

**Alliance Regional Water Authority  
Technical Committee**

**REGULAR MEETING**



**ALLIANCE WATER**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.

Conference Call Number: 1-903-405-2572  
Code: 866 044 449#

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
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**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, December 9, 2020. The public may participate in this meeting by calling the following number and code:**

**Conference Call Number: 1-903-405-2572**  
**Code: 866 044 449#**

**Members of the public wishing to make public comment during the meeting must register by emailing [info@alliancewater.org](mailto:info@alliancewater.org) prior to 3:00 p.m. on October 9, 2020. 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 Special Technical Committee Meeting held October 14, 2020. ~ *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 1A projects. ~ *Jason Biemer, Director of Operations*

F.2 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.3 Update, discussion and possible direction to Staff regarding the Authority's Phase 1 Annual Operations & Maintenance Estimates. ~ *Graham Moore, P.E., Executive Director*
- F.4 Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff. ~ *Graham Moore, P.E., Executive Director*
- F.5 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ *Graham Moore, P.E., Executive Director*
- G. EXECUTIVE DIRECTOR REPORT - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
- I. EXECUTIVE SESSION
  - I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*
    - A. *Water supply partnership options*
    - B. *Groundwater leases*
    - C. *Acquisition of real property for water supply project purposes*
  - 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

**NOTE:** *The Technical Committee may meet in Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. The Technical Committee may also publicly discuss any item listed on the agenda for Executive Session.*

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**A. CALL TO ORDER**

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No Backup Information for this Item.

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**B. ROLL CALL**

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<u>NAME</u>	<u>PRESENT</u>
Blake Neffendorf	
James Earp	
Tom Taggart	
Humberto Ramos	
Tim Samford	
Mike Taylor	

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**C. PUBLIC COMMENT PERIOD**

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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**

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



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**D.1** Consider approval of minutes of the Special Technical Committee Meeting held October 14, 2020. ~ *Graham Moore, P.E., Executive Director*

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Attachment(s)

- 2020 10 14 Technical Committee Meeting Minutes

**Technical Committee decision needed:**

- Approval of minutes.



## ALLIANCE WATER

### Alliance Regional Water Authority

### TECHNICAL COMMITTEE MEETING

### MINUTES

**Wednesday, October 14, 2020**

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, October 14, 2020 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 3:03 p.m. by Mr. Earp.**

B. ROLL CALL.

- **Present: Neffendorf, Earp, Taggart, Ramos, Samford and Taylor.**
- **Absent: None.**

C. PUBLIC COMMENT PERIOD

- **None.**

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Special Technical Committee Meeting held September 9, 2020.

- **Motion to adopt the consent agenda as presented was made by Mr. Taylor, seconded by Mr. Taggart and approved on a 6-0 vote.**

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 1A projects.
- **Mr. Biemer provided an update on the projects.**
  - **Mr. Taylor asked if this would change any of the critical parts lists for the station.**
  - **Mr. Biemer responded that the long lead items are being considered for spare parts.**
  - **Mr. Taylor asked if we can avoid this problem in the future.**
  - **Mr. Biemer noted that the problem is still being evaluated but that lightning strikes in general can be very difficult to design around.**
  - **No Action.**
- F.2 Update and possible direction to Staff regarding the Authority's Phase 1B program.
- **Mr. Ryan Sowa with Kimley-Horn went through the presentation in the packet summarizing Kimley-Horn's recent activities.**
  - **Mr. Ramos inquired if the land acquisition schedule will impact the agreement with GBRA and whether force majeure should be declared.**
  - **Mr. Sowa noted that the land acquisition is lagging, but do not see it continuing in the long-term.**
  - **Mr. Moore noted that the GBRA agreement does have a force majeure clause, but that he would prefer not to exercise it.**
  - **No Action.**
- F.3 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Program Cost Estimates & Schedules.
- **Mr. Sowa provided an update on the cost estimates and schedules.**
  - **Mr. Taggart inquired if the competitive sealed proposal process could be set to incentivize early completion.**
  - **Mr. Sowa stated that this is in consideration.**
  - **Mr. Taggart also asked that a date be added to the table to make it easier to compare in the future.**
  - **Mr. Earp noted that some math in the last column appears to be off and asked that it be reviewed.**
  - **Mr. Ramos also suggested that a note be added that the Administrative Building is on hold.**
  - **Mr. Davenport inquired why the costs between the two inline tanks are so large.**
  - **Mr. Sowa responded that the tank heights and volumes are different which are the primary reasons for the differences.**

- **Mr. Moore noted that he has enforced with the Program Team and the consultants that there is no more funding available, that the \$240 million is the absolute cap.**
  - **No Action.**
- F.4 Update, discussion and possible direction to Staff regarding a Procurement Update for the Phase 1B Program.
- **Mr. Sowa presented an update on the procurement options for the Phase 1B program.**
  - **Mr. Taggart asked what the time differential is between the first and last project for bidding simultaneously.**
  - **Mr. Sowa responded that for the first set of projects it's approximately eight weeks.**
  - **Mr. Taggart suggested that an option to allow all four to bid simultaneously by one contractor or allow them to be split between facility work (plant) and pipeline works.**
  - **Mr. Sowa responded that this is a definite consideration.**
  - **Mr. Moore noted that the final approach will likely need to be decided in January 2021.**
  - **No Action.**
- F.5 Update, discussion and possible direction to Staff regarding the Authority's request to the Texas Water Development Board for additional SWIFT Funding.
- **Mr. Moore provided an update on the funding.**
  - **No Action.**
- F.6 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 on the various topics.**
  - **No Action.**
- G. EXECUTIVE DIRECTOR REPORT
- **No Action.**
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS
- **None.**
- 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 4:17 p.m. by Mr. Earp.**

**APPROVED:** \_\_\_\_\_, 2020

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- F.1** Update and possible direction to Staff regarding the Authority's Phase 1A projects.  
~ *Jason Biemer, Director of Operations*
- 

Background/Information

Below are brief updates on the Phase 1A projects.

Segment B Pipeline:

- Construction completed.
- Hydrostatic testing passed.
- Bacteriological tests passed.
- Final walkthrough conducted on December 4, 2020.
  - Project engineer, Contractor, Inspector and ARWA Staff participated.
  - No major deficiencies noted.
  - Minor cleanup and revegetation are the two major items on punch list.
  - Engineer of record is recommending issuing notice of substantial completion the week of December 7<sup>th</sup>.
- TWDB walkthrough proposed for the week of January 4, 2021.

Pump Station:

- Lightning repairs.
  - Begin repairs on December 14, 2020.
  - Anticipating several days to complete.
  - Contractor and subs reconvening on January 4<sup>th</sup>, 2021 to begin retesting all systems and address any problems before final acceptance.

**Technical Committee Decisions Needed:**

- None.

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

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 – December 9, 2020
- Kimley-Horn Monthly Summary of Activities for November 2020

**Technical Committee Decisions Needed:**

- None.



