

**Alliance Regional Water Authority
Technical Committee**

REGULAR MEETING



ALLIANCE WATER

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

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

Meeting ID: 982 8616 3170

Passcode: 495028

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

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, September 14th, 2022. The public may participate in this meeting by calling the following number and code:

ZOOM MEETING LINK

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

Meeting ID: 982 8616 3170

Passcode: 495028

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 September 14, 2022. 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 August 10, 2022. ~ *Graham Moore, P.E., Executive Director*

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

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

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

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- F.3 Possible recommendation to the Board to approve change order with Garney Construction, Inc. adding portions of pipeline segments B2, C and D into the Phase 1B Segment B Project with Garney Companies, Inc. ~ *Graham Moore, P.E., Executive Director*
- F.4 Update, discussion and possible direction to Staff regarding the Authority's request to the Texas Water Development Board for additional SWIFT Funding. ~ *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

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

Derrick Turley

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

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

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C. PUBLIC COMMENT PERIOD

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

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

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D. CONSENT AGENDA

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

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D.1 Consider approval of minutes of the Technical Committee Meeting held August 10, 2022. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2022 08 10 Technical Committee Meeting Minutes

Technical Committee decision needed:

- Approval of minutes.



ALLIANCE WATER

Alliance Regional Water Authority

TECHNICAL COMMITTEE MEETING

MINUTES

Wednesday, August 10, 2022

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, August 10, 2022 by telephonic conference call.

A. CALL TO ORDER.

The Alliance Water Technical Committee Meeting was called to order at 3:01 p.m. by Mr. Neffendorf.

B. ROLL CALL.

- **Present: Neffendorf, Kite, Ramos Samford and Franke.**
- **Absent: Earp and Urbanovsky.**

C. PUBLIC COMMENT PERIOD

- **None.**

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held July 13, 2022.

- **Motion to adopt the minutes as presented was made by Mr. Ramos, seconded by Mr. Neffendorf and approved on a 5-0 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 construction of the Authority's Phase 1B program.
- **Mr. Noe with Pape-Dawson provided an update on the Phase 1B construction.**
 - **No Action.**
- F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program.
- **Mr. Sowa with Kimley-Horn provided an update on the Phase 1B program.**
 - **No Action.**
- F.3 Possible recommendation to the Board to contingently award a construction contract for the Authority's Phase 1B Segment D Pipeline Project.
- **Mr. Moore presented the Segment D bids and the recommendation from the review committee.**
 - **Mr. Ramos asked if we were able to leverage Garney for this bid, since they were selected for Segments A and B.**
 - **Mr. Moore responded that Garney submitted a bid, but that SJ Louis is the recommended contractor based on the overall scoring.**
 - **Motion to recommend to the Board contingent award of the Phase 1B Segment D Pipeline Project to SJ Louis was made by Mr. Ramos, seconded by Mr. Kite and approved on a 5-0 vote.**
- F.4 Possible recommendation to the Board to authorize a Work Order with Freese & Nichols, Inc. for construction administration services on the Authority's Phase 1B Segment D Pipeline Project.
- **Motion to recommend to the Board authorization of a Work Order with Freese & Nichols for construction administration services on the Segment D Pipeline Project as presented, was made by Mr. Ramos, seconded by Mr. Samford and approved on a 5-0 vote.**
- F.5 Update, 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.
- **Mr. Kite asked who is responsible for inspection of the delivery point work.**
 - **Mr. Moore responded that Alliance Water will be responsible for inspecting the portion of the delivery point that will be turned over to Alliance Water.**
 - **Motion to recommend to the Board the addition of a new delivery point for Kyle on the Segment C Pipeline was made by Mr. Kite, seconded by Mr. Ramos and approved on a 5-0 vote.**

- F.6 Update, discussion and possible direction to Staff regarding the Authority's request to the Texas Water Development Board for additional SWIFT Funding.
- **Mr. Kite requested updated debt service tables.**
 - **Mr. Moore will provide this update at the August Board meeting.**
 - **No Action.**
- F.7 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
- **Mr. Moore provided an update.**
 - **No Action.**

G. EXECUTIVE DIRECTOR REPORT

- **No Action.**

H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS

- **Mr. Samford asked for an update on lead and copper sampling and water quality as well as water projections.**

I. EXECUTIVE SESSION

- I.1 The Board of Directors recessed into Executive Session at 3:48 p.m. pursuant of the Government Code, Section 551.071, to seek the General Counsel's advice regarding matters involving attorney-client privilege, Section 551.072 to discuss water supply project partnership options. The Board of Directors reconvened from Executive Session at 4:20 p.m.
- I.2 Action from Executive Session on the following matters:
- A. Water supply partnership options
 - B. Groundwater leases
 - C. Permit Applications filed at the Gonzales County Underground Water Conservation District
 - D. Acquisition of real property for water supply project purposes
- **No Action.**

J. ADJOURNMENT

- **Meeting was adjourned at 4:21 p.m. based on the motion by Mr. Kite, seconded by Mr. Samford and approved on a 5-0 vote.**

APPROVED: _____, 2022

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

Background/Information

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

Attachment(s)

- Phase 1B Construction Update – September 14, 2022

Technical Committee Decisions Needed:

- None.



PHASE 1B CONSTRUCTION UPDATE

TECHNICAL COMMITTEE MEETING

CMI Progress

September 9, 2022

Water Resources | Transportation | Land Development | Surveying | Environmental

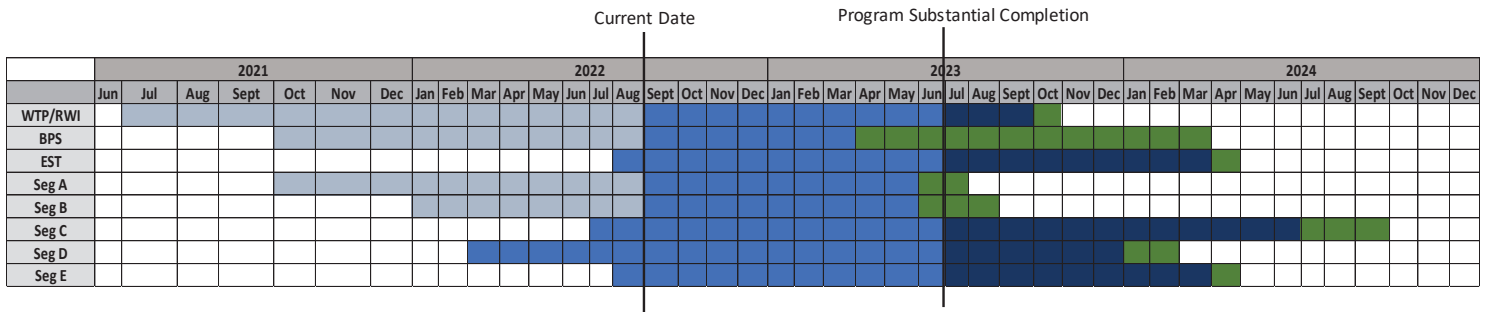


PROGRAM CONTRACT VALUES



PROJECT	CURRENT CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$ 55,002,687.00	\$22,731,498.64	\$32,271,188.36	41.33%
BPS	\$19,706,258.71	\$8,894,176.86	\$10,812,081.85	45.13%
EST	\$0.00	\$0.00	\$0.00	0.00%
Seg A	\$49,471,384.71	\$21,910,697.77	\$27,560,686.94	44.29%
Seg B	\$37,629,104.42	\$7,946,283.21	\$29,682,821.21	21.12%
Seg D	\$0.00	\$0.00	\$0.00	0.00%
Seg C	\$0.00	\$0.00	\$0.00	0.00%
Seg E	\$0.00	\$0.00	\$0.00	0.00%

