021-22. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Attached is the summary budget for FY 2021-22.

FY 21-22 Budget Highlights

Below are some of the highlights of the Authority FY 21-22 budget (Appendix A):

- Budget assumes part-time bookkeeper for the entirety of the fiscal year and two full-time operators to be hired starting in mid to late FY 21-22. If the results of the operations analysis determines that operations are to be contracted out, the money for the full-time operators will be moved to contracted operations.
- No significant changes in consultant expenditures.
- Includes some small equipment additions as discussed previously with the Technical Committee.
- All debt service payments (2015, 2017, 2019 and 2020) match the final debt service tables.
- Sponsor payment amounts for all non-debt service items has not changed from previous versions of the budget.

The Projects Budget (Appendix B) has been updated along with the Water Sharing budget (Appendix D).

Appendix C projects out revenues and expenditures for the Authority for the next five years. The water sharing expenditures to be paid by Buda and County Line SUD have been included, but the revenues to Kyle and San Marcos have been excluded from this analysis.

The table on the following page summarizes the payments made by each Sponsor in support of the Operating Budget and Debt Service in FY 2019-20, those being made in FY 2020-21, what was previously projected for FY 2021-22 and what is currently projected for FY 2021-22.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

SPONSOR	ACTUAL 2019-20	APPROVED 2020-21	PROJECTED 2021-22	ACTUAL BUDGET 2021-22
San Marcos	\$2,127,117	\$3,990,430	\$6,526,423	\$6,135,730
Kyle	\$1,884,978	\$3,076,740	\$4,495,687	\$4,114,580
Buda	\$302,043	\$571,350	\$1,427,641	\$873,690
Canyon Regional Water Authority	\$2,158,871	\$3,426,100	\$4,983,146	\$4,571,520
TOTAL	\$6,473,009	\$11,064,620	\$17,432,897	\$15,695,520

Staff is requesting a recommendation to the Board on possible adoption of the budget at the July meeting.

Attachment(s)

- Summary Budget FY 2021-22 dated July 7, 2021

Technical Committee Decisions Needed:

- Possible recommendation to the Board to adopt the FY 2020-2021 Authority budget, as presented.

ALLIANCE REGIONAL WATER AUTHORITY

SUMMARY BUDGET



FOR FISCAL YEAR 2021-22

July 7, 2021



ALLIANCE REGIONAL WATER AUTHORITY

BOARD OF DIRECTORS

Officers

Chris Betz - Chair
Jane Hughson – Vice-Chair
Blake Neffendorf - Treasurer
James Earp - Secretary

Board Members

Regina Franke
Tim Samford
Mark Gleason
Humberto Ramos
Tom Taggart
Derrick Turley
Paul Kite
Pat Allen
Marie Kalka



Alliance Regional Water Authority Summary Budget for FY 21-22

Authority's Goals for FY 21-22

The primary goal for the Alliance Regional Water Authority (Alliance Water) for FY 21-22 is to continue with the development of its 15,000 acre-feet per year Carrizo water supply for its Sponsors scheduled to begin water delivery in 2023. The following items will continue to be pursued in the next fiscal year towards that end:

- Operations of Alliance Water's Phase 1A infrastructure;
- Detailed design and construction of Alliance Water's Phase 1B Program to include the well field, water treatment plant, treated pipelines, booster pump station and integration of water into the Sponsor's systems; and
- Continued participation in State Water Planning, the legislative process and other regional water efforts to expand the understanding of Alliance Water's projects.

Authority's Anticipated Revenue Sources for FY 21-22

Alliance Water receives funding from its Sponsors, based on the Water Supply Contract that was signed by the Agency and its Sponsors in 2008 and the subsequent Amendment #1. The funding comes from two sources: cash payments and/or debt issuance.

The FY 21-22 budget continues to include collection of debt service from Kyle and Canyon Regional Water Authority for the debt issued in 2015 along with collection from all four Sponsors for the debt issued in 2017, 2019 and 2020. The remaining operations and maintenance expenses are anticipated to be funded through cash payments by the Sponsors at the rates specified in the water supply contract.

In June 2018 Alliance Water entered into an agreement with the Guadalupe-Blanco River Authority (GBRA's) for Treatment and Transmission Services for GBRA's Carrizo water to be utilized by GBRA's customers. As part of the agreement, GBRA has agreed to pay for 50% of

the design and acquisition costs for the portion of the Phase 1B Program in which they are participating. These payments are a significant source of revenue for Alliance Water.

Finally, Alliance Water also receives a relatively small amount of revenue monthly as part of a non-potable water supply agreement entered into with the property owner that sold Alliance Water the property for the Phase 1A Booster Pump Station.

Authority's Anticipated Expenditures for FY 21-22

Alliance Water's anticipated expenditures in FY 21-22 are anticipated to be concentrated in the following areas:

- Groundwater royalty payments;
- Program management, preliminary & final design and right-of-way acquisition for the Phase 1B Program infrastructure;
- Construction of the Phase 1B infrastructure
- Operations of the Phase 1A infrastructure;
- Debt service;
- Governmental Relations;
- Public Relations;
- Legal counsel; and
- Full-time staff.