# Phase 1B Program Update

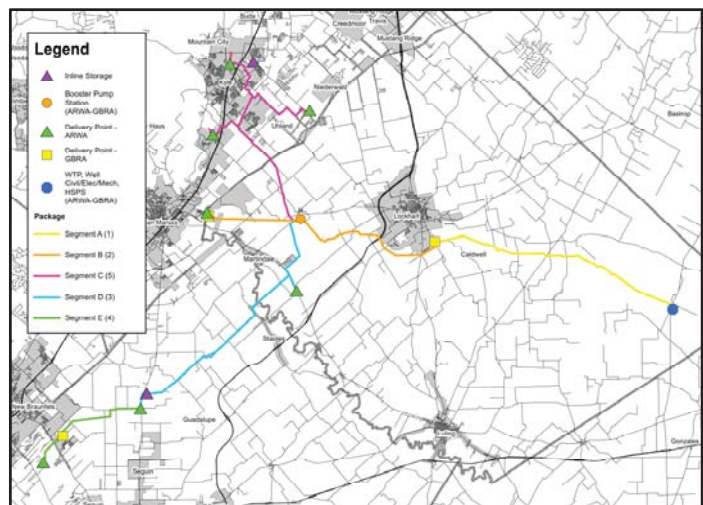
Technical Committee Meeting  
December 9, 2020



## Ongoing Progress

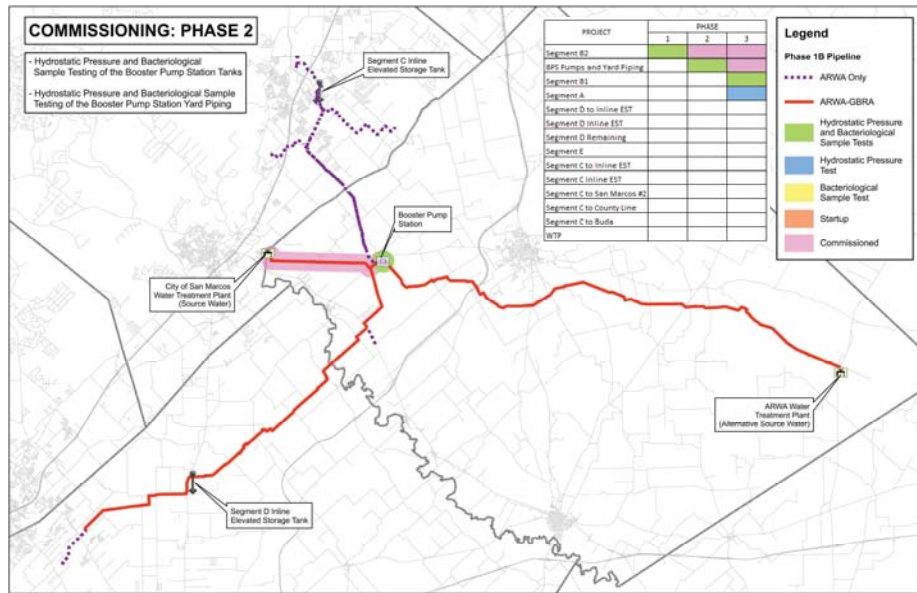
### Design Milestone Review

- December
  - Pipeline Segment E (60%)
  - Pipeline Segment A (100%)
  - Booster Pump Station (100%)
- January
  - Pipeline Segment B (100%)





# Commissioning Update



# Commissioning Update

- Analyses underway:
  - Source Water Volume requirements and Flow Rate calculations

Table 1: Combined Program Commissioning Calculations

	Phase Summary*	Pumping Rate for Filling (gpm)	Volume to Fill (gal)	Max Pumping Rate for BacT Testing (gpm)	How Long to Fill (Days)	Time Pumping for Chlorination (Days)	Volume for Phase Testing (gal)	Total Commissioning Time (Working Days)*
PHASE 1	Hydro. & BacT Seg. B2	2,000	1,800,000	2,800	1	1	3,600,000	9
PHASE 2	BPS Yard Piping and GST	2,000	4,600,000	2,800	2	1	1,000,000	30
PHASE 3	Hydro. Test Seg. B1 and Seg. A	2,000	12,200,000	-	5	-	12,200,000	12
PHASE 4	Hydro. & BacT Seg. D to EST	2,000	7,130,000	2,800	3	2	14,260,000	19
PHASE 5	Hydro. & BacT Seg. D EST	2,000	1,000,000	2,800	1	-	1,000,000	8
PHASE 6	Hydro. & BacT Seg D (remain) & Seg. E	2,000	2,400,000	2,800	1	1	4,800,000	24
	BacT Seg. B1 & Test Seg. A	-	-	2,800	-	3	12,200,000	
	<b>SUM</b>		<b>29,130,000</b>				<b>49,060,000</b>	<b>101</b>

- Commissioning Schedule alignment with Program Construction Schedule and Program Goals

# Pipeline Easement Acquisition Status

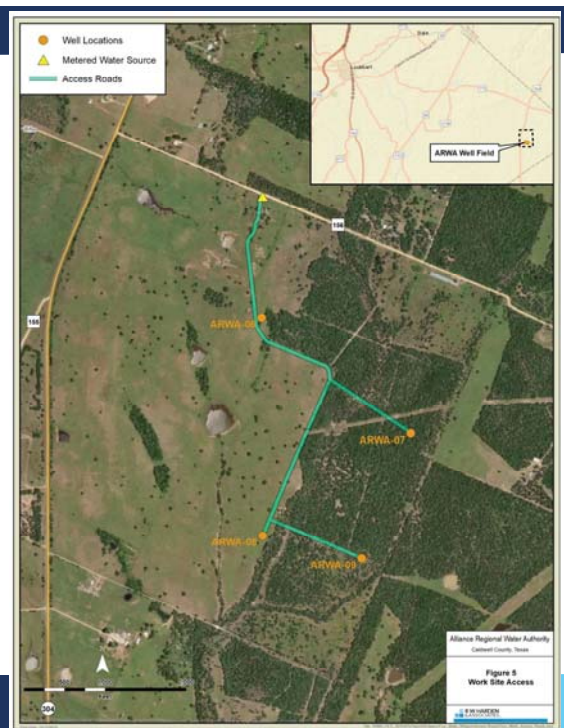
Pipeline Segment	Number of Parcels	Appraisals Prepared	Initial Offer Letter Delivered	Final Offer Letter Delivered	Purchase Agreement Signed / Possession Obtained	Approved for Condemnation
A	39	38	37	24	17	11
B	53	44	42	36	5	26
D	59	53	51	28	14	4
C	84	14	13	6	2	0
E	38	21	15	6	1	0
Wellfield	20	0	0	0	0	0
<b>Total</b>	<b>293</b>	<b>170</b>	<b>158</b>	<b>100</b>	<b>39</b>	<b>41</b>



Kimley»Horn

# Well Drilling Construction Progress

- Actual Progress (last 30 days)
  - Site No. 9
    - Screen installation
      - Increased length
    - Pump testing
    - Water sampling
  - Site Nos. 6 and 7
    - Completion of pilot holes
- Anticipated Progress (next 30 days)
  - Site No. 8
    - Production well development
    - Initial pump testing