PROGRAM SCHEDULE DURATIONS

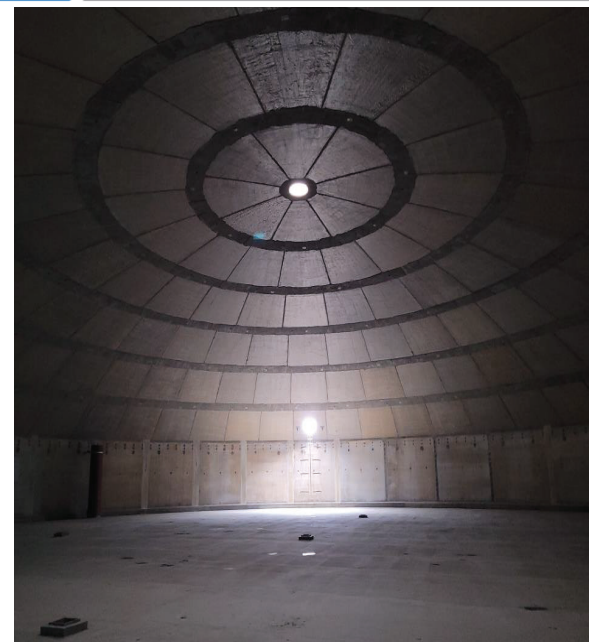


Project	Notice to Proceed	Contract Dates			Program Sub Completion Status (June 2023)
		Original Sub Completion	Current Sub Completion	Final Completion	
WTP/RWI	7/16/2021	7/16/2023	9/3/2023	11/2/2023	Behind 9 wks
BPS	10/25/2021	3/19/2023		3/18/2024	On Time
Seg A	11/16/2021	6/9/2023		10/7/2023	On Time
Seg B	2/15/2022	5/15/2023		10/8/2023	On Time

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

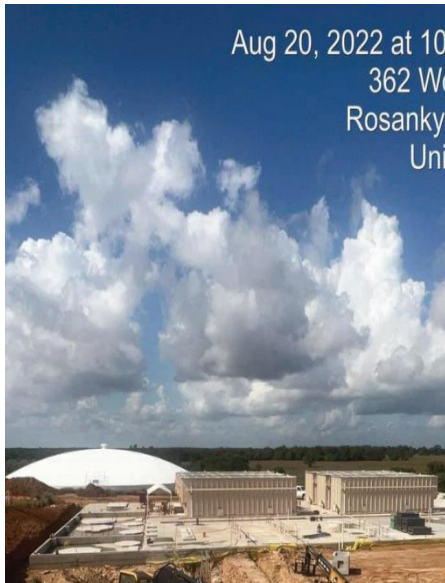
Construction Status

- Archer Western placed the six filter units onto the housekeeping pads and worked on the installation of the electrical ductbanks entering the electrical room of the Filter Complex.
- Archer Western began the installation of the concrete formwork for the walls at the Rapid Mix Basin.
- Archer Western continued the installation of the raw waterlines for sections WL-C and WL-A.
- Archer Western completed the concrete encasement of the pump cans, and the backfill of the high service pump station. The pump suction piping was installed at each pump can.
- DN Tanks completed construction of the Clearwell and Raw Water tanks
- The final application of Tamscoat was applied to the Clearwell exterior, along with the installation of the tank appurtenances.
- DN Tanks filled the relief holes in the bottom of the Clearwell.
- Archer Western intends to begin filling the Clearwell from the ARWA test well though a 2" HDPE line.



Raw Water Tank Clearwell Ladder

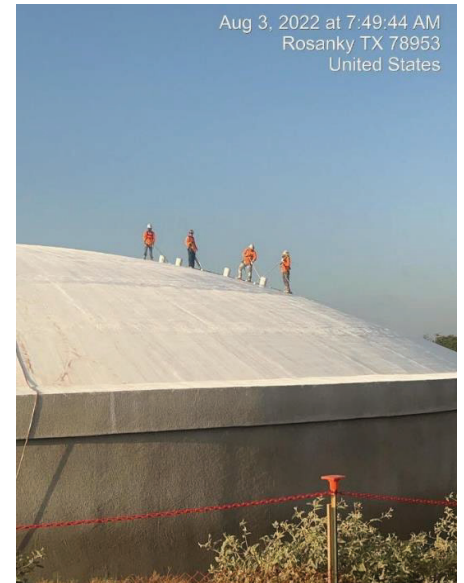
WTP/WRI - PROGRESS PHOTOS



WTP – Filter Units Set at Filter Complex



WTP – Electrical Conduits Entering Filter Complex



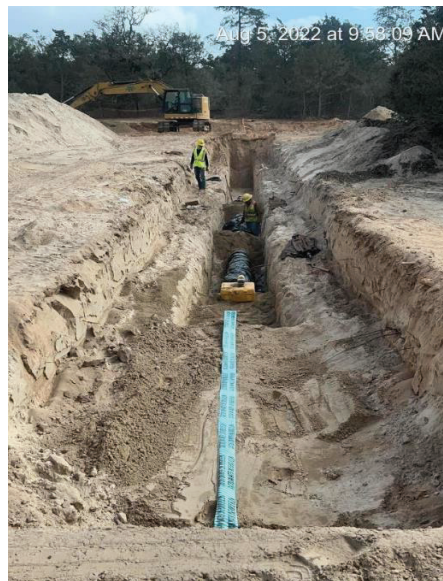
WTP – Clearwell Tamscoat Application

5

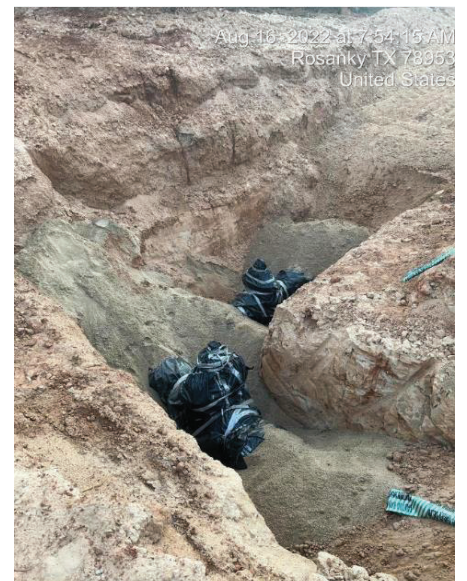
WTP/WRI - PROGRESS PHOTOS



WTP – Casing & Fiber Conduits on Raw Waterline WL-A at STA-23+80



WTP – Raw Waterline WL-A near STA 21+20



WTP – 16" & 12" Gate Valves at Intersection of WL-A & WL-C

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

Next Month - Projected Construction Activities

- Continue construction of the Rapid Mix Basin
- Complete installation of WL-A and WL-C
- Begin installation of 36" raw waterline yard piping to Raw Water tanks
- Continue construction of the Lime System foundation
- Continue construction of the CO2 system foundation
- Continue installation of the HSPS suction piping and valves
- Continue installation of site electrical and fiber ductbanks
- Begin installation of the masonry walls at the Filter Complex
- Install Plate Settler Equipment
- Begin electrical building excavation and underground electrical installation



Filter Installation

Booster Pump Station (MWH / Friese and Nichols)

Construction Status

- MWH did not perform work at the pump station this period, awaiting steel piping deliveries for the installation of the suction and discharge headers.
- MWH continued the installation of the Segment B1 42" DIP, to approximately STA 3+43. Cathodic jumpers installed at the bell joints.
- MWH began the installation of the 42" Segment C pipeline, beginning at approximately STA 0+80 and continuing to the 42"x24" Tee at STA 12+24. Cathodic protection jumpers were installed at all bell joints.
- Preload continued with the wire winding and shotcrete on the exterior of the GST.
- The interior shoring for the dome roof was removed this period.
- Preload coordinated with MWH and Alterman, to provide shotcrete pilasters for anchoring of the lightning protection system conduits
- Alterman continued the rough-in of the electrical conduits for the transformer pad, generator pad and the electrical building.
- Alterman began the installation of ductbanks that exit the electrical building
- MWH placed the crushed limestone base underneath the electrical building of the electrical conduits.
- No work was performed at the detention pond this period, pending direction from the engineer with regards to the ongoing drainage easement issue.