Significant Changes in Revenues & Expenditures from FY 20-21 and FY 21-22

Based on current projections, operations and maintenance expenditures for FY 20-21 are anticipated to be approximately \$2,133,860 with capital expenditures of approximately \$105,000 and debt service payments totaling \$8,639,620 yielding total expenditures of \$10,878,480. Operations and maintenance expenditures in FY 21-22 are anticipated to be approximately \$2,292,450 with groundwater royalties accounting for approximately 59% of the anticipated expenditures. Capital expenditures are anticipated to be \$120,000 with debt service payments totaling \$13,215,520. Total expenditures for FY 21-22 are anticipated to be \$15,507,970. Revenues will increase over FY 21-22 due to the additional debt service payments that will be collected from the Sponsors.

Fiscal Year 19-20 Revenues and Expenditures

Table 1 below summarizes the revenues and expenditures for Alliance Water for the last completed fiscal year of FY 19-20.

Table 1	
FY 19-20 Financial Statement	
Total Assets	\$152,621,516
Total Liabilities	\$127,173,789
Net Position	\$25,466,936

Fiscal Year 20-21 Budgeted and Estimated Revenues and Expenditures

Table 2 below summarizes Alliance Water's budgeted revenues and expenditures versus the projected revenues and expenditures for the current fiscal year of FY 20-21.

Table 2		
FY 20-21 Financial Budget		
	<u>Budget¹</u>	<u>Projected</u>
Revenues	\$11,109,720	\$11,106,950
Expenditures	\$10,995,480	\$10,878,480
Fund Balance	\$2,338,660	\$2,452,890

Notes: ¹ Reflects the adopted FY 20-21 budget.

Fiscal Year 21-22 Proposed Revenues and Expenditures

The proposed revenues and expenditures have been divided into three separate accounts: General Operations, Projects and Water Sharing. Appendices A and B provide the detailed FY 21-22 budgets for the General Operations and Projects budgets. Appendix D includes the anticipated revenues and expenses related to the water sharing. These have not been used to adjust the payments expected from the Sponsors as a result of general operations and the projects budgets.

Fund Balance

The fund balance at the end of FY 20-21 is projected to be approximately equivalent to 14 months of operations based on the amended FY 20-21 operating budget.

Sponsor Contributions

Table 3 indicates the total Sponsor contributions required for FY 21-22 for both the General Operations and Projects budgets.

TABLE 3					
FY 21-22 – TOTAL SPONSOR PAYMENTS					
	Total	San Marcos	Kyle	CRWA	Buda
General Operations, excluding Debt Service	\$2,600,000	\$932,360	\$732,420	\$803,140	\$132,080
Debt Service	\$12,770,783	\$5,203,374	\$3,382,157	\$3,768,376	\$741,613
Projects Contribution	\$0	\$0	\$0	\$0	\$0
Water Sharing	\$593,400	\$0	\$0	\$0	\$593,400
TOTAL	\$15,964,183	\$6,135,734	\$4,114,577	\$4,571,516	\$1,467,093

Proposed Five-Year Forecast of Authority Revenues and Expenditures

Appendix C summarizes the anticipated Agency expenditures for budget years FY 20-21 through FY 25-26 and Table 5 summarizes the anticipated revenues collected from the Sponsors. This does not include any credits or contributions related to the water sharing plan. The breakdown of payment by type is provided in Appendix E.

TABLE 5						
5-YEAR ANTICIPATED SPONSOR CONTRIBUTIONS						
	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26
San Marcos	\$3,990,432	\$6,135,734	\$6,276,546	\$6,524,866	\$7,078,888	\$7,169,679
Kyle	\$3,076,738	\$4,114,577	\$4,230,843	\$4,426,946	\$4,865,037	\$4,930,623
Canyon Regional Water Authority	\$3,426,100	\$4,571,516	\$4,693,522	\$4,906,778	\$5,384,827	\$5,459,919
Buda	\$1,050,432	\$1,368,693	\$1,413,641	\$1,213,720	\$1,001,692	\$1,015,886
TOTAL	\$11,543,702	\$16,190,519	\$16,614,551	\$17,072,308	\$18,330,444	\$18,576,105

Primary Issues Affecting the Budget

The proposed budget indicates that the engineering and construction for Phase 1B will continue and operations of the Phase 1A will continue in FY 21-22. The budget includes the addition of two salaried positions for operations in FY 21-22. These personnel will only be hired if the Board determines that the Authority will operate the entire system with internal Staff, otherwise the funding will be reallocated to support contract operations. The current budget anticipates that the Sponsors will remain at their same participation levels as indicated in Amendment #1 to the Water Supply Contract.

END

APPENDIX A

FY 2021-22 GENERAL OPERATIONS BUDGET

Alliance Regional Water Authority
APPENDIX A: FY 2021-22 GENERAL OPERATIONS BUDGET