# Well Field Construction Update

Photo Credit:  
Jim Tolles



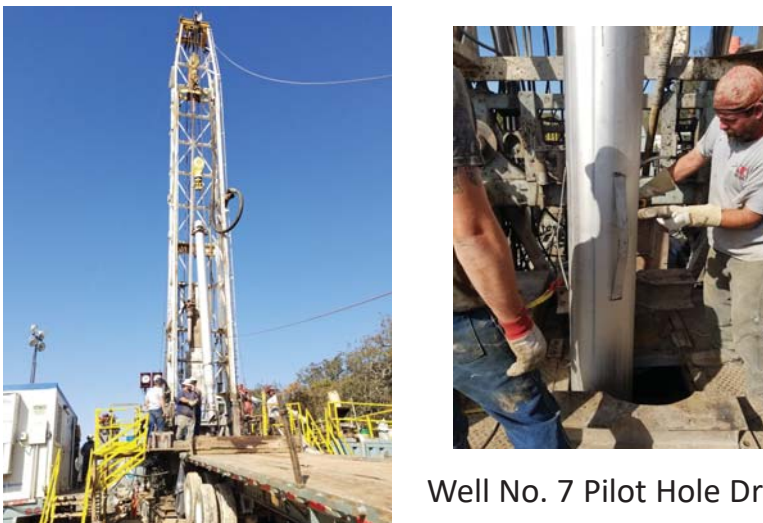
Well Screens



Kimley»Horn

# Well Field Construction Update

Photo Credit:  
Jim Tolles



Well No. 7 Pilot Hole Drilling



Kimley»Horn

## Well Drilling Construction Change Order No. 1

- Quantity reconciliation for the following items:
  - Pilot Hole Depth
  - Casing Length
  - Liner Length
  - Screen Length
  - Net increase in cost = \$141,160.00
- Well No. 6 to be Type B rather than Type A
  - Net increase in cost = \$44,000.00
- Total Change Order No. 1 = \$185,160.00
- Percent Change from Contract Price = 7.1%



Kimley»Horn

## Budget Update



Kimley»Horn

# Cost Allocation for Combined Program

Construction Package	ORIGINAL		REVISED	
	ARWA (%)	GBRA (%)	ARWA (%)	GBRA (%)
WTP Construction	53.50	46.50	<del>45.00</del> 40.43	<del>55.00</del> 59.57
SCADA	50.00	50.00	50.00	50.00
BPS Construction	63.30	36.70	<del>63.00</del> 56.00	<del>37.00</del> 44.00
Inline EST Construction	75.00	25.00	75.17	24.83
GBRA Delivery Meter Stations	50.00	50.00	50.00	50.00
Pipeline Segments A Construction	60.00	40.00	56.80	43.20
Pipeline Segment B1 Construction	65.22	34.78	61.90	38.10
Pipeline Segment B2 Construction	69.20	30.80	76.19	23.81
Pipeline Segment D1 Construction	75.17	24.83	75.17	24.83
Pipeline Segment D2 Construction	74.58	25.42	74.58	25.42
Pipeline Segment E Construction	65.22	34.78	65.22	34.78
Land Acquisition, Engineering, Other Support Services	50.00	50.00	50.00	50.00
<b>TOTAL</b>	<b>60.30</b>	<b>39.70</b>	<b>58.37</b>	<b>41.63</b>

NOVEMBER 2020 UPDATE

## COST UPDATES BASED ON SEPTEMBER MILESTONE SUBMITTALS

Submittal (%)	Construction Package	ORIGINAL	REVISED	DIFFERENCE
		ARWA Total Projected Cost	ARWA Total Projected Cost	
	<b>Combined Program Infrastructure</b>		<b>UPDATE</b>	<b>UPDATE</b>
100	Water Treatment Plant	\$ 24,500,000	\$ 28,900,000 26,300,000	\$ 4,400,000 1,800,000
90	SCADA Fiber Backbone	\$ 900,000	\$ 700,000 400,000	(\$ 200,000) (500,000)
90	Booster Pump Station & GBRA Meter Stations	\$ 15,300,000	\$ 15,000,000 12,000,000	(\$ 300,000) (3,300,000)
30	Inline EST (South)	\$ 3,600,000	\$ 3,500,000	(\$ 100,000)
90	Pipeline Segment A	\$ 28,600,000	\$ 24,100,000 23,800,000	(\$ 4,500,000) (4,800,000)
90	Pipeline Segment B	\$ 29,400,000	\$ 34,400,000 31,800,000	\$ 5,000,000 2,400,000
90	Pipeline Segment D	\$ 36,300,000	\$ 35,400,000 36,700,000	(\$ 900,000) 400,000
30	Pipeline Segment E	\$ 9,500,000	\$ 9,800,000	\$ 300,000
	Subtotal	\$148,100,000	\$151,800,000 144,300,000	\$ 3,700,000 (3,800,000)
	<b>ARWA-Only Infrastructure</b>			
Const.	Wellfield	\$ 3,800,000	\$ 3,100,000	(\$ 700,000)
90	Water Treatment Plant	\$ 2,600,000	\$ 2,600,000	No Change
90	ARWA Delivery Points	\$ 6,100,000	\$ 6,900,000 5,500,000	\$ 800,000 (600,000)
30	Inline EST (North)	\$ 5,400,000	\$ 7,600,000	\$ 2,200,000
90	Raw Water Infrastructure	\$ 7,400,000	\$ 11,500,000 10,200,000	\$ 4,100,000 2,800,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
60	Pipeline Segment C	\$ 64,500,000	\$ 68,700,000 62,500,000	\$ 4,200,000 (2,000,000)
30	Pipeline Segment E	\$ 6,700,000	\$ 14,100,000	\$ 7,400,000
	Subtotal	\$100,800,000	\$118,700,000 109,800,000	\$ 17,900,000 9,000,000
	<b>Total</b>	<b>\$248,900,000</b>	<b>\$270,500,000 254,100,000</b>	<b>\$ 21,600,000 5,200,000</b>
	Contingencies	\$65,900,000	\$58,900,000 46,900,000	(\$ 7,000,000) (19,000,000)
	<b>Total with Contingencies</b>	<b>\$314,800,000</b>	<b>\$329,400,000 301,000,000</b>	<b>\$ 14,600,000 (13,800,000)</b>

DECEMBER 2020 UPDATE

CHANGE FROM NOV. UPDATE = (\$ 13,300,000) TOTAL



Questions?



Kimley»Horn

December 4, 2020

## **Project Monthly Summary**

### **November 2020 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 Board Meeting Update.
  - Prepared and presented Project Advisory Committee Meeting Update.
  - Prepared for and held Monthly Status Meeting with Alliance Water.
  
- Task 3 – Budgeting
  - Prepared a draft TWDB Forecast Budget for ARWA’s review and feedback.
  - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
  - Continued development of projected Operation and Maintenance costs and addressed feedback received from ARWA.
  
- Task 4 – Schedule
  - Revised Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
  - Coordinated with Program team to integrate each project schedule into overall Program schedule. Developed the monthly Program schedule summary.
  
- Task 6 – Data Management
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for right-of-entry process and alignment changes.
  
- Task 7 – Environmental Management
  - Review the drafted Segment B and D Hazmat Phase II reports prepared by the Environmental Consultant.
  - Reviewed and submitted the Segment A Hazmat Phase II reports prepared by the Environmental Consultant.
  - Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
  - Coordinated with the Program Environmental Consultant regarding Inline Elevated Storage Tank site field work.
  - Coordinated with the Program Environmental Consultant to prepare a proposal for additional field work needs given the United States Army Corps of Engineers comments.