BPS – GST

BPS- PROGRESS PHOTOS

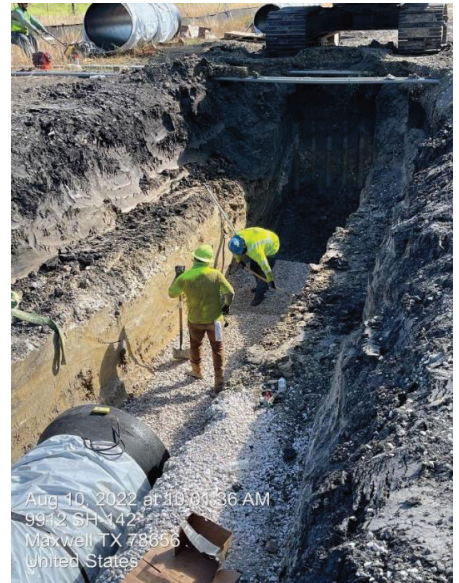


Aug 29, 2022 at 1:41:39 PM
9675 SH-142
Maxwell TX 78656
United States

BPS – 42" DI Seg B1 near STA 6+00



BPS – Seg B1 42" DIP near STA 3+40

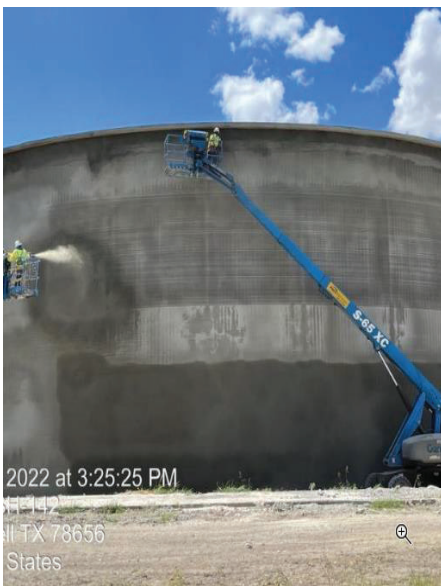


Aug 10, 2022 at 10:01:36 AM
9942 SH-142
Maxwell TX 78656
United States

BPS – 42" DI Seg C near STA 1+25

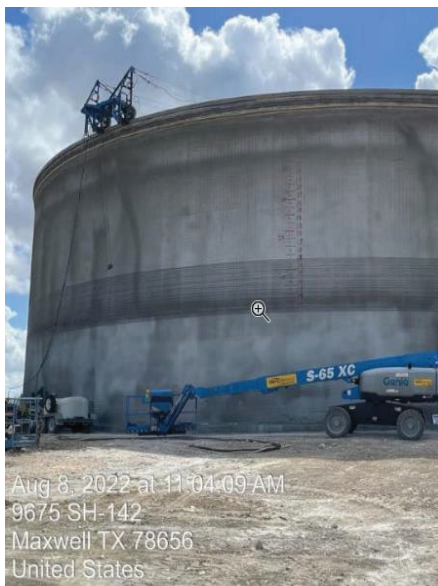
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BPS- PROGRESS PHOTOS



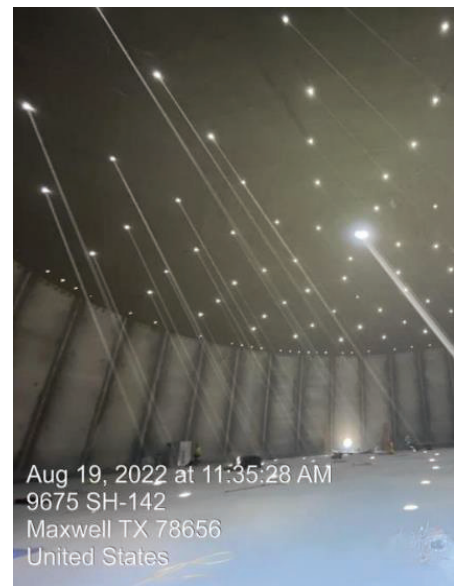
2022 at 3:25:25 PM
SH-142
TX 78656
States

BPS – Exterior Shotcrete of GST



Aug 8, 2022 at 11:04:09 AM
9675 SH-142
Maxwell TX 78656
United States

BPS – Exterior Wire Winding of GST



Aug 19, 2022 at 11:35:28 AM
9675 SH-142
Maxwell TX 78656
United States

BPS – GST Dome Shoring Removed

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Booster Pump Station (MWH / Friese and Nichols)

Next Month - Projected Construction Activities

- Continue electrical underground
- Continue backfill of the electrical building
- Continue 42" DIP segment C installation
- Continue wire winding and shotcrete on the exterior of the GST
- Begin installation of Segment D pipeline
- Install the suction and discharge headers at the pump station.



Northeast View of GST

Segment A (Garney Construction / LAN)

Construction Status

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



Activity	Status
ROW Cleared	100%
Pipe Delivered	98%
Minor Tunnels Completed	56% (9 of 16)
Pipe Installed	9%
Major Crossing (Plum Creek)	Receiving pit under construction

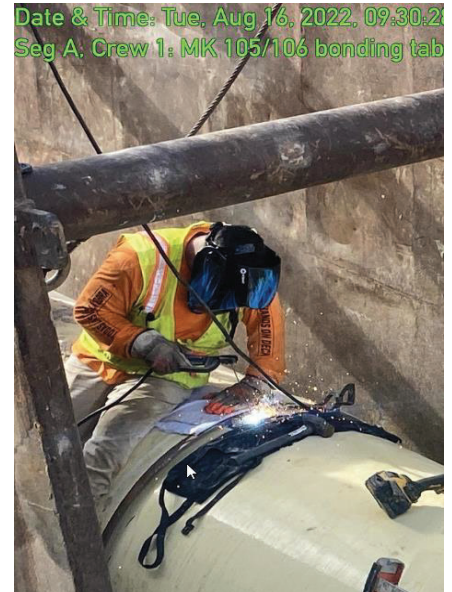
SEGMENT A - PROGRESS PHOTOS



Seg A – Bore #3 Bore Excavation



Seg A – Bore #3 Downstream Side



Seg A – MK 105/106 Welding Bonding Clips

13

Segment A (Garney Construction / LAN)

Next Month - Projected Construction Activities

- Tunnels
 - Install 3 tunnels to bring total to 12 of 16 (75%)
 1. Bore Location #8 – CR 160
 2. Bore Location #9 – Unnamed Tributary
 3. Bore Location #10 – FM 86
- Major Crossings
 - Finish Plum Creek Receiving Shaft
 - Start Plum Creek Launch Shaft
 - Conduct Pre-Micro tunneling Meeting Onsite before the start of Micro tunneling operations and after the shafts completed
- Pipe Installation
 - Continue installation of 48" pipe from Sandy Fork Creek going East towards Sand Hill road
 - Continue staging embedment material for pipe laying operations
 - Start installation at Fox lane for second pipe heading on Segment A

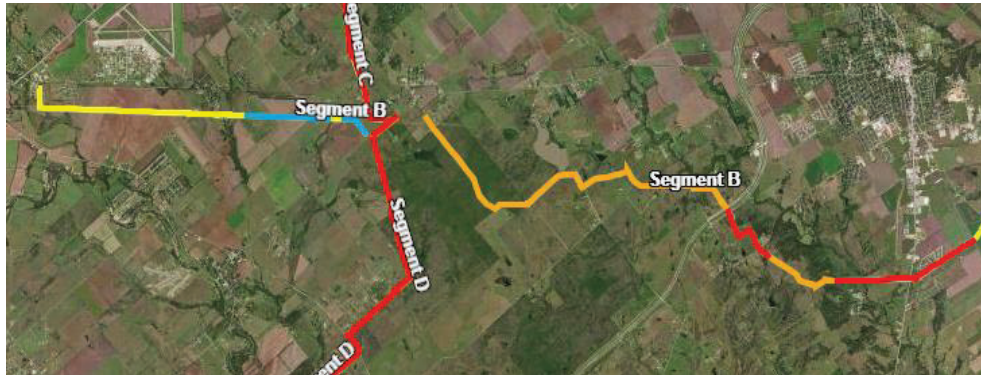


Seg A – STA 43+00

Segment B (Garney Construction / K Friese)

Construction Status

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

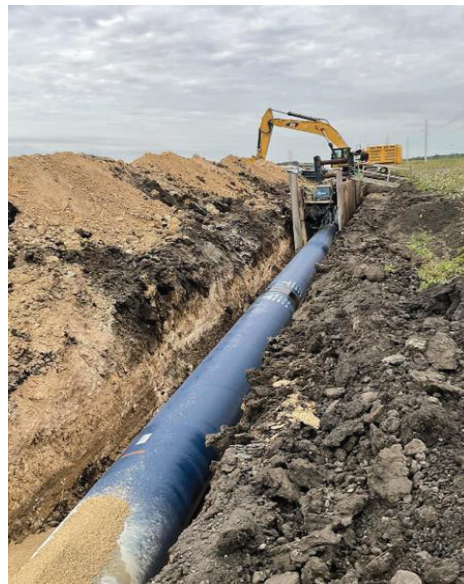


Activity	Status
ROW Cleared	78%
Pipe Delivered	34%
Minor Tunnels Completed	48% (10 of 21)
Pipe Installed	11%
Major Crossing (TX 130)	Submittal process underway