DRAFT 2021-07-07

Expense	Actual FY 2019/20	Approved (as Amended) FY 2020/21	Estimated FY 2020/21	Proposed FY 2021/22
Operations Expenditures				
Royalties & Permit Fees				
Groundwater Royalties	1,336,205.00	1,355,600.00	1,355,600.00	1,355,600.00
Permit Fees	75,538.00	90,300.00	74,455.00	82,000.00
Total Royalties & Permit Fees	1,411,743.00	1,445,900.00	1,430,055.00	1,437,600.00
Contract Services				
Agency Mgmt Public Relations	7,500.00	50,000.00	50,000.00	50,000.00
Contract Services-Lobbyist	72,000.00	78,000.00	72,000.00	72,000.00
Auditing fees	10,715.00	13,000.00	10,930.00	13,000.00
Legal Fees	82,816.00	105,000.00	105,000.00	115,000.00
Total Contract Services	173,031.00	246,000.00	237,930.00	250,000.00
Regional Water Planning Contribution	1,364.00	2,500.00	1,500.00	2,500.00
Admin Operations				
Dues	6,454.00	7,250.00	7,655.00	7,500.00
Bank Fees	2,772.00	1,000.00	3,600.00	2,500.00
Insurance - Liability, E&O	2,374.00	5,000.00	2,423.00	7,000.00
Non-Project Newspaper Public Notices	1,371.00	500.00	3,735.00	3,500.00
Printing and Copying	4,641.00	2,500.00	0.00	0.00
Telephone, Telecommunications	825.00	3,800.00	3,800.00	3,800.00
Supplies	14,815.00	10,000.00	16,122.00	18,000.00
Admin Operations - Other	8,200.00	7,500.00	0.00	1,500.00
Total Admin Operations	41,452.00	37,550.00	37,335.00	43,800.00
Travel, Conferences & Meetings	0.00	4,000.00	1,800.00	5,000.00
Employee Expenses				
Salaries and wages	269,352.00	335,878.00	326,000.00	376,084.67
Merit Bonus	0.00	3,040.00	1,500.00	0.00
Salary Increases	0.00	0.00	0.00	13,140.52
Auto Allowance	12,499.00	17,150.00	13,100.00	12,600.00
Phone Allowance	1,973.00	3,600.00	2,810.00	2,700.00
Payroll taxes	19,967.00	25,285.00	21,275.00	27,759.89
Employee Insurance	21,868.00	30,625.00	30,000.00	47,637.50
Retirement	19,043.00	25,175.00	23,500.00	33,267.70
Licenses & Permits	1,431.00	1,700.00	1,150.00	2,700.00
Mileage Reimbursement	0.00	800.00	400.00	3,150.00
Employee Expenses - Other	0.00	2,000.00	1,000.00	6,000.00
Total Employee Expenses	346,133.00	445,253.00	420,735.00	525,040.27
Total Operations Expenditures	1,973,720.00	2,181,200.00	2,129,360.00	2,263,940.00
Facility O&M Expenditures				
General - O&M Expenditures	0.00	500.00	0.00	9,000.00
Well Field - O&M Expenditures	0.00	0.00	0.00	0.00
WTP - O&M Expenditures	0.00	9,650.00	0.00	0.00
Maxwell BPS - O&M Expenditures	0.00	0.00	0.00	0.00
Buda BPS - O&M Expenditures	0.00	19,510.00	4,500.00	19,510.00
Kyle EST - O&M Expenditures	0.00	0.00	0.00	0.00
SH-123 EST - O&M Expenditures	0.00	0.00	0.00	0.00
Total O&M Expenditures	0.00	29,660.00	4,500.00	28,510.00

Alliance Regional Water Authority
APPENDIX A: FY 2021-22 GENERAL OPERATIONS BUDGET