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

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- Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.
- Performed coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.
- 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 A, B, C, D, and E 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
  - Submitted the next TWDB reimbursement funding release.
  - Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.
  
- Task 10 – Design Standards
  - Review and address comments received from the Design Consultants concerning the Pipeline Construction Standards.
  - Finalized the Cathodic Protection Program Standards given feedback from the PAC and Design Consultants.
  - Revised the Security Standards given feedback from the PAC and Design Consultants.
  - Revised the Fiber Standards given feedback from the PAC and Design Consultants.
  
- Task 11 – Engineering Design Management
  - Pipelines:
    - Segment A



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

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- Continued coordination with Design Consultant for final design.
  - Segment B
    - Continued coordination with Design Consultant for final design.
  - Segment C
    - Began review of the Segment C 60% design submittal prepared by the Design Consultant.
    - Continued coordination with Design Consultant for final design.
    - Backchecked the Draft 30% Engineering Feasibility Report prepared by the 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
    - Began review of the Segment D 90% design submittal prepared by the Design Consultant.
    - Continued coordination with Design Consultant for final design.
  - Segment E
    - Continued coordination with Design Consultant for final design.
    - Backcheck reviewed the Draft 30% Engineering Feasibility Report prepared by the Design Consultant.
- Wellfield:
  - Continued coordination regarding the construction for Wells 6-9.
- Raw Water Infrastructure:
  - Began review of the 100% design submittal prepared by the Design Consultant.
  - Continued coordination with Design Consultant for final design development.
- Water Treatment Plant:
  - Began review of the 100% design submittal prepared by the Design Consultant.
  - Continued coordination with Design Consultant for final design.
- Booster Pump Station:
  - Finalized review of the 90% design submittal prepared by the Design Consultant.
  - Attended 90% Submittal Review Workshop.
  - Coordinated with Design Consultant for final design.
- Inline Elevated Storage Tanks:
  - Continued coordination with Design Consultant for 30% design development.
- Other:

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

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- 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 terms 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 County concerning variance request for the Site Development Permit.
  - Continued coordination with Caldwell and Guadalupe County TxDOT offices concerning roadway crossings.
  - Continued General Coordination with TxDOT.
  - Continued General Coordination with GVEC and BBEC.
  - On-going Permit Tracking Log Updates.
- Task 16 – Other Services
  - Continued evaluation of the Procurement Process, including a comparison of the Competitive Sealed Proposal and Pre-Qualified processes for ARWA’s review and feedback.
  - Coordinate with design consultants and construction management team regarding the ARWA contract document templates and Competitive Sealed Proposal process.
  - Provided a Procurement update presentation to the Project Advisory Committee.
  - Coordinated with design consultants and construction management team regarding the ARWA contract document templates and Competitive Sealed Proposal process.
  - Finalized additional solar analysis and memo to address ARWA’s comments.
  - Commissioning Planning
    - Continued evaluating the commissioning of the Phase 1B infrastructure.
    - Evaluated the anticipated water volume required to commission the Phase 1B infrastructure.

**December 2020 Projection:**

- Task 2 – Stakeholder Coordination
  - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.

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

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- Continue weekly task coordination with Alliance Water.
- Prepare 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
  - Finalize the TWDB Forecast Budget for ARWA’s review and feedback.
  - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
  - Finalize 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.
  
- Task 6 – Data Management
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for right-of-entry process and alignment changes.
  
- Task 7 – Environmental Management
  - Review the Segment B and D Hazmat Phase II reports 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 A, B, C, D, and E parcels.

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

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- 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
  - Coordinate with TWDB concerning the status of latest reimbursement funding release.
  - Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.
  
- Task 10 – Design Standards
  - Finalize and distribute the Pipeline Construction Standards.
  - Finalize the Cathodic Protection Program Standards.
  - Distribute finalized Security Standards given feedback from the PAC and Design Consultants.
  - Distribute finalized Fiber Standards given feedback from the PAC and Design Consultants.
  
- Task 11 – Engineering Design Management
  - Pipelines:
    - Segment A
      - Begin review of the Segment A 100% design submittal prepared by the Design Consultant.
      - Continue coordination with Design Consultant for final design.
      - Finalize and submit the Final 30% Engineering Feasibility Report to the TWDB.
    - Segment B
      - Continue coordination with Design Consultant regarding for final design.
    - Segment C
      - Review the Segment C 60% design submittal prepared by the Design Consultant.
      - Attend the Segment C 60% Design Workshop.

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

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- Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations as part of right-of-entry process and EFR development.
      - Continue coordination with Design Consultant for final design.
    - Segment D
      - Review the Segment D 90% design submittal prepared by the Design Consultant.
      - Attend the Segment D 90% Design Workshop.
      - Continue coordination with Design Consultant for final design.
    - Segment E
      - Review the Segment E 60% design submittal prepared by the Design Consultant.
      - Attend the Segment E 60% Design Workshop.
      - Continue coordination with Design Consultant for final design.
  - Wellfield:
    - Continue coordination regarding the construction of Wells 6-9.
  - Raw Water Infrastructure:
    - Continue coordination with Design Consultant regarding for final design.
  - Water Treatment Plant:
    - Finalize review of the 100% design submittal prepared by the Design Consultant.
    - Attend 100% Submittal Review Workshop.
    - Coordinate with Design Consultant concerning Hydraulics/Surge development.
    - Continue coordination with Design Consultant for final design.
  - Booster Pump Station:
    - Begin review of the 100% design submittal prepared by the Design Consultant.
    - Coordination with Design Consultant for final design.
  - Inline Elevated Storage Tanks:
    - Review the 30% EFR prepared by the design consultant.
    - Coordination with Design Consultant for 30% design development.
  - Other:
    - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield).
    - Review invoices, schedules, and risk logs for consultants
- Task 13 – Electrical Power Planning
    - Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.

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

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- Continue coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 – Permit Coordination/Tracking
  - Attend permit intake review meetings with Caldwell County for Segment B.
  - Continue Permit coordination with Pipeline consultants
  - Coordinate with Hays County concerning the Site Development Permit.
  - General Coordination with TxDOT.
  - Coordinate with Guadalupe County TxDOT office concerning roadway crossings.
  - General Coordination with GVEC and BBEC.
  - Permit Tracking Log Updates.
- Task 16 – Other Services
  - Finalize the Procurement Process, including a comparison of the Competitive Sealed Proposal and Pre-Qualified processes for ARWA’s review and feedback.
  - Coordinate with design consultants and construction management team regarding the ARWA contract document templates and Competitive Sealed Proposal process.
  - 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 the anticipated water volume required to commission the Phase 1B infrastructure.
  - 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, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- F.3** Update, discussion and possible direction to Staff regarding the Authority's Phase 1 Annual Operations & Maintenance Estimates. ~ *Graham Moore, P.E., Executive Director*
- 

Background/Information

Kimley-Horn prepared an Excel workbook to estimate the operations and maintenance expenses associated with the Phase 1 program.

Mr. Moore will go through the assumptions built into the O&M estimates and the next steps.

Attachment(s)

- 2020-12-09 O&M Budgeting

**Technical Committee Decision Needed:**

- Possible direction to Staff.