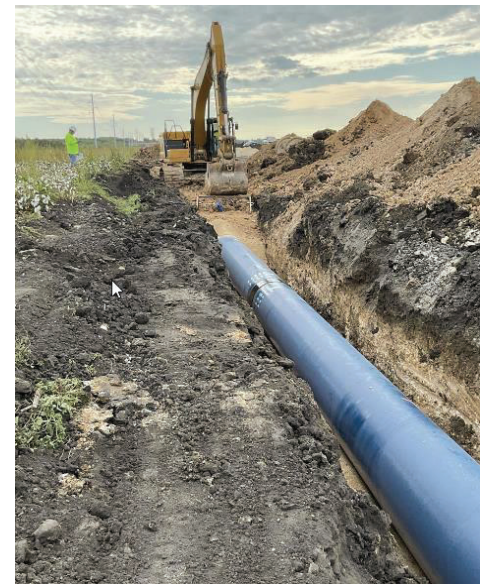
SEGMENT B - PROGRESS PHOTOS



Seg B – 36-Inch Shrink Sleeve Placement



Seg B – 36-Inch Pipe Installed

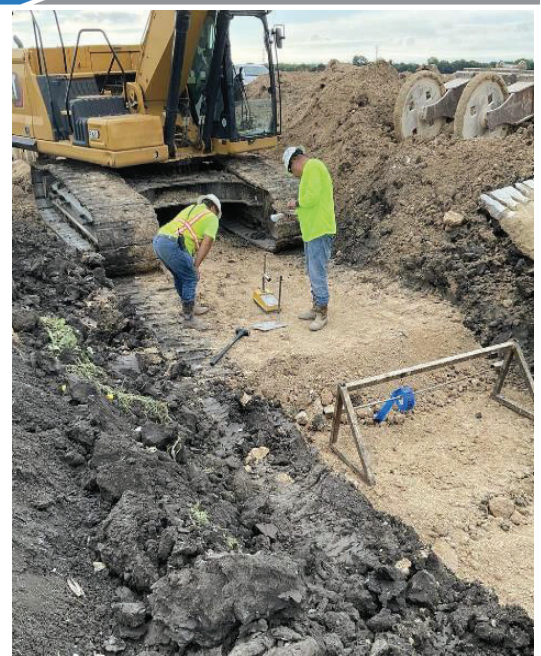


Seg B – Native Backfill Compaction

Segment B (Garney Construction / K Friese)

Next Month - Projected Construction Activities

- Tunnels
 - Install 4 tunnels to bring total to 12 of 21 (57%)
 - Bore Location #5 on B1 – State Park Road
 - Bore Location # 11 on B1 – CR109
 - Bore Location #12 on B1 – Dry Branch
- Major Crossings
 - TX-130 Pre-construction meeting
- Pipe Installation
 - Continue 36” Pipe Installation on B2 laying West from Church Street towards 1984.
 - Continue delivery of B1 pipe and staging embedment material.
 - Continue delivery of B2 embedment material.



Seg B – Density Test on Native Backfill

PROGRAM OVERSIGHT RECAP

Project	RFIs		Submittals		Test Reports	
	This Period	To Date	This Period	To Date	This Period	To Date
WTP/RWI	2	56	2	187	43	180
BPS	1	31	3	78	22	89
Seg A	2	32	4	42	37	69
Seg B	6	14	3	44	51	73

QUESTIONS?

REGULAR MEETING
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COMMITTEE MEMBER PACKETS

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

Background/Information

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

Attachment(s)

- Phase 1B Program Update – September 14, 2022
- Kimley-Horn Monthly Summary of Activities for August 2022

Technical Committee Decisions Needed:

- None.



Phase 1B Program Update

Technical Committee Meeting
September 14, 2022



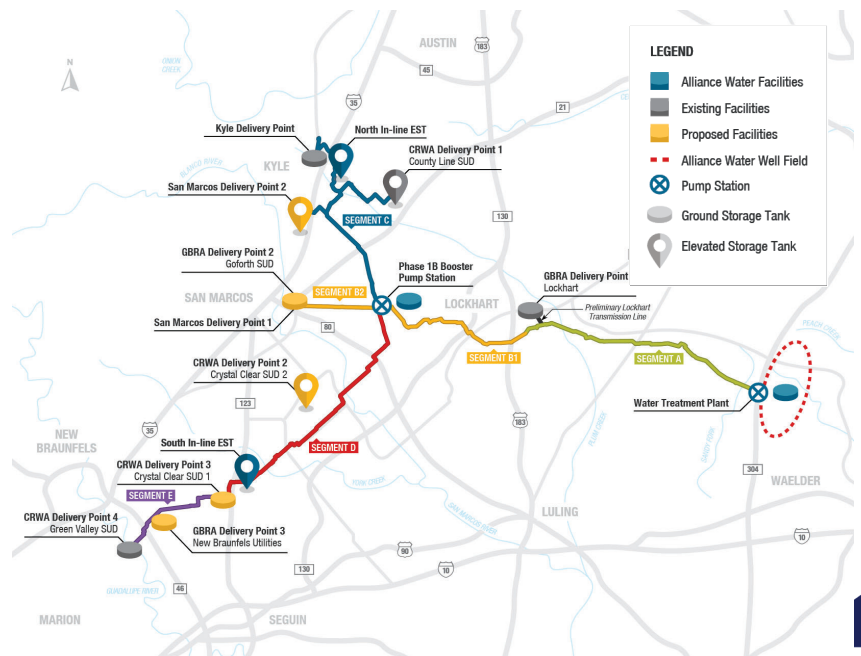
ALLIANCE WATER

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

Ongoing Progress

► Design Milestone Status

- Design Submittals
 - Inline Elevated Storage Tank – 90% submittal on September 5th
 - Segment E – 100% submittal on September 9th
 - Segment C – 100% submittal anticipated in November
- TWDB Reviews
 - WTP
 - Change Order No. 1 and 2 Release of Funds Under Review
 - Segment D
 - Engineering Feasibility Report Being Routed for Approval
 - Segment E
 - Environmental Data Report Approved
 - Engineering Feasibility Report Under Review

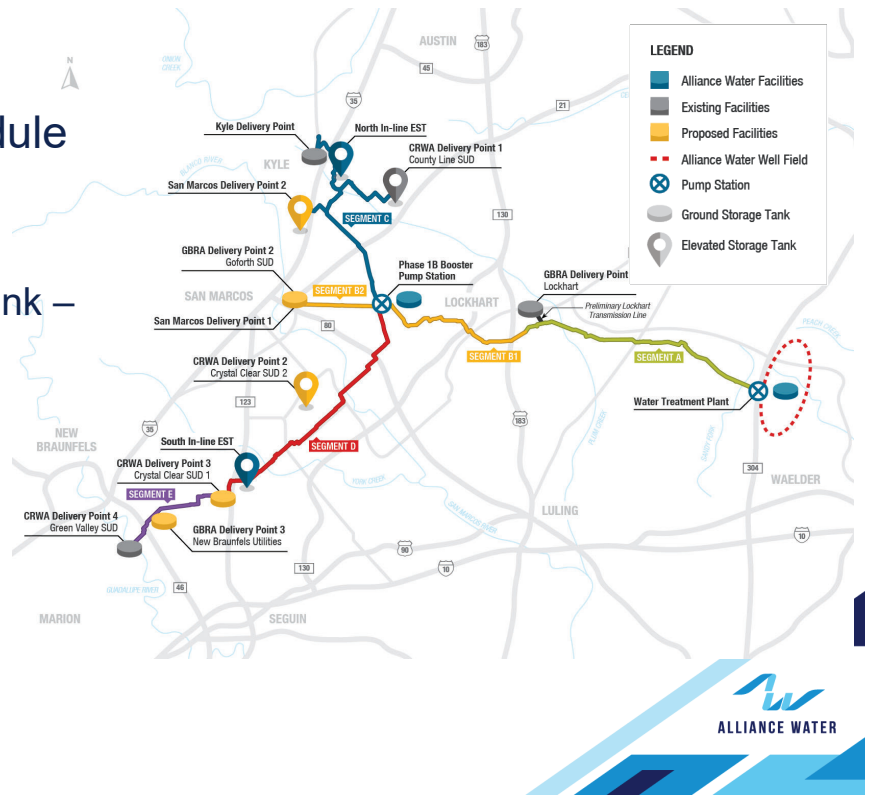


ALLIANCE WATER

Ongoing Progress

► Upcoming Procurement Schedule

- Segment E – October
- South In-line Elevated Storage Tank – November



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	0	0	39
B	52	0	0	0	0	0	0	52
D	57	0	0	0	0	1	1	56
C	75	5	2	9	16	21	37	38
E	30	0	0	2	2	8	10	20
Well Field	17	0	0	1	1	3	4	13
Total	270						52	218