DRAFT 2021-07-07

	Actual FY 2019/20	Approved (as Amended) FY 2020/21	Estimated FY 2020/21	Proposed FY 2021/22
Capital Expenditures				
Projects-in-Progress (Cash)				
Legal Support	13,267.00	25,000.00	20,000.00	25,000.00
Hydrogeologic Support	13,449.00	25,000.00	20,000.00	20,000.00
Total Projects-in-Progress (Cash)	26,716.00	50,000.00	40,000.00	45,000.00
Projects-in-Progress Eng. (Cash)				
Engineering - General	0.00	75,000.00	50,000.00	75,000.00
GIS Development	15,516.00	20,000.00	15,000.00	0.00
Total Projects-in-Progress Eng. (Cash)	15,516.00	95,000.00	65,000.00	75,000.00
Projects-in-Progress Construction				
Construction -GCUWCD Monitor Wells	0.00	0.00	0.00	0.00
Total Projects-in-Progress Construction	0.00	0.00	0.00	0.00
Debt Service Payment				
Series 2015a (CRWA)	247,586.50	250,977.00	250,977.00	249,058.00
Series 2015b (Kyle)	177,032.50	181,087.50	181,087.50	179,928.50
Series 2017a (CRWA)	500,814.00	498,561.50	498,561.50	501,017.50
Series 2017b (Kyle)	455,035.50	452,995.50	452,995.50	455,691.50
Series 2017c (San Marcos)	722,337.00	723,522.00	723,522.00	719,232.00
Series 2017d (Buda)	100,203.00	104,678.00	104,678.00	104,054.00
Series 2019a (CRWA)	700,000.00	1,287,478.50	1,287,478.50	1,289,930.50
Series 2019b (Kyle)	605,000.00	1,174,531.50	1,174,531.50	1,172,646.50
Series 2019c (San Marcos)	580,000.00	1,897,305.00	1,897,305.00	1,899,831.00
Series 2019d (Buda)	85,000.00	268,481.00	268,481.00	271,717.00
Series 2020a (CRWA)	0.00	640,000.00	640,000.00	1,728,369.50
Series 2020b (Kyle)	0.00	585,000.00	585,000.00	1,573,890.50
Series 2020c (San Marcos)	0.00	500,000.00	500,000.00	2,584,310.50
Series 2020d (Buda)	0.00	75,000.00	75,000.00	365,842.00
Total Debt Service Payment	4,173,010.00	8,639,620.00	8,639,620.00	13,095,520.00
Total Capital Expenditures	4,215,240.00	8,784,620.00	8,744,620.00	13,215,520.00
Total Expense	6,188,960.00	10,995,480.00	10,878,480.00	15,507,970.00
Ordinary Income/Expense				
Beginning Unreserved Fund Balance	1,901,880.00	2,224,421.58	2,224,421.58	2,452,890.00
Revenue				
Project Contribution				
City of San Marcos	2,127,117.00	3,990,430.00	3,990,430.00	6,135,730.00
City of Kyle	1,884,978.00	3,076,740.00	3,076,740.00	4,114,580.00
City of Buda	302,043.00	571,350.00	571,350.00	873,690.00
Canyon Regional Water Authority	2,158,870.50	3,426,100.00	3,426,100.00	4,571,520.00
Project Contribution - Other	28,648.00	31,600.00	38,000.00	31,600.00
Total Project Contribution	6,501,656.50	11,096,220.00	11,102,620.00	15,727,120.00
TexStar Interest Revenue				
City of San Marcos	12,083.00	4,300.00	800.00	4,300.00
City of Kyle	9,492.00	3,400.00	630.00	3,400.00
City of Buda	1,712.00	600.00	110.00	600.00
Canyon Regional Water Authority	10,409.00	3,700.00	675.00	3,700.00
TexStar Interest Revenue - Other	0.00	0.00	0.00	0.00
Total TexStar Interest Revenue	33,696.00	12,000.00	2,215.00	12,000.00
Broadway Interest Revenue				
City of San Marcos	2,399.00	550.00	725.00	550.00
City of Kyle	1,837.00	425.00	620.00	425.00
City of Buda	309.00	75.00	70.00	75.00
Canyon Regional Water Authority	2,208.00	450.00	700.00	450.00
Broadway Interest Revenue - Other	0.00	0.00	0.00	0.00
Total Broadway Interest Revenue	6,753.00	1,500.00	2,115.00	1,500.00
Total Operating Revenue	6,542,110.00	11,109,720.00	11,106,950.00	15,740,620.00
Total Funds Available	8,443,990.00	13,334,141.58	13,331,371.58	18,193,510.00
Net Income	353,150.00	114,240.00	228,470.00	232,650.00
Ending Unreserved Balance	2,224,421.58	2,338,660.00	2,452,890.00	2,685,540.00
Fund Balance as Percentage of Operating	112.70%	105.78%	114.95%	117.15%

APPENDIX B

FY 2021-22 PROJECTS BUDGET

Alliance Regional Water Authority
APPENDIX B: FY 2021-22 CAPITAL PROJECTS BUDGET

Expense	Actual FY 2019/20	Approved (as Amended) FY 2020/21	Estimated FY 2020/21	Proposed FY 2021/22
Capital Expenditures				
Projects-in-Progress Engineering				
Engineering - Phase 1A Pipeline	45,513.00	15,000.00	15,000.00	0.00
Engineering - Phase 1A Pump Station	49,216.00	0.00	1,700.00	0.00
Engineering - ROW Acquisition	181,905.00	0.00	75,000.00	0.00
Project - Required Newspaper Notices	1,371.00	0.00	0.00	0.00
Total Projects-in-Progress Engineer	278,005.00	15,000.00	91,700.00	0.00
Projects-in-Progress Construction				
Construction - Phase 1A Pipeline	2,766,981.00	700,000.00	1,220,000.00	0.00
Construction - Phase 1A Pump Station	1,173,145.00	0.00	510,000.00	0.00
Construction - Inspection	242,321.00	50,000.00	250,000.00	0.00
Total Projects-in-Progress Construction	4,182,450.00	750,000.00	1,980,000.00	0.00
Total Capital Expenditures	4,460,455.00	765,000.00	2,071,700.00	0.00
Ordinary Income/Expense				
Revenue				
Capital Contribution				
City of San Marcos	1,377,834.55	274,300.00	639,948.13	0.00
City of Kyle	0.00	0.00	583,597.89	0.00
City of Buda	226,591.11	267,500.00	105,242.36	0.00
Canyon Regional Water Authority	0.00	0.00	639,948.13	0.00
Total Project Contribution	1,604,425.66	2,155,800.00	1,968,736.51	0.00
Total Interest on Capital Contribution	0.00	0.00	0.00	0.00
Total Operating Revenue	1,604,425.66	2,155,800.00	1,968,736.51	0.00