# ALLIANCE REGIONAL WATER AUTHORITY

## PHASE 1 – OPERATIONS & MAINTENANCE BUDGETING

TECHNICAL COMMITTEE MEETING  
DECEMBER 9, 2020



### O&M COSTS - OVERVIEW

- Costs divided between ARWA & GBRA
- Costs split between Fixed and Variable Costs
- Costs split for each major infrastructure component
- Costs are presented in \$ / 1,000 gallons





# TOTAL SUMMARY

Alliance Regional Water Authority  
Phase 1 Program  
Operations and Maintenance Cost  
Summary

11/17/2020

Item	Notes	Total Program Annual O&M Cost	GBRA Cost Split	ARWA Remainder
<b>Fixed Costs</b>				
Staffing		\$ 1,448,751	\$ 1,072,076	\$ 376,675
Operations		\$ 287,500	\$ 212,750	\$ 74,750
Maxwell BPS		\$ 168,853	\$ 124,951	\$ 43,902
Buda BPS		\$ 61,805	\$ -	\$ 61,805
Delivery Sites		\$ 61,214	\$ 4,666	\$ 56,548
Water Treatment Plant		\$ 437,354	\$ 323,642	\$ 113,712
Pipelines		\$ 384,413	\$ 194,110	\$ 190,303
Well Fields		\$ 101,534	\$ -	\$ 101,534
In-Line Storage		\$ 42,068	\$ 31,130	\$ 10,938
<b>Subtotal - Fixed Costs</b>		<b>\$ 2,993,492</b>	<b>\$ 1,963,325</b>	<b>\$ 1,030,167</b>
<b>Variable Costs</b>				
Maxwell BPS - Power		\$ 98,639	\$ 72,993	\$ 25,646
Buda BPS - Power		\$ 23,516	\$ -	\$ 23,516
Delivery Sites - Power		\$ 11,596	\$ 725	\$ 10,871
WTP - Power		\$ 647,527	\$ 479,170	\$ 168,357
WTP - Chemicals		\$ 689,788	\$ 510,443	\$ 179,345
ARWA Well Fields - Power		\$ 121,351	\$ -	\$ 121,351
<b>Subtotal - Variable Costs</b>		<b>\$ 1,592,417</b>	<b>\$ 1,063,331</b>	<b>\$ 529,086</b>
<b>Total</b>		<b>\$ 4,585,909</b>	<b>\$ 3,026,656</b>	<b>\$ 1,559,253</b>
<b>Cost per 1,000 GAL</b>		<b>\$ 1.73</b>	<b>\$ 1.54</b>	<b>\$ 2.26</b>

ALLIANCE REGIONAL WATER AUTHORITY



## GENERAL ASSUMPTIONS

- Assumptions
  - Year 1 flow averages 7.3 MGD
  - GBRA is expected to account for 75% of flow in Year 1
  - Electric rate is assumed to be \$0.12 / kWh
  - Annual pipeline Maintenance is assumed to be \$0.10 per linear foot. Yields ~\$69,000 annually
  - All infrastructure Maintenance, other than pipelines and pumping equipment, is assumed to be 0.75% of initial capital cost. Yields ~\$365,000 annually

ALLIANCE REGIONAL WATER AUTHORITY



## STAFFING

- **Assumptions**

- Operate 12 hours per day, Mon-Fri with Check-In on weekends
- Staffing based on 2019 staffing projections
- 100% of costs for dedicated operational staff
- Variable amount allocated to O&M for all other positions (Exec Dir – 50%, Dir of Ops – 75%, Finance – 85% & Admin Asst – 75%)
- Includes all personnel taxes, healthcare, supplies, training, etc.

## PUMPING EQUIPMENT

- **Assumptions**

- Manufacturer recommended maintenance was used to estimate the annual cost per pumping unit. Costs are annualized based on an assumed life of 40 years.
- Pump run time for electrical power cost calculations were assumed based on expected flow rate and pump capacities.

# CHEMICALS

- **Assumptions**

- Chemical consumption was estimated based on the design engineers estimated average doses.
- The numbers were modified lower after comparisons were made to the chemical dosing used by CRWA at their Wells Ranch WTP.
- Costs for the chemicals were based on quotes supplied by Brenntag & AirGas.
- The chemical dosages can be revisited once we have raw water quality data from both well fields.

## EFFECT OF VARYING MAINTENANCE RATE

- The table below shows the effect of changing the maintenance % rate on the overall O&M per 1,000 gallon rate and the annual amount generated

<b>Maintenance Percent of Const*</b>	<b>Total O&amp;M rate per 1,000 GAL</b>	<b>Annual \$ generated</b>
1.50%	\$ 1.86	\$ 727,466
1.25%	\$ 1.82	\$ 606,505
1.00%	\$ 1.77	\$ 484,944
0.75%	\$ 1.73	\$ 364,683
0.50%	\$ 1.68	\$ 243,222
0.25%	\$ 1.64	\$ 122,761
0.00%	\$ 1.59	\$ -

## NEXT STEPS

- Continue to evaluate the costs for each item as the designs progress.
- Evaluate whether to pursue third-party operations of the system.

## QUESTIONS

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- F.4** Discussion of legislative issues for the 87th Texas Legislature, and possible direction to Staff. ~ *Graham Moore, P.E., Executive Director*
- 

Background/Information

On the following pages is a list of bills that have been filed that may be of interest to the Authority as of December 2, 2020. The list will continue to be updated and/or revised as new bills are filed and when they are assigned to committees.

Attachment(s)

- ARWA Bill Tracking as of 12/2/2020

**Technical Committee Decision Needed:**

- Possible direction to Staff.

**ARWA Bill Tracking – 2020 / 87th Texas Legislature**

<b>ARWA – Bills to Monitor (as of 12/02/2020)</b>				
<u>Bill Number</u>	<u>Sponsor</u>	<u>General Information</u>	<u>Committee</u>	<u>ARWA Position</u>
<b>HB 263</b>	Meza	<ul style="list-style-type: none"> <li>• Relating to rest breaks for employees of certain contractors with a governmental entity</li> </ul>		
<b>HB 348</b>	Zwiener	<ul style="list-style-type: none"> <li>• Relating to a requirement to make certain environmental and water use permit applications available online</li> </ul>		
<b>HB 666</b> <b>HB 668</b> <b>SB 152</b>	Harris Harris Perry	<ul style="list-style-type: none"> <li>• Relating to regulation of groundwater conservation districts</li> <li>• Award of attorney fees is optional</li> <li>• Groundwater rights owner can petition for rule-making</li> <li>• Notice of permit to adjacent landowners</li> </ul>		
<b>HB 692</b>	Shine	<ul style="list-style-type: none"> <li>• Relates to retainage requirements for certain public works construction projects</li> </ul>		

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- F.5** 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 December 8th.

Plum Creek Conservation District (PCCD)  
The PCCD is scheduled to meet on December 15th.

Groundwater Management Area 13  
The next GMA-13 meeting is scheduled for February 5th.

Region L Planning Group  
No update.

Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities  
No update.

**Technical Committee decision needed:**

- None.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- 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*

GVEC Coordination

- The closing for the 5-acre site to be deeded to GVEC is scheduled to occur on Thursday, December 17<sup>th</sup>.