COST UPDATES BASED ON AUGUST MILESTONE SUBMITTALS/RESULTS

		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	\$ 29,500,000	\$ 4,300,000
Const.	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 13,700,000	\$ 1,600,000
60	Inline EST (South)	\$ 3,600,000	\$ 4,100,000	\$ 500,000
Const.	Pipeline Segment A	\$ 27,200,000	\$ 28,600,000	\$ 1,400,000
Const.	Pipeline Segment B	\$ 27,100,000	\$ 33,800,000	\$ 6,700,000
Const.	Pipeline Segment D	\$ 36,300,000	\$ 44,200,000	\$ 7,900,000
90	Pipeline Segment E	\$ 9,500,000	\$ 10,900,000	\$ 1,400,000
	Subtotal	\$141,000,000	\$164,800,000	\$ 23,800,000
	ARWA-Only Infrastructure			
Const.	Well Drilling	\$ 3,800,000	\$ 3,300,000	(\$ 500,000)
Const.	Raw Water Infrastructure	\$ 7,000,000	\$ 10,600,000	\$ 3,600,000
Const.	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 4,800,000	(\$ 2,900,000)
30	Inline EST (North)	\$ 5,400,000	\$ 6,500,000	\$ 1,100,000
90	Pipeline Segment C	\$ 64,500,000	\$ 68,600,000	\$ 4,100,000
90	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 12,600,000	\$ 5,900,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$110,600,000	\$ 11,200,000
	Total	\$240,400,000	\$275,400,000	\$35,000,000
SEPTEMBER 2022 UPDATE			CHANGE FROM AUGUST UPDATE	\$500,000



Questions?

September 9, 2022

Project Monthly Summary

August 2022 Tasks Performed:

- Task 2 – Stakeholder Coordination
 - *Prepared and presented Commissioning update to the Project Advisory Committee.*
 - 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 Meeting Update.
 - Prepared and presented the Project Advisory Committee Meeting Update.
 - Prepared and presented the Board Meeting Update.
 - Prepared for and held Monthly Status Meeting with Alliance Water.
- Task 3 – Budgeting
 - Prepared and presented the monthly Budget Update for the Technical Committee and Board meetings.
 - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
- Task 4 – Schedule
 - Revised the Project Deliverable Schedule based on the feedback received from ARWA, Design Consultants, and Construction Management & Inspection team.
 - Integrated each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.
- Task 6 – Data Management
 - Continued to coordinate with ARWA and Construction Management & Inspection Team to integrate construction data collected on the GIS WebMap.
 - 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 ARWA and the Program Environmental Consultant regarding the burial relocation proceedings.
 - Continued coordination with Program Environmental Consultant concerning the comments from the United States Army Corps of Engineers.
 - Continued coordination with the Program Environmental Consultant fieldwork for Segments C.

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

- Continued coordination between Program Environmental Consultant and Segment C Design Consultant to clarify environmental field work to be done on properties as part of easement acquisition process.
- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continued coordination between Program Environmental Consultant and Design Engineers.
- Task 8 – Land Acquisition Management
 - Coordinated the appraisal process for Segments C, E, and W parcels.
 - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
 - Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition team.
 - Weekly coordination meeting with land agents to discuss status of rights-of-entry and to provide Program clarification on any questions/requests that have come from landowners.
 - Reviewed Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
 - Continued field work coordination to notify landowners of upcoming field work by consultants.
- Task 9 – Texas Water Development Board Management
 - Continued coordination with ARWA, GBRA, and TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review as well as preparation of funding release requests.
- Task 10 – Design Standards
 - *Reviewed Construction Standards given questions arising from construction activities and coordinated with the Program as needed.*
- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continued coordination with Design Consultant for construction phase services.
 - Segment C
 - Continued coordination with Design Consultant for final design.
 - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.

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

- Segment D
 - Continue coordination with Design Consultant during project procurement.
 - Segment E
 - Continued coordination with Design Consultant for final design.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Coordinated with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Continued coordination with Design Consultant for final 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 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 Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
 - Continued General Coordination with GVEC, BBEC, and LCRA.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - Continued coordinated with Segment D Design Consultant during the procurement phase.
 - Continued coordination with the Construction Management & Inspection team.
 - Continued coordination with WTP, RWI, BPS, Segment A, and Segment B Design Consultants during the construction phase.

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

- Task 18 – Environmental Construction Services
 - Reviewed LOC changes requested by Contractor at Plum Creek (Pipeline Segment A).
 - Continued efforts to complete Migratory Bird nest surveys and associated memos for reporting.
 - Coordinated with the USACE regarding the PCN for the blown bore on Sandy Creek.
 - Attended construction status meetings.

September 2022 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 Technical Committee Meeting Update.
 - Prepare and present Project Advisory Committee Meeting Update.
 - Prepare and present Board Meeting Update.
 - Prepare for and hold Monthly Status Meeting with Alliance Water.
- Task 3 – Budgeting
 - Address ARWA comments and finalize budget projection.
 - Prepare and present the monthly Budget Update for the Technical Committee and Board meetings.
 - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
- Task 4 – Schedule
 - Revise the Project Deliverable Schedule based on the feedback received from ARWA, Design Consultants, and Construction Management & Inspection team.
 - Integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.
- Task 6 – Data Management
 - Continued coordination with ARWA and Construction Management & Inspection Team to integrate construction data collected on the new GIS WebMap.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

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

- Task 7 – Environmental Management
 - Review the Segment C EDF prepared by the Program Environmental Consultant.
 - Continue coordination with ARWA and the Program Environmental Consultant regarding the burial relocation proceedings.
 - Continue coordination with Program Environmental Consultant concerning the comments from the United States Army Corps of Engineers.
 - 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, E, and W parcels.
 - Coordinate with Program Survey Consultant, Design Consultants, 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 ARWA, GBRA, and TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review as well as preparation of funding release requests.

- Task 10 – Design Standards
 - Review Construction Standards given questions arising from construction activities and coordinate with the Program as needed.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continue coordination with Design Consultant for construction phase services.
 - Segment C

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

- Continue coordination with Design Consultant for final design.
 - Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
 - Segment D
 - *Continue coordination with Design Consultant during project procurement and construction phase services.*
 - Segment E
 - Begin review of Segment E 100% Design submittal prepared by the Design Consultant.
 - Continue coordination with Design Consultant for final design.
 - Raw Water Infrastructure:
 - Continue coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continue coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Continue coordination with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Continue coordination with Design Consultant for final 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 12 – Quality Assurance
 - *Coordinate with the Land Acquisition team to audit files prior to contract expiration.*
 - Task 13 – Electrical Power Planning
 - 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.
 - Continue General Coordination with GVEC, BBEC, and LCRA.

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

- On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - Continued coordinated with Segment D Design Consultant during the procurement phase.
 - On-going coordination with the Construction Management & Inspection team.
 - On-going coordination with WTP, RWI, BPS, Segment A, and Segment B Design Consultants during the construction phase.
- Task 16 – Other Services
 - Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.
- Task 18 – Environmental Construction Services
 - Continue coordination with USACE regarding Sandy Creek and Plum Creek permits.
 - Continue efforts to complete Migratory Bird nest surveys and associated memos for reporting.
 - Attend construction status meetings.

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, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

- F.3** Possible recommendation to the Board to approve change order with Garney Construction, Inc. adding portions of pipeline segments B2, C and D into the Phase 1B Segment B Project with Garney Companies, Inc. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Alliance Water requested a change proposal from Garney Companies on the Segment B Project to construct portions of the B2, C and D pipelines. These pipeline sections were originally planned to be constructed with the Segment D project, however, Segment B2 is needed earlier than Segment D will be completed so that commissioning water can be transmitted from the San Marcos Water Treatment Plant to the Maxwell Booster Pump Station.