APPENDIX C

PROJECTED 5-YEAR BUDGET

**Alliance Regional Water Authority
APPENDIX C: PROJECTED 5-YR BUDGET**

	DRAFT 2021-07-07					
	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Beginning Fund Balance	\$2,224,422	\$2,392,830	\$2,495,480	\$2,860,230	\$2,991,120	\$3,030,360
GENERAL OPERATIONS						
Expenditures						
Operations						
Royalties & Permits	\$1,430,055	\$1,437,600	\$1,545,800	\$2,071,300	\$2,116,857	\$2,163,644
Contract Services	\$237,930	\$250,000	\$256,000	\$271,000	\$271,000	\$271,000
Operations	\$38,835	\$46,300	\$46,300	\$48,615	\$51,046	\$53,598
Employee Expenses	\$420,735	\$525,040	\$511,900	\$729,195	\$1,385,358	\$1,438,793
Travel, Conferences & Meetings	\$1,800	\$5,000	\$5,000	\$7,500	\$15,000	\$20,000
Total Operations	\$2,129,355	\$2,263,940	\$2,365,000	\$3,127,610	\$3,839,261	\$3,947,036
Plant O&M Expenditures	\$4,500	\$28,510	\$23,750	\$250,000	\$1,250,000	\$1,350,000
Capital Projects (Cash)						
Permitting/Groundwater Support	\$40,000	\$45,000	\$50,000	\$35,000	\$35,000	\$40,000
Engineering & Studies (Cash)	\$65,000	\$75,000	\$100,000	\$100,000	\$100,000	\$125,000
Total Capital Projects (Cash)	\$105,000	\$120,000	\$150,000	\$135,000	\$135,000	\$165,000
Shared Water						
Payments to Kyle	\$306,257	\$321,750	\$338,000	\$186,875	\$0	\$0
Payments to San Marcos	\$204,061	\$271,650	\$292,000	\$170,625	\$0	\$0
Total Shared Water	\$510,318	\$593,400	\$630,000	\$357,500	\$0	\$0
Total Expenditures	\$2,749,170	\$3,005,850	\$3,168,750	\$3,870,110	\$5,224,260	\$5,462,040
Revenues						
City of San Marcos	\$869,605	\$932,360	\$1,075,800	\$1,326,820	\$1,882,650	\$1,972,300
City of Kyle	\$683,123	\$732,420	\$845,100	\$1,042,290	\$1,478,925	\$1,549,350
City of Buda	\$123,190	\$132,080	\$152,400	\$187,960	\$266,700	\$279,400
Canyon Regional Water Authority	\$749,083	\$803,140	\$926,700	\$1,142,930	\$1,621,725	\$1,698,950
Total Revenues	\$2,425,000	\$2,600,000	\$3,000,000	\$3,700,000	\$5,250,000	\$5,500,000
PROJECTS						
Expenditures						
Series 2015a (CRWA)	\$250,977	\$249,058	\$249,058	\$251,854	\$249,319	\$251,609
Series 2015b (Kyle)	\$181,088	\$179,929	\$179,929	\$178,608	\$182,117	\$180,437
Series 2017a (CRWA)	\$498,562	\$501,018	\$501,018	\$498,048	\$499,727	\$496,042
Series 2017b (Kyle)	\$452,996	\$455,692	\$455,692	\$452,997	\$454,983	\$451,633
Series 2017c (San Marcos)	\$723,522	\$719,232	\$719,232	\$719,282	\$718,677	\$722,517
Series 2017d (Buda)	\$104,678	\$104,054	\$104,054	\$103,334	\$102,526	\$101,646
Series 2019a (CRWA)	\$1,287,479	\$1,289,931	\$1,289,931	\$1,287,131	\$1,284,128	\$1,285,844
Series 2019b (Kyle)	\$1,174,532	\$1,172,647	\$1,172,647	\$1,175,575	\$1,173,261	\$1,170,685
Series 2019c (San Marcos)	\$1,897,305	\$1,899,831	\$1,899,831	\$1,897,081	\$1,893,944	\$1,890,416
Series 2019d (Buda)	\$268,481	\$271,717	\$271,717	\$269,890	\$268,019	\$266,106
Series 2020a (CRWA)	\$640,000	\$1,728,370	\$1,726,816	\$1,726,816	\$1,729,929	\$1,727,475
Series 2020b (Kyle)	\$585,000	\$1,573,891	\$1,577,477	\$1,577,477	\$1,575,751	\$1,578,518
Series 2020c (San Marcos)	\$500,000	\$2,584,311	\$2,581,683	\$2,581,683	\$2,583,617	\$2,584,446
Series 2020d (Buda)	\$75,000	\$365,842	\$365,470	\$365,036	\$364,447	\$368,734
Total Expenditures	\$8,639,618	\$13,095,519	\$13,094,551	\$13,084,808	\$13,080,444	\$13,076,105
Revenues						
Sponsor Payments						
City of San Marcos	\$3,120,827	\$5,203,374	\$5,200,746	\$5,198,046	\$5,196,238	\$5,197,379
City of Kyle	\$2,393,615	\$3,382,157	\$3,385,743	\$3,384,656	\$3,386,112	\$3,381,273
City of Buda	\$448,159	\$741,613	\$741,241	\$738,260	\$734,992	\$736,486
Canyon Regional Water Authority	\$2,677,017	\$3,768,376	\$3,766,822	\$3,763,848	\$3,763,102	\$3,760,969
Total Sponsor Payments	\$8,639,618	\$13,095,519	\$13,094,551	\$13,084,808	\$13,080,444	\$13,076,105
Total Revenues	\$8,639,618	\$13,095,519	\$13,094,551	\$13,084,808	\$13,080,444	\$13,076,105
Net Sponsor Payments						
Sponsor Payments						
City of San Marcos	\$3,990,432	\$6,135,734	\$6,276,546	\$6,524,866	\$7,078,888	\$7,169,679
City of Kyle	\$3,076,738	\$4,114,577	\$4,230,843	\$4,426,946	\$4,865,037	\$4,930,623
City of Buda	\$1,050,432	\$1,368,693	\$1,413,641	\$1,213,720	\$1,001,692	\$1,015,886
Canyon Regional Water Authority	\$3,426,100	\$4,571,516	\$4,693,522	\$4,906,778	\$5,384,827	\$5,459,919
Total Net Sponsor Payments	\$11,543,702	\$16,190,519	\$16,614,551	\$17,072,308	\$18,330,444	\$18,576,105
Interest Income	\$13,500	\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
NET INCOME	\$168,410	\$102,650	\$364,750	\$130,890	\$39,240	\$51,460
ENDING FUND BALANCE	\$2,392,830	\$2,495,480	\$2,860,230	\$2,991,120	\$3,030,360	\$3,081,820
	112.14%	108.86%	119.74%	88.56%	59.54%	58.18%