Board Meeting

- The December Board meeting will be held Virtually on Wednesday, December 16<sup>th</sup>.

Consultant Invoices Paid

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

**FY 19-20 CONSULTANT INVOICES PAID in OCTOBER 2020**

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
Mark B. Taylor	\$17,500.00	\$0.00	\$12,895.00	74%	\$4,605.00	
LAN - Kyle/Buda Design	\$122,484.31	\$0.00	\$45,512.69	37%	\$76,971.62	
Patricia Ehrlinger Carls	\$25,000.00	\$0.00	\$13,267.19	53%	\$11,732.81	
RW Harden	\$40,000.00	\$0.00	\$13,449.25	34%	\$26,550.75	
Tx Solutions Group	\$72,000.00	\$6,000.00	\$72,000.00	100%	\$0.00	
BGE - Ph 1A CA	\$53,938.59	\$0.00	\$46,828.51	87%	\$7,110.08	
LAN - ROW Acquisition	\$32,110.04	\$0.00	\$0.00	0%	\$32,110.04	
Kent Alan Sick - ROW Legal	\$45,000.00	\$0.00	\$47,577.36	106%	(\$2,577.36)	
LNV - Ph 1A Observations	\$4,006.84	\$0.00	\$3,470.00	87%	\$536.84	
LNV - GIS Svcs	\$30,777.63	\$1,431.50	\$15,515.50	50%	\$15,262.13	
MLA Labs, Inc. - Pump Station	\$10,814.00	\$0.00	\$2,965.00	27%	\$7,849.00	
Armstrong, Vaughan & Associates, P.C.	\$10,715.00	\$0.00	\$10,715.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$230,985.00	\$21,826.00	\$206,621.00	89%	\$24,364.00	
Lloyd Gosselink Rochelle & Townsend	\$92,105.00	\$14,915.40	\$84,836.31	92%	\$7,268.69	
MLA Labs, Inc. - Segment B	\$13,118.00	\$0.00	\$6,345.00	48%	\$6,773.00	
CD&P - Public Relations	\$50,000.00	\$14,595.50	\$14,595.50	29%	\$35,404.50	
<b>Total</b>	<b>\$850,554.41</b>	<b>\$58,768.40</b>	<b>\$596,593.31</b>		<b>\$253,961.10</b>	



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**FY 20-21 CONSULTANT INVOICES PAID in OCTOBER 2020**

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
LAN - Kyle/Buda Design	\$76,971.62	\$2,110.00	\$2,110.00	3%	\$74,861.62	
RW Harden	\$30,000.00	\$0.00	\$0.00	0%	\$30,000.00	
Tx Solutions Group	\$72,000.00	\$0.00	\$0.00	0%	\$72,000.00	
BGE - Ph 1A CA	\$7,110.08	\$0.00	\$0.00	0%	\$7,110.08	
Kent Alan Sick - ROW Legal	\$45,000.00	\$0.00	\$0.00	0%	\$45,000.00	
LNV - GIS Svcs	\$16,693.63	\$0.00	\$0.00	0%	\$16,693.63	
Armstrong, Vaughan & Associates, P.C.	\$10,930.00	\$0.00	\$0.00	0%	\$10,930.00	
J.R. Tolles & Associates, Inc.	\$245,000.00	\$0.00	\$0.00	0%	\$245,000.00	
Lloyd Gosselink Rochelle & Townsend	\$105,000.00	\$0.00	\$0.00	0%	\$105,000.00	
CD&P - Public Relations	\$35,404.50	\$0.00	\$0.00	0%	\$35,404.50	
MLA Labs, Inc. - Segment B	\$6,773.00	\$0.00	\$0.00	0%	\$6,773.00	
<b>Total</b>	<b>\$650,882.83</b>	<b>\$2,110.00</b>	<b>\$2,110.00</b>		<b>\$648,772.83</b>	

**FY 19-20 CONSULTANT INVOICES PAID in NOVEMBER 2020**

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
Mark B. Taylor	\$17,500.00	\$0.00	\$12,895.00	74%	\$4,605.00	
LAN - Kyle/Buda Design	\$122,484.31	\$0.00	\$45,512.69	37%	\$76,971.62	
Patricia Ehrlinger Carls	\$25,000.00	\$0.00	\$13,267.19	53%	\$11,732.81	
RW Harden	\$40,000.00	\$0.00	\$13,449.25	34%	\$26,550.75	
Tx Solutions Group	\$72,000.00	\$6,000.00	\$72,000.00	100%	\$0.00	
BGE - Ph 1A CA	\$53,938.59	\$2,387.00	\$49,215.51	91%	\$4,723.08	
LAN - ROW Acquisition	\$32,110.04	\$0.00	\$0.00	0%	\$32,110.04	
Kent Alan Sick - ROW Legal	\$45,000.00	\$0.00	\$47,577.36	106%	(\$2,577.36)	
LNV - Ph 1A Observations	\$4,006.84	\$0.00	\$3,470.00	87%	\$536.84	
LNV - GIS Svcs	\$30,777.63	\$1,431.50	\$15,515.50	50%	\$15,262.13	
MLA Labs, Inc. - Pump Station	\$10,814.00	\$0.00	\$2,965.00	27%	\$7,849.00	
Armstrong, Vaughan & Associates, P.C.	\$10,715.00	\$0.00	\$10,715.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$230,985.00	\$21,826.00	\$206,621.00	89%	\$24,364.00	
Lloyd Gosselink Rochelle & Townsend	\$92,105.00	\$14,915.40	\$84,836.31	92%	\$7,268.69	
MLA Labs, Inc. - Segment B	\$13,118.00	\$0.00	\$6,345.00	48%	\$6,773.00	
CD&P - Public Relations	\$50,000.00	\$14,595.50	\$14,595.50	29%	\$35,404.50	
<b>Total</b>	<b>\$850,554.41</b>	<b>\$61,155.40</b>	<b>\$598,980.31</b>		<b>\$251,574.10</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**FY 20-21 CONSULTANT INVOICES PAID in NOVEMBER 2020**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/ Anomalies</b>
LAN - Kyle/Buda Design	\$76,971.62	\$1,355.00	\$3,465.00	5%	\$73,506.62	
RW Harden	\$30,000.00	\$0.00	\$0.00	0%	\$30,000.00	
Tx Solutions Group	\$72,000.00	\$6,000.00	\$6,000.00	8%	\$66,000.00	
BGE - Ph 1A CA	\$7,110.08	\$0.00	\$0.00	0%	\$7,110.08	
Kent Alan Sick - ROW Legal	\$45,000.00	\$3,144.90	\$3,929.34	9%	\$41,070.66	
LNV - GIS Svcs	\$16,693.63	\$1,155.00	\$1,155.00	7%	\$15,538.63	
Armstrong, Vaughan & Associates, P.C.	\$10,930.00	\$0.00	\$0.00	0%	\$10,930.00	
J.R. Tolles & Associates, Inc.	\$245,000.00	\$18,956.00	\$18,956.00	8%	\$226,044.00	
Lloyd Gosselink Rochelle & Townsend	\$105,000.00	\$0.00	\$0.00	0%	\$105,000.00	
CD&P - Public Relations	\$35,404.50	\$0.00	\$0.00	0%	\$35,404.50	
MLA Labs, Inc. - Segment B	\$6,773.00	\$398.00	\$398.00	6%	\$6,375.00	
<b>Total</b>	<b>\$650,882.83</b>	<b>\$31,008.90</b>	<b>\$33,903.34</b>		<b>\$616,979.49</b>	