The three lines are parallel to each other on the south side of SH-142 and therefore need to be constructed simultaneously to reduce any changes of conflicts between contractors. Below is a graphic of the pipeline segments:



REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

The total cost for the proposed change is \$4,268,704.74. Using the cost share between ARWA and GBRA for the various pipeline segments yields a cost to ARWA of \$3,712,589.70 and \$556,115.04 to GBRA.

As the construction management and inspection team, Pape-Dawson has provided the attached comprehensive analysis of the change order. They along with the design engineers for the Segment B and D pipelines, K Friese and Freese & Nichols, respectively, all recommend that Alliance Water approve the change order.

Due to the magnitude of the change it will require Board action. Therefore we are seeking the Technical Committee's recommendation to the Board to approve the change.

Attachment(s)

- PD Analysis of CP002

Technical Committee Decision Needed:

- Possible recommendation to the Board to approve the change order with Garney Companies to move work from the Segment D project to the Segment B project.

MEMO

TO: Graham Moore **DATE:** September 7, 2022
FROM: Carl Nooteboom **PROJECT NO.:** 12214-06
cc: Chris Noe, Toby Flinn, Ryan Moloney
RE: Seg B CP0002 – Segment D Pipeline Addition

Graham,

The PD CMI team has completed our analysis of Seg B CP0002 provided by Garney for the work shift from Segment D contract to Segment B. The purpose of the change request is to install the pipeline segments (B, C, & D) downstream of the BPS in conjunction with Garney’s current installation of Segment B. This change will expedite the supply of water to the BPS, B1, and Segment A for testing.

CP Cost Evaluation Description:

Due to magnitude of scope, age of Garney’s original Seg B SOV, and volatility in market pricing; the CP value is not based on the unit pricing of the original Seg B SOV. In order to validate the increase in cost we compared the CP unit values to Garney’s original Seg B SOV, Garney’s recent Seg D pricing, and the average pricing of all bidders on Seg D. Below is a table summarizing the difference (% greater than) of these comparisons, a spreadsheet of our analysis is included as an attachment. Based on our study we feel the CP value proposed is reasonable.

Results Shown on CP Cost Analysis Tab:

CP Compared to:	% Diff
Seg B SOV	25%
Garney Seg D Bid	17%
Seg D Bid Average	10%

Final Cost of CP Priced with Two Options with Cost Breakdown per Pipeline Segments:

	Total Cost	Seg B Costs	Seg C Costs	Seg D Costs
Total Cost W/O Alternate:	\$4,268,704.74	\$1,530,222.22	\$1,094,336.57	\$1,644,145.95
Total Cost W/ Alternate:	\$4,206,204.74	\$1,517,722.22	\$1,069,336.57	\$1,619,145.95

Total cost without alternate includes cost of CP with Garney performing at the tie-ins with their crews. Total cost with alternate includes cost of CP with “others” performing the tie-ins. This would assume that Garney would lay the scope of the CP before the tie-ins would be able to be completed and bulk heads would be left in place to protect the pipe ends until tie-ins were performed by others.

Time Requested:

Garney is requesting a total of 93 days for this change proposal to complete the entire scope of work. The time extension was negotiated into two parts. 39 days would be added to substantial completion and 54 days would be added to final completion. To meet substantial completion, Garney will need to have the B segment of this CP installed. To meet final completion, Garney will need to have B-D and B-C segments of this CP installed. The time extension was negotiated so that the critical path item (Segment B1 pipe) will be installed to the BPS quicker to allow for water to be available for testing BPS, B1, and Segment A.

MEMO

Project

Date

Page 2 of 2

We recommend that the substantial completion dates for B2 (11/17/2022) and B1 (05/15/2023) provided by Garney be maintained and encouraged as part of the contractor's schedule to ensure that these lines and the BPS can receive water from San Marcos prior to when summer water restrictions negatively impact charging the lines and the BPS ground storage tank.

The following items are attached for reference and review per your request:

- Feedback from engineering (K. Friese and Freese & Nichols)
- Cost breakdown per Pipeline Segments C, D, & E
- Map of scope addition
- Cost Comparison
- CP0002B response from Garney
- CP0002 response from Garney
- CP documents designed by FNI.

*Please navigate pdf document using bookmarks for quick reference to support documentation.

Upon your approval of our analysis, we will proceed with finalizing the Change Proposal and initiate the Change Order for incorporation into the Segment B Contract.

Thank you,



Carl Nooteboom
Construction Manager

Carl Nootboom @PD

From: Rosa Valdez <Rosa.Valdez@freese.com>
Sent: Thursday, August 18, 2022 11:09 AM
To: Carl Nootboom @PD
Cc: Ryan Moloney @PD; Toby Flinn @PD; Tom Owens; Anne Hoskins; Ty Waltz
Subject: RE: ARWA1BSB - CP0002 Seg D to B SOW shift

Carl,

Thank you for the opportunity to provided feedback. We don't have any further questions or comments.

Let us know if we can help with anything else.

Rosa Valdez, P.E., PMP
Freese and Nichols, Inc.
9601 McAlister Freeway, Suite 1008
San Antonio, TX 78216
210-849-6064 cell

From: Tom Owens <towens@kfriese.com>
Sent: Thursday, August 18, 2022 7:51 AM
To: Carl Nootboom @PD <CNootboom@pape-dawson.com>; Rosa Valdez <Rosa.Valdez@freese.com>
Cc: Ryan Moloney @PD <RMoloney@pape-dawson.com>; Toby Flinn @PD <TFlinn@pape-dawson.com>
Subject: RE: ARWA1BSB - CP0002 Seg D to B SOW shift

This is an email from an EXTERNAL source. DO NOT click links or open attachments without positive sender verification of purpose. Never enter USERNAME, PASSWORD or sensitive information on linked pages from this email. Please report all suspicious messages using the Report Message button in Outlook.

Carl,

We have reviewed Garney's price proposal and have no questions or comments.

Tom

Tom Owens, PE
Executive Vice President

P 512.338.1704 C 512.923.2555 F 512.338.1784
1120 S. Capital of Texas Highway, CityView 2, Suite 100, Austin, Texas 78746

AUSTIN | HOUSTON | ROUND ROCK | SAN ANTONIO



EXPERTS DRIVEN TO DO MORE FOR TEXAS



BID ITEM #	DESCRIPTION	Updated QUANTITIES	Updated CP UNIT PRICE	Updated CP EXTENSION
1	SWPPP and Controls	1.0	\$30,000.00	\$30,000.00
2	Traffic Control	1.0	\$8,000.00	\$8,000.00
3	Clearing and Grubbing	1.0	\$50,000.00	\$50,000.00
4	42-Inch Water Main D - 150 PSI	2,641.0	\$450.00	\$1,188,450.00
5	42-Inch Carrier Pipe in Casing D - 150 psi	20.0	\$1,300.00	\$26,000.00
6	42-Inch Water Main D-C 150 psi	1,318.0	\$450.00	\$593,100.00
7	42-Inch Carrier Pipe in Casing D-C 150 psi	89.0	\$1,300.00	\$115,700.00
8	36-Inch Water Main D-B - 150 psi	3,129.0	\$330.06	\$1,032,757.74
9	36-Inch Carrier Pipe in Casing D-B - 150 psi	85.0	\$895.00	\$76,075.00
10	60-Inch Steel/Tunnel Liner Plate (By Other Than Open Cut)	109.0	\$1,700.00	\$185,300.00
11	54-Inch Steel Casing/Tunnel Liner Plate (By Other Than Open Cut)	85.0	\$1,500.00	\$127,500.00
12	42-Inch Gate Valve Assembly and Vault	1.0	\$110,000.00	\$110,000.00
13	36-Inch Gate Valve Assembly and Vault	1.0	\$82,000.00	\$82,000.00
14	2-Inch Combination Air Valve Assembly and Vault	1.0	\$20,000.00	\$20,000.00
15	8-Inch Combination Air Valve Assembly and Vault	2.0	\$45,000.00	\$90,000.00
16	8-Inch Drain Valve Assembly and Vault	1.0	\$40,000.00	\$40,000.00
17	Tie-In Connections	5.0	\$25,500.00	\$127,500.00
18	Cathodic Protection - Pipeline Bonding Test Station	3.0	\$1,500.00	\$4,500.00
19	Cathodic Protection - Casing Test Station	8.0	\$1,500.00	\$12,000.00
20	Cathodic Protection - Monitoring Test Station	2.0	\$1,500.00	\$3,000.00
21	Cathodic Protection - Foreign Pipeline Test Station	1.0	\$1,500.00	\$1,500.00
22	Cathodic Protection - Rectifier	1.0	\$75,000.00	\$75,000.00
23	Cathodic Protection - Insulating Flange and Test Station	2.0	\$2,400.00	\$4,800.00
24	15' Wide Concrete Pavement Repair	750.0	\$8.00	\$6,000.00
25	Barbwire Fence Removal/Replacement	382.0	\$4.00	\$1,528.00
26	Metal Pipe Fence Removal/Replacement	200.0	\$5.00	\$1,000.00
27	16' Gate	6.0	\$1,600.00	\$9,600.00
28	Site Restoration (AC)	15.0	\$1,500.00	\$22,500.00
29	Trench Safety Protection	7,088.0	\$1.00	\$7,088.00
30	Temporary Fencing	1,403.0	\$2.00	\$2,806.00
31	Mobilization	1.0	\$215,000.00	\$215,000.00
	ALTERNATE			
32	Tie-In Connections (By Others)	5.0	\$13,000.00	\$65,000.00
Total Cost W/O Alternate:				\$4,268,704.74
Total Cost W/ Alternate and Removing Item 17 in SOV:				\$4,206,204.74