APPENDIX D

FY 2021-22 WATER SHARING BUDGET

**Alliance Regional Water Authority
APPENDIX D: FY 2021-22 WATER SHARING**

DRAFT 2021-07-07

	Actual FY 2019/20	Amended) FY 2020/21	Estimated FY 2020/21	Proposed FY 2021/22
Ordinary Income/Expense				
Revenue				
Interim Water Revenue				
City of San Marcos	0.00	0.00	0.00	0.00
City of Kyle	0.00	0.00	0.00	0.00
City of Buda	447,228.00	479,083.00	435,000.00	495,000.00
Canyon Regional Water Authority	0.00	0.00	0.00	0.00
County Line SUD	0.00	0.00	38,725.00	98,400.00
Total Interim Water Revenue	447,228.00	479,083.00	473,725.00	593,400.00
Total Operating Revenue	447,228.00	479,083.00	473,725.00	593,400.00
Total Funds Available	447,228.00	479,083.00	473,725.00	593,400.00
Expense				
Water Expenditures				
Payments for Shared Water				
City of San Marcos	167,580.00	165,336.00	206,756.00	271,650.00
City of Kyle	285,851.00	306,857.00	281,692.00	321,750.00
City of Buda	0.00	0.00	0.00	0.00
Canyon Regional Water Authority	0.00	0.00	0.00	0.00
Operations & Maintenance	0.00	6,890.00	0.00	0.00
Total Payments for Water	453,431.00	479,083.00	488,448.00	593,400.00
Phase 1A BPS O&M				#REF!
Total Capital Expenditures	453,431.00	479,083.00	488,448.00	#REF!

APPENDIX E

PROJECTED 5-YEAR CONTRIBUTIONS BY SPONSOR BY EXPENSE TYPE

Alliance Regional Water Authority
APPENDIX E: Projected 5-Yr Contributions by Entity & Type

DRAFT 2021-07-07

Projected 5-Yr Contributions for Buda by Type

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Operations	\$123,190	\$132,080	\$152,400	\$187,960	\$266,700	\$279,400
Debt Service	\$448,159	\$741,613	\$741,241	\$738,694	\$735,581	\$732,199
Water Sharing	\$510,318	\$593,400	\$630,000	\$357,500	\$0	\$0
Phase 1A Contributions	\$1,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,082,667	\$1,467,093	\$1,523,641	\$1,284,154	\$1,002,281	\$1,011,599

Projected 5-Yr Contributions for San Marcos by Type

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Operations	\$869,605	\$932,360	\$1,075,800	\$1,326,820	\$1,882,650	\$1,972,300
Debt Service	\$3,120,827	\$5,203,374	\$5,200,746	\$5,198,046	\$5,196,238	\$5,197,379
Phase 1A Contributions	\$7,200	\$0	\$0	\$0	\$0	\$0
TOTAL	\$3,997,632	\$6,135,734	\$6,276,546	\$6,524,866	\$7,078,888	\$7,169,679

Projected 5-Yr Contributions for Kyle by Type

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Operations	\$683,123	\$732,420	\$845,100	\$1,042,290	\$1,478,925	\$1,549,350
Debt Service	\$2,393,615	\$3,382,157	\$3,385,743	\$3,384,656	\$3,386,112	\$3,381,273
TOTAL	\$3,076,737	\$4,114,577	\$4,230,843	\$4,426,946	\$4,865,037	\$4,930,623

Projected 5-Yr Contributions for CRWA by Type

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Operations	\$749,083	\$803,140	\$926,700	\$1,142,930	\$1,621,725	\$1,698,950
Debt Service	\$2,677,017	\$3,768,376	\$3,766,822	\$3,763,848	\$3,763,102	\$3,760,969
TOTAL	\$3,426,100	\$4,571,516	\$4,693,522	\$4,906,778	\$5,384,827	\$5,459,919

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

F.7 Review and possible direction to Staff regarding change order procedures included in the Authority’s Purchasing Policy. ~ *Graham Moore, P.E., Executive Director*

Background/Information

At the June Technical Committee meeting a question arose about the approval authority for change orders. The portion of the Authority’s Purchasing Policy dealing with change orders is excerpted below:

3.2.6. Change Orders. Change orders may not result in a cumulative increase of more than 25% in the contract amount except when issued only as a result of unanticipated conditions encountered during construction, repair, or renovation or changes in regulatory criteria or to facilitate project coordination with other political entities, and they may not result in a cumulative decrease of more than 25% in the contract amount without the consent of the contractor. The following table shows the approval authority for construction contract change orders, based on the contract amount as originally approved:

Construction Contract Change Order Approval Authority Levels			
Approval Authority	Contract Amount < \$5 million	Contract Amount ≥ \$5 million and < \$10 million	Contract Amount ≥ \$10 million
Executive Director	≤ \$25,000 up to a maximum cumulative amount of 3% of contract amount	≤ \$100,000 up to a maximum cumulative amount of 3% of contract amount	≤ \$100,000 up to a maximum cumulative amount of 2% of contract amount
Technical Committee	≤ \$50,000 up to a maximum cumulative amount of 5% of contract amount	≤ \$250,000 up to a maximum cumulative amount of 5% of contract amount	≤ \$250,000 up to a maximum cumulative amount of 5% of contract amount
Board of Directors	> \$50,000	> \$250,000	> \$250,000

Notes to table:

3.2.6.1. Change order dollar amounts are per change order, and refer only to additive change orders. The Executive Director will have authority to approve all deductive change orders.

3.2.6.2. Cumulative amounts include all prior change orders approved by an approver. Cumulative amounts do not include any change orders approved by a different approver.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

By way of example, the table below indicates the authority levels for change order approvals for the two Phase 1B construction projects awarded to date:

Project	Award Amount	Exec Director's Authority	Technical Committee Authority
Well Drilling	\$2.641 million	\$79,320	\$132,050
WTP & RWI Project	\$54.35 million	\$1.087 million	\$2.717 million

Technical Committee Decision Needed:

- Possible direction to Staff.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

F.8 Discussion of legislative issues for the 87th Texas Legislature Special Session #1, and possible direction to Staff. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The first Special Session of the 87th Legislature began on July 8th. No items directly affecting water utilities, eminent domain or open meetings were on the Governor's call for the session. Staff and our Governmental Relations consultant will continue to monitor bills filed to determine if any will have impacts on the Authority. The special session can only last for 30 days unless extended by the Governor.

Technical Committee Decision Needed:

- Possible direction to Staff.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

- F.9** 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 is scheduled to meet on July 13th – a verbal update will be provided to the Board on any items affecting the Authority.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on July 20th.

Groundwater Management Area 13

No update.

Region L Planning Group

Region L is next scheduled to meet on August 5th.

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, July 14th, 2021 at 3:00 P.M.

Conference Call Number: 1-903-405-2572; Code: 870 286 128#

- 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*

July Board Meeting

- The July Board meeting is scheduled for the Wednesday, July 28th. The meeting will be held at Buda City Hall and a virtual attendance option will be available to Board members and the general public.
- Mr. Moore will be out on PTO the week of June 19th – June 23rd.

Consultant Invoices Paid

- Below are reports on the consultant invoices paid in June.

FY 20-21 CONSULTANT INVOICES PAID IN JUNE 2021

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/ Anomalies
LAN - Kyle/Buda Design	\$76,971.62	\$0.00	\$11,147.20	14%	\$65,824.42	
RW Harden	\$30,000.00	\$183.25	\$6,945.56	23%	\$23,054.44	
Tx Solutions Group	\$72,000.00	\$6,000.00	\$54,000.00	75%	\$18,000.00	
BGE - Ph 1A CA	\$7,110.08	\$0.00	\$1,400.30	20%	\$5,709.78	
Kent Alan Sick - ROW Legal	\$45,000.00	\$0.00	\$7,916.40	18%	\$37,083.60	
LNV - GIS Svcs	\$16,693.63	\$0.00	\$14,630.25	88%	\$2,063.38	
Armstrong, Vaughan & Associates, P.C.	\$10,930.00	\$0.00	\$10,930.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$245,000.00	\$19,958.00	\$152,663.00	62%	\$92,337.00	
Lloyd Gosselink Rochelle & Townsend	\$105,000.00	\$12,314.50	\$59,208.09	56%	\$45,791.91	
CD&P - Public Relations	\$35,404.50	\$0.00	\$23,191.43	66%	\$12,213.07	
MLA Labs, Inc. - Segment B	\$6,773.00	\$0.00	\$398.00	6%	\$6,375.00	
HDR - 2021 Rate Study	\$16,125.00	\$0.00	\$0.00	0%	\$16,125.00	
Law Offices of Patricia Erlinger Carls	\$25,000.00	\$1,102.50	\$1,102.50	4%	\$23,897.50	
Total	\$692,007.83	\$39,558.25	\$343,532.73		\$348,475.10	

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- On the following page is the report on the Phase 1B invoices paid in June.

PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN JUNE 2021

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
Kimley-Horn Ph 1B Owner's Rep W04	\$1,319,033.52	\$0.00	\$1,319,033.52	100%	\$0.00	
Kimley-Horn Ph 1B Owner's Rep W05	\$2,685,433.00	\$0.00	\$131,429.63	5%	\$2,554,003.37	
Blanton - Environmental	\$875,510.28	\$0.00	\$486,015.12	56%	\$389,495.16	
LAN - Segment A Prelim	\$116,364.20	\$2,266.60	\$2,266.60	2%	\$114,097.60	
LAN - Segment A Final	\$417,554.89	\$10,562.84	\$287,185.22	69%	\$130,369.67	
KFA - Segment B Prelim	\$13,275.94	\$0.00	\$0.00	0%	\$13,275.94	
KFA - Segment B Final	\$701,928.97	\$22,410.32	\$525,878.25	75%	\$176,050.72	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$2,497,617.09	\$424,490.50	\$1,820,038.77	73%	\$677,578.32	
FNI - Segment D Prelim	\$63,533.66	\$0.00	\$0.00	0%	\$63,533.66	
FNI - Segment D Final	\$955,900.03	\$42,026.94	\$740,586.71	77%	\$215,313.32	
Walker - Segment E Prelim	\$58,638.01	\$0.00	\$13,349.75	23%	\$45,288.26	
Walker - Segment E Final	\$1,040,800.61	\$65,520.53	\$521,706.26	50%	\$519,094.35	
LAN - ROW Acquisition	\$1,601,100.28	\$0.00	\$303,103.85	19%	\$1,297,996.43	
DTR&G	\$522,719.30	\$112,515.01	\$510,382.36	98%	\$12,336.94	
CBRE - Appraisals	\$1,784,150.00	\$0.00	\$496,260.00	28%	\$1,287,890.00	
CP&Y - Survey	\$984,980.00	\$57,194.00	\$506,572.50	51%	\$478,407.50	
RW Harden - WDH Const Admin	\$358,153.60	\$22,894.00	\$268,352.00	75%	\$89,801.60	
LNV - RWI	\$263,573.86	\$9,990.00	\$120,183.86	46%	\$143,390.00	
Walker Partners - WTP Final Design	\$1,029,963.16	\$0.00	\$787,766.84	76%	\$242,196.32	
FNI - BPS Prelim	\$4,772.50	\$13,902.86	\$4,772.50	100%	\$0.00	
FNI - BPS Final	\$723,816.63	\$0.00	\$531,069.93	73%	\$192,746.70	
Plummer - Inline Elevated Tank	\$42,799.42	\$0.00	\$39,069.35	91%	\$3,730.07	
Pape-Dawson - CM&I W0#1	\$16,880.44	\$0.00	\$16,380.03	97%	\$500.41	
Pape-Dawson - CM&I W0#2	\$147,500.00	\$0.00	\$130,335.00	88%	\$17,165.00	
Pape-Dawson - CM&I W0#3	\$74,460.00	\$0.00	\$71,360.00	96%	\$3,100.00	
Pape-Dawson - CM&I W0#4	\$57,520.00	\$0.00	\$44,825.00	78%	\$12,695.00	
Hicks & Co - WDH Environmental	\$15,874.00	\$0.00	\$303.00	2%	\$15,571.00	
Total	\$18,390,225.99	\$1,027,703.31	\$9,931,889.81		\$8,458,336.18	

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Approved Change Orders

CHANGE ORDERS APPROVED IN JUNE 2021				
Consultant	Original Authorization	Change Orders to Date	Change Order Approved this Month	New Total Contract Amount
Walker Partners: 1B Segment E	\$ 408,755.00	\$ 164,719.00	\$ -	\$ 573,474.00
Drilling & Hydrogeology	\$ 114,000.00	\$ 31,380.00	\$ -	\$ 145,380.00
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00	\$ -	\$ 816,025.00
K Friese & Assoc.: 1B Segment B	\$ 565,417.00	\$ 60,095.00	\$ -	\$ 625,512.00
BGE: 1B Segment C Prelim	\$ 614,626.00	\$ 34,430.00	\$ -	\$ 649,056.00
Freese & Nichols: 1B Segment D	\$ 597,714.00	\$ 66,722.00	\$ -	\$ 664,436.00
Walker Partners: 1B WTP (Prelim)	\$ 1,203,606.00	\$ 40,406.00	\$ -	\$ 1,244,012.00
CP&Y: Ph 1B Program Survey	\$ 3,375,780.00	\$ 83,500.00	\$ -	\$ 3,459,280.00
Freese & Nichols: 1B Segment D (Final)	\$ 1,999,464.00	\$ 136,462.09	\$ -	\$ 2,135,926.09
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 196,591.00	\$ -	\$ 2,089,668.00
Blanton & Assoc: Environmental Invest.	\$ 1,398,775.00	\$ 150,703.00	\$ -	\$ 1,549,478.00
K Friese & Assoc: 1B Seg B Final Design	\$ 1,830,994.00	\$ 296,281.13	\$ 63,326.00	\$ 2,063,949.13
Walker Partners: 1B WTP (Final)	\$ 2,900,402.00	\$ 564,435.00	\$ 21,534.00	\$ 3,464,837.00
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 75,337.00	\$ -	\$ 1,494,037.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 88,128.00	\$ 43,567.00	\$ 1,278,549.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 255,021.00	\$ -	\$ 2,943,331.00
Freese & Nichols: 1B BPS & DP Prelim	\$ 1,580,519.00	\$ 11,755.00	\$ -	\$ 1,592,274.00
Pape Dawson: 1B BPS & DP Prelim	\$ 57,520.00	\$ 43,080.00	\$ -	\$ 100,600.00

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- 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
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COMMITTEE MEMBER PACKETS

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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
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COMMITTEE MEMBER PACKETS

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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*
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J. ADJOURNMENT