- Below is the report on the Phase 1B invoices paid in October.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**PHASE 1B FY 19-20 CONSULTANT INVOICES PAID in OCTOBER 2020**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/Anomalies</b>
Kimley-Horn Ph 1B Owner's Rep W03	\$1,372,351.19	\$0.00	\$1,364,772.77	99%	\$7,578.42	
Kimley-Horn Ph 1B Owner's Rep W04	\$3,110,422.00	\$257,232.83	\$1,530,991.60	49%	\$1,579,430.40	
Blanton - Environmental	\$1,596,507.08	\$0.00	\$999,575.57	63%	\$596,931.51	
LAN - Segment A Prelim	\$182,524.80	\$0.00	\$66,160.60	36%	\$116,364.20	
LAN - Segment A Final	\$2,051,778.00	\$0.00	\$1,475,712.04	72%	\$576,065.96	
KFA - Segment B Prelim	\$118,202.94	\$0.00	\$104,927.00	89%	\$13,275.94	
KFA - Segment B Final	\$1,943,999.13	\$0.00	\$1,039,140.49	53%	\$904,858.64	
BGE - Segment C Prelim	\$196,631.20	\$0.00	\$160,054.32	81%	\$36,576.88	
BGE - Segment C Final	\$2,688,310.00	\$0.00	\$108,287.15	4%	\$2,580,022.85	
FNI - Segment D Prelim	\$73,867.86	\$0.00	\$10,334.20	14%	\$63,533.66	
FNI - Segment D Final	\$2,025,298.00	\$0.00	\$752,433.12	37%	\$1,272,864.88	
Walker - Segment E Prelim	\$283,489.60	\$0.00	\$223,459.58	79%	\$60,030.02	
Walker - Segment E Final	\$1,234,982.00	\$0.00	\$72,891.92	6%	\$1,162,090.08	
LAN - ROW Acquisition	\$2,145,847.22	\$105,754.11	\$544,746.94	25%	\$1,601,100.28	
DTR&G	\$894,535.31	\$45,458.82	\$371,816.01	42%	\$522,719.30	
CBRE - Appraisals	\$2,291,500.00	\$100,600.00	\$507,350.00	22%	\$1,784,150.00	
CP&Y - Survey	\$2,019,932.20	\$110,110.50	\$1,034,952.20	51%	\$984,980.00	
RW Harden - WDH	\$28,420.00	\$0.00	\$28,420.00	100%	\$0.00	
RW Harden - WDH Const Admin	\$384,200.00	\$0.00	\$12,518.40	3%	\$371,681.60	
LNV - RWI	\$1,100,560.45	\$0.00	\$766,978.95	70%	\$333,581.50	
Walker Partners - WTP Prelim Design	\$254,937.12	\$0.00	\$253,663.76	100%	\$1,273.36	
Walker Partners - WTP Final Design	\$3,094,373.00	\$0.00	\$1,848,635.32	60%	\$1,245,737.68	
FNI - BPS Prelim	\$292,827.88	\$0.00	\$283,282.88	97%	\$9,545.00	
FNI - BPS Final	\$1,753,196.00	\$0.00	\$676,209.52	39%	\$1,076,986.48	
Plummer - Inline Elevated Tank	\$87,509.05	\$0.00	\$36,145.78	41%	\$51,363.27	
Pape-Dawson - CM&I W0#1	\$64,280.00	\$0.00	\$47,399.56	74%	\$16,880.44	
Pape-Dawson - CM&I W0#2	\$189,790.00	\$0.00	\$42,290.00	22%	\$147,500.00	
Hicks & Co - WDH Environmental	\$23,938.75	\$8,064.75	\$8,064.75	34%	\$15,874.00	
<b>Total</b>	<b>\$31,504,210.78</b>	<b>\$627,221.01</b>	<b>\$14,371,214.43</b>		<b>\$17,132,996.35</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**PHASE 1B FY 20-21 CONSULTANT INVOICES PAID in OCTOBER 2020**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/Anomalies</b>
Kimley-Horn Ph 1B Owner's Rep W03	\$1,372,351.19	\$0.00	\$1,364,772.77	99%	\$7,578.42	
Kimley-Horn Ph 1B Owner's Rep W04	\$3,110,422.00	\$257,232.83	\$1,530,991.60	49%	\$1,579,430.40	
Blanton - Environmental	\$1,596,507.08	\$0.00	\$999,575.57	63%	\$596,931.51	
LAN - Segment A Prelim	\$182,524.80	\$0.00	\$66,160.60	36%	\$116,364.20	
LAN - Segment A Final	\$2,051,778.00	\$0.00	\$1,475,712.04	72%	\$576,065.96	
KFA - Segment B Prelim	\$118,202.94	\$0.00	\$104,927.00	89%	\$13,275.94	
KFA - Segment B Final	\$1,998,654.13	\$0.00	\$1,039,140.49	52%	\$959,513.64	
BGE - Segment C Prelim	\$196,631.20	\$0.00	\$160,054.32	81%	\$36,576.88	
BGE - Segment C Final	\$2,744,960.85	\$0.00	\$108,287.15	4%	\$2,636,673.70	
FNI - Segment D Prelim	\$73,867.86	\$0.00	\$10,334.20	14%	\$63,533.66	
FNI - Segment D Final	\$2,025,298.00	\$0.00	\$752,433.12	37%	\$1,272,864.88	
Walker - Segment E Prelim	\$283,489.60	\$0.00	\$223,459.58	79%	\$60,030.02	
Walker - Segment E Final	\$1,234,982.00	\$0.00	\$72,891.92	6%	\$1,162,090.08	
LAN - RDW Acquisition	\$1,601,100.28	\$59,174.73	\$544,746.94	34%	\$1,056,353.34	
DTR&G	\$894,535.31	\$45,458.82	\$371,816.01	42%	\$522,719.30	
CBRE - Appraisals	\$2,291,500.00	\$100,600.00	\$507,350.00	22%	\$1,784,150.00	
CP&Y - Survey	\$2,019,932.20	\$110,110.50	\$1,034,952.20	51%	\$984,980.00	
Rw Harden - WDH Const Admin	\$384,200.00	\$0.00	\$12,518.40	3%	\$371,681.60	
LNV - RWI	\$1,100,560.45	\$0.00	\$766,978.95	70%	\$333,581.50	
Walker Partners - WTP Final Design	\$3,094,373.00	\$0.00	\$1,848,635.32	60%	\$1,245,737.68	
FNI - BPS Prelim	\$292,827.88	\$0.00	\$283,282.88	97%	\$9,545.00	
FNI - BPS Final	\$1,753,196.00	\$0.00	\$676,209.52	39%	\$1,076,986.48	
Plummer - Inline Elevated Tank	\$87,509.05	\$0.00	\$36,145.78	41%	\$51,363.27	
Pape-Dawson - CM&I W0#1	\$64,280.00	\$0.00	\$47,399.56	74%	\$16,880.44	
Pape-Dawson - CM&I W0#2	\$189,790.00	\$0.00	\$42,290.00	22%	\$147,500.00	
Hicks & Co - WDH Environmental	\$23,938.75	\$8,064.75	\$8,064.75	34%	\$15,874.00	
<b>Total</b>	<b>\$31,042,349.69</b>	<b>\$580,641.63</b>	<b>\$14,342,794.43</b>		<b>\$16,699,555.26</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**PHASE 1B FY 19-20 CONSULTANT INVOICES PAID in NOVEMBER 2020**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/Anomalies</b>
Kimley-Horn Ph 1B Owner's Rep W03	\$1,372,351.19	\$0.00	\$1,364,772.77	99%	\$7,578.42	
Kimley-Horn Ph 1B Owner's Rep W04	\$3,110,422.00	\$260,396.88	\$1,791,388.48	58%	\$1,319,033.52	
Blanton - Environmental	\$1,596,507.08	\$150,025.23	\$1,149,600.80	72%	\$446,906.28	
LAN - Segment A Prelim	\$182,524.80	\$0.00	\$66,160.60	36%	\$116,364.20	
LAN - Segment A Final	\$2,051,778.00	\$98,162.69	\$1,573,874.73	77%	\$477,903.27	
KFA - Segment B Prelim	\$118,202.94	\$0.00	\$104,927.00	89%	\$13,275.94	
KFA - Segment B Final	\$1,943,999.13	\$184,218.31	\$1,223,358.80	63%	\$720,640.33	
BGE - Segment C Prelim	\$196,631.20	\$0.00	\$160,054.32	81%	\$36,576.88	
BGE - Segment C Final	\$2,688,310.00	\$0.00	\$108,287.15	4%	\$2,580,022.85	
FNI - Segment D Prelim	\$73,867.86	\$0.00	\$10,334.20	14%	\$63,533.66	
FNI - Segment D Final	\$2,025,298.00	\$284,900.66	\$1,037,333.78	51%	\$987,964.22	
Walker - Segment E Prelim	\$283,489.60	\$1,392.01	\$224,851.59	79%	\$58,638.01	
Walker - Segment E Final	\$1,234,982.00	\$43,925.96	\$116,817.88	9%	\$1,118,164.12	
LAN - ROW Acquisition DTR&G	\$2,145,847.22	\$0.00	\$544,746.94	25%	\$1,601,100.28	
CBRE - Appraisals	\$894,535.31	\$0.00	\$371,816.01	42%	\$522,719.30	
CP&Y - Survey	\$2,291,500.00	\$0.00	\$507,350.00	22%	\$1,784,150.00	
CP&Y - Survey	\$2,019,932.20	\$0.00	\$1,034,952.20	51%	\$984,980.00	
Rw Harden - WDH	\$28,420.00	\$0.00	\$28,420.00	100%	\$0.00	
Rw Harden - WDH Const Admin	\$384,200.00	\$8,018.00	\$26,046.40	7%	\$358,153.60	
LNV - RWI	\$1,100,560.45	\$92,206.84	\$875,046.59	80%	\$225,513.86	
Walker Partners - WTP Prelim Design	\$254,937.12	\$0.00	\$253,663.76	100%	\$1,273.36	
Walker Partners - WTP Final Design	\$3,094,373.00	\$311,089.20	\$2,159,724.52	70%	\$934,648.48	
FNI - BPS Prelim	\$292,827.88	\$0.00	\$283,282.88	97%	\$9,545.00	
FNI - BPS Final	\$1,753,196.00	\$161,400.51	\$837,610.03	48%	\$915,585.97	
Plummer - Inline Elevated Tank	\$87,509.05	\$0.00	\$36,145.78	41%	\$51,363.27	
Pape-Dawson - CM&I W0#1	\$64,280.00	\$0.00	\$47,399.56	74%	\$16,880.44	
Pape-Dawson - CM&I W0#2	\$189,790.00	\$0.00	\$42,290.00	22%	\$147,500.00	
Hicks & Co - WDH Environmental	\$23,938.75	\$0.00	\$8,064.75	34%	\$15,874.00	
<b>Total</b>	<b>\$31,504,210.78</b>	<b>\$1,595,736.29</b>	<b>\$15,988,321.52</b>		<b>\$15,515,889.26</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- See below for Change Orders approved in October 2020.