Segment B Costs	Segment C Costs	Segment D Costs
\$10,000.00	\$10,000.00	\$10,000.00
\$2,666.67	\$2,666.67	\$2,666.67
\$22,072.52	\$9,297.40	\$18,630.08
		\$1,188,450.00
		\$26,000.00
	\$593,100.00	
	\$115,700.00	
\$1,032,757.74		
\$76,075.00		
	\$151,300.00	\$34,000.00
\$127,500.00		
		\$110,000.00
\$82,000.00		
		\$20,000.00
\$45,000.00		\$45,000.00
		\$40,000.00
\$25,500.00	\$51,000.00	\$51,000.00
\$3,000.00		\$1,500.00
\$7,500.00	\$3,000.00	\$1,500.00
\$1,500.00		\$1,500.00
		\$1,500.00
	\$75,000.00	
	\$2,400.00	\$2,400.00
\$3,000.00		\$3,000.00
\$520.00	\$504.00	\$504.00
\$500.00		\$500.00
\$4,800.00	\$3,200.00	\$1,600.00
\$9,932.63	\$4,183.83	\$8,383.54
\$3,129.00	\$1,318.00	\$2,641.00
\$1,102.00		\$1,704.00
\$71,666.67	\$71,666.67	\$71,666.67
\$13,000.00	\$26,000.00	\$26,000.00
\$1,530,222.22	\$1,094,336.57	\$1,644,145.95
\$1,517,722.22	\$1,069,336.57	\$1,619,145.95

Alignment Connecting Segment B to Booster Pump Station



Seg B CP0002 Cost Analysis

BID ITEM #	DESCRIPTION	Adjusted CP EXTENSION
1	SWPPP and Controls	\$30,000.00
2	Traffic Control	\$8,000.00
3	Clearing and Grubbing	\$50,000.00
4	42-Inch Water Main D - 150 PSI	\$1,188,450.00
5	42-Inch Carrier Pipe in Casing D - 150 psi	\$26,000.00
6	42-Inch Water Main D-C 150 psi	\$593,100.00
7	42-Inch Carrier Pipe in Casing D-C 150 psi	\$115,700.00
8	36-Inch Water Main D-B - 150 psi	\$1,032,757.74
9	36-Inch Carrier Pipe in Casing D-B - 150 psi	\$76,075.00
10	60-Inch Steel/Tunnel Liner Plate (By Other Than Open Cut)	\$185,300.00
11	54-Inch Steel Casing/Tunnel Liner Plate (By Other Than Open Cut)	\$127,500.00
12	42-Inch Gate Valve Assembly and Vault	\$110,000.00
13	36-Inch Gate Valve Assembly and Vault	\$82,000.00
14	2-Inch Combination Air Valve Assembly and Vault	\$20,000.00
15	8-Inch Combination Air Valve Assembly and Vault	\$90,000.00
16	8-Inch Drain Valve Assembly and Vault	\$40,000.00
17	Tie-In Connections	\$127,500.00
18	Cathodic Protection - Pipeline Bonding Test Station	\$4,500.00
19	Cathodic Protection - Casing Test Station	\$12,000.00
20	Cathodic Protection - Monitoring Test Station	\$3,000.00
21	Cathodic Protection - Foreign Pipeline Test Station	\$1,500.00
22	Cathodic Protection - Rectifier	\$75,000.00
23	Cathodic Protection - Insulating Flange and Test Station	\$4,800.00
24	15' Wide Concrete Pavement Repair	\$6,000.00
25	Barbwire Fence Removal/Replacement	\$1,528.00
26	Metal Pipe Fence Removal/Replacement	\$1,000.00
27	16' Gate	\$9,600.00
28	Site Restoration (AC)	\$22,500.00
29	Trench Safety Protection	\$7,088.00
30	Temporary Fencing	\$2,806.00
31	Mobilization	\$215,000.00
	ALTERNATE	
32	Tie-In Connections (By Others)	\$65,000.00
	Total Cost W/O Alternate:	\$4,268,704.74
	Total Cost W/ Alternate and Removing Item 17 in SOV:	\$4,206,204.74

Extension of Common Items between Seg B and Seg D-B	Garney Seg B Pricing Extended	Garney Seg D Pricing Extended	Average Seg D Pricing Extended
\$50,000.00	\$90,517.24	\$45,525.77	\$45,309.28
\$1,188,450.00	\$821,351.00	\$866,855.43	\$904,912.24
\$26,000.00	\$9,000.00	\$8,400.00	\$11,765.00
\$593,100.00	\$409,898.00	\$432,607.14	\$451,599.52
\$115,700.00	\$40,050.00	\$37,380.00	\$52,354.25
\$185,300.00	\$152,600.00	\$163,500.00	\$259,828.75
\$127,500.00	\$110,500.00	\$106,250.00	\$180,306.25
\$110,000.00	\$95,000.00	\$150,000.00	\$136,250.00
\$82,000.00	\$80,000.00	\$112,500.00	\$100,706.25
\$20,000.00	\$32,000.00	\$45,000.00	\$34,200.00
\$90,000.00	\$80,000.00	\$150,000.00	\$120,600.00
\$40,000.00	\$40,000.00	\$75,000.00	\$51,320.00
\$127,500.00	\$130,000.00	\$50,000.00	\$121,875.00
\$12,000.00	\$4,000.00	\$12,000.00	\$16,600.00
\$3,000.00	\$1,000.00	\$3,000.00	\$4,150.00
\$1,500.00	\$1,000.00	\$1,500.00	\$2,450.00
\$75,000.00	\$20,000.00	\$86,000.00	\$54,000.00
\$4,800.00	\$1,100.00	\$24,000.00	\$11,650.00
\$1,528.00	\$1,528.00	\$2,292.00	\$2,539.35
\$9,600.00	\$15,600.00	\$600.00	\$4,935.93
\$22,500.00	\$21,780.00	\$8,250.00	\$41,512.50
\$7,088.00	\$7,088.00	\$7,088.00	\$5,316.00
\$2,892,566.00	\$2,164,012.24	\$2,387,748.34	\$2,614,180.31
	25%	17%	10%
	Comparison of cost (% difference)		



Pape-Dawson Engineers, Inc
2000 NW Loop 410
San Antonio, TX 78213

July 23, 2022

Attn: Ryan Maloney

Re: Change Order 0002B

Mr. Maloney,

As previously discussed, a large majority of the costs for materials, labor, fuel and equipment have gone up since we bid the project back in November 2021. That coupled with the scope of work provided in the drawings have led to elevated costs that do not line up with our Segment B bid day schedule of values. Comparing our Segment B unit pricing to our Change Order unit pricing resulted in approximately a \$901,000 delta. Please find our explanation for these items below:

Increase in Labor, Fuel, Equipment and Overhead (Total Difference - \$525,199.40; 58% of Overall Delta)

- The increase in labor is two-fold. Garney increasing our wages of our labor force due to current market conditions and the total overall cost per linear foot to install the pipe. The increased cost per linear foot is specifically referenced to the 36-inch line. Both 42-inch lines are relatively shallow. However, the 36-inch line is upwards of 18ft deep for approximately 1,300 linear feet. Having to dig and lay at these depths bring on a lot of costs (staging the area down, slower production rates, hauling of material, etc..) all resulting in a higher cost to install versus the cross-country style of laying that you see on Segment B1 and B2.