<b>CHANGE ORDERS APPROVED IN OCTOBER 2020</b>				
<b>Consultant</b>	<b>Original Authorization</b>	<b>Change Orders to Date</b>	<b>Change Order Approved this Month</b>	<b>New Total Contract Amount</b>
Walker Partners: 1B Segment E	\$ 408,755.00	\$ 164,719.00	\$ -	\$ 573,474.00
Black Castle - Phase 1A BPS Construction	\$ 4,999,080.00	\$ 111,827.56	\$ -	\$ 5,110,907.56
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	\$ 25,834.00	\$ -	\$ 2,025,298.00
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 148,701.00	\$ -	\$ 2,051,778.00
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	\$ 167,660.13	\$ 54,655.00	\$ 1,878,842.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
Walker Partners: 1B WTP (Final)	\$ 2,900,402.00	\$ 193,971.00	\$ -	\$ 3,094,373.00
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 37,277.00	\$ 35,990.00	\$ 1,455,977.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 44,561.00	\$ -	\$ 1,234,982.00
JR Tolles: 1A CM&I	\$ 210,000.00	\$ 41,000.00	\$ -	\$ 251,000.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 164,938.00	\$ 164,938.00	\$ 2,853,248.00

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
 Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- See below for Change Orders approved in November 2020

<b>CHANGE ORDERS APPROVED IN NOVEMBER 2020</b>				
<b>Consultant</b>	<b>Original Authorization</b>	<b>Change Orders to Date</b>	<b>Change Order Approved this Month</b>	<b>New Total Contract Amount</b>
Walker Partners: 1B Segment E	\$ 408,755.00	\$ 164,719.00	\$ -	\$ 573,474.00
Black Castle - Phase 1A BPS Construction	\$ 4,999,080.00	\$ 111,827.56	\$ -	\$ 5,110,907.56
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	\$ 44,216.75	\$ 18,382.75	\$ 2,043,680.75
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 148,701.00	\$ -	\$ 2,051,778.00
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	\$ 167,660.13	\$ -	\$ 1,878,842.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
Walker Partners: 1B WTP (Final)	\$ 2,900,402.00	\$ 193,971.00	\$ -	\$ 3,094,373.00
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 37,277.00	\$ -	\$ 1,455,977.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 44,561.00	\$ -	\$ 1,234,982.00
JR Tolles: 1A CM&I	\$ 210,000.00	\$ 41,000.00	\$ -	\$ 251,000.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 237,091.00	\$ -	\$ 2,925,401.00

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

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

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



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

- I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*
- A. *Water supply partnership options*
  - B. *Groundwater leases*
  - C. *Acquisition of real property for water supply project purposes*
-

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**I.2** Action from Executive Session on the following matters:

- A. *Water supply partnership options*
  - B. *Groundwater leases*
  - C. *Acquisition of real property for water supply project purposes*
-

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**  
Wednesday, November 11th, 2020 at 3:00 P.M.  
Conference Call Number: 1-903-405-2572; Code: 866 044 449#

**J. ADJOURNMENT**

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