Increase in Materials (Total Difference - \$376,620.00; 42% of Overall Delta)

- The increase in material costs is mainly due to this being such a short run of piping and the amount of fabrication per linear foot, raw steel costs and delivery have all gone up.

I hope this was able to provide some clarification to the price increase and we appreciate your help in getting this resolved.

Please let me know if there are any questions or clarifications needed.

Sincerely,

GARNEY COMPANIES, INC.

A handwritten signature in blue ink that reads "Daniel Murray". The signature is written in a cursive, flowing style.

Daniel Murray
Project Manager

cc: Chad Sharbono, Garney



Pape-Dawson Engineers, Inc
2000 NW Loop 410
San Antonio, TX 78213

July 13, 2022

Attn: Carl Nooteboom

Re: Change Order 0002

Mr. Nooteboom,

Enclosed you will find the Schedule of Values for Change Proposal 0002, Segment D Piping. The schedule of values was developed using the Bid Items provided on Sheet G-1 of the Change Order plans provided on May 6, 2022 and clarifications provided on June 29, 2022. In addition to the schedule of values provided we have added an additional (2) bid items. These include:

Bid Item No. 31 – Tie-in Connections (By Others)

- This bid item was added in the event that the connections are to be made by a contractor other than Garney. In this situation, Garney will secure the ends of each of the pipelines in preparation for a future contractor to come in and make the connections. This bid item was added per the email received on June 6, 2022 from Program Management Team. If this bid item is used and another contractor other than Garney must do the tie-ins, then Bid Item No. 17- Tie-In Connections, will not be billed against. Also, if work associated with Bid Item No. 17 is completed by Garney, then Bid Item No. 31 will not be billed against.

Bid Item No. 32 – Mobilization

- This bid item was added in anticipation that not all (3) of the proposed lines would be able to be completed concurrently. For example, Garney would complete Segment D-B (36-Inch Line), demobilize, and remobilize at a later date to complete the (2) 42-Inch segments. This bid item would also cover the additional overhead, insurance, and bonding.

All steel pipe that is included in this proposal will be provided by American Spiral Welded Pipe. This was done due to the manufacturer already being set up to produce 36-inch & 42-inch steel pipe. Due to the price increases on steel, fuel, labor and all materials since Segment B was bid, our price to purchase and install the material was higher than it was at bid day on November 12, 2021.

In addition to the total provided at the bottom of the schedule of values on page 2 of 2, **Garney would also like to request an additional 93 calendar days. Garney would like to request that 39 of those days to be applied towards Substantial Completion and the remaining 54 calendar days to be applied to Final Completion.**

Please let me know if there are any questions or clarifications needed.

Sincerely,

GARNEY COMPANIES, INC.

Daniel Murray
Project Manager

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

- F.4** Update, discussion and possible direction to Staff regarding the Authority’s request to the Texas Water Development Board for additional SWIFT Funding. ~ *Graham Moore, P.E., Executive Director*

The Authority’s financial application was approved by the TWDB at their July meeting. The aggregate requested funding is for \$48,000,000 broken down as follows along with projected debt service:

Entity	Amount to be Issued	Budgeted Amount		Most Current Estimate	
		FYE 23	All Others	FYE 23	All Others
CRWA	\$14.83 MM	\$375,000	\$830,000	\$360,000	\$825,000
Kyle	\$13.52 MM	\$340,000	\$760,000	\$330,000	\$750,000
San Marcos	\$17.21 MM	\$340,000	\$1,185,000	\$325,000	\$1,175,000
Buda	\$2.44 MM	\$50,000	\$170,000	\$46,000	\$170,000

The Authority and each of the Sponsors will need to approve the bond resolutions and related documents after the TWDB sells their bonds in early October. Below is the anticipated schedule for the various approvals:

<u>Date</u>	<u>Action</u>
10/13	CRWA Board approves bond resolution and related docs
10/17	County Line SUD Board approves bond resolution and related docs
10/18	San Marcos, Kyle and Buda City Councils approve bond resolution and related docs
10/27	Green Valley SUD & Crystal Clear SUD approves bond resolution and related docs
10/31	Alliance Water approves resolution and related docs
11/16 & 11/17	Closing date for Alliance Water bonds

Technical Committee Decisions Needed:

- Possible Direction to Staff.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

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- 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 September 13th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on September 20th.

Groundwater Management Area 13

No update.

Region L Planning Group

Region L is scheduled to meet next on November 3rd.

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, September 14th, 2022 at 3:00 P.M.

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

Consultant Invoices Paid

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

FY 21-22 CONSULTANT INVOICES PAID IN AUGUST 2022

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
RW Harden	\$30,000.00	\$2,340.00	\$11,406.33	38%	\$18,593.67	
Kent Alan Sick - ROW Legal	\$30,000.00	\$495.00	\$495.00	2%	\$29,505.00	
LNV - GIS Svcs	\$1,590.88	\$0.00	\$0.00	0%	\$1,590.88	
Armstrong, Vaughan & Associates, P.C.	\$10,930.00	\$0.00	\$10,930.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$255,000.00	\$36,384.00	\$186,038.40	73%	\$68,961.60	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$7,570.00	\$93,725.99	75%	\$31,274.01	
CD&P - Public Relations	\$50,000.00	\$11,593.51	\$39,181.62	78%	\$10,818.38	
Law Offices of Patricia Erlinger Carls	\$22,284.70	\$0.00	\$0.00	0%	\$22,284.70	
Schlueter Group of Texas, LLC	\$45,000.00	\$5,000.00	\$40,000.00	89%	\$5,000.00	
Texas Land & Right of Way Company, LLC	\$40,000.00	\$11,360.67	\$36,785.63	92%	\$3,214.37	
AECOM - Blanco Basin WW Study	\$47,010.00	\$42,309.00	\$42,309.00	90%	\$4,701.00	
Total	\$609,805.58	\$74,743.18	\$418,562.97		\$191,242.61	

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

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN AUGUST 2022

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/ Anomalies
Kimley-Horn Ph 1B Owner's Rep WO5	\$1,211,382.72	\$0.00	\$902,176.05	74%	\$309,206.67	
Kimley-Horn Ph 1B Owner's Rep WO5	\$1,989,091.00	\$0.00	\$417,584.42	21%	\$1,571,506.58	
Blanton - Environmental	\$1,184,938.15	\$122,092.15	\$485,881.19	41%	\$699,256.96	
LAN - Segment A	\$37,197.04	\$0.00	\$37,182.42	100%	\$14.62	
LAN - Segment A Construction	\$805,957.91	\$42,175.42	\$130,909.08	22%	\$475,048.83	
KFA - Segment B	\$89,769.42	\$0.00	\$66,133.15	74%	\$23,636.27	
KFA - Segment B Construction	\$471,544.00	\$34,018.69	\$59,085.38	13%	\$412,458.62	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C	\$147,053.89	\$0.00	\$33,239.38	23%	\$113,814.51	
FNI - Segment D Prelim	\$61,533.66	\$0.00	\$0.00	0%	\$61,533.66	
FNI - Segment D Final	\$307,435.65	\$97,005.95	\$277,919.31	90%	\$29,516.34	
Walker - Segment E Prelim	\$38,153.24	\$0.00	\$0.00	0%	\$38,153.24	
Walker - Segment E Final	\$326,815.35	\$47,706.84	\$174,999.90	54%	\$151,815.45	
LAN - ROW	\$741,441.42	\$148,638.07	\$314,376.53	42%	\$427,064.89	
DTR&G	\$2,000,000.00	\$232,817.68	\$1,310,139.65	66%	\$689,860.35	
CBRE - Appraisals	\$943,090.00	\$60,860.00	\$483,000.00	51%	\$460,090.00	
CP&Y - Survey	\$357,734.00	\$84,716.50	\$214,779.50	60%	\$142,954.50	
RW Harden - WDH Const Admin	\$12,470.00	\$0.00	\$12,470.00	100%	\$0.00	
LNV - RWI	\$113,027.50	\$0.00	\$5,370.00	5%	\$107,657.50	
FNI - BPS Final	\$267,620.10	\$0.00	\$56,675.37	21%	\$210,944.73	
Plummer - Inline Elevated Tank Prelim	\$3,730.07	\$0.00	\$0.00	0%	\$3,730.07	
Plummer - Inline Elevated Tank Final	\$290,663.43	\$25,146.70	\$52,097.46	18%	\$238,565.97	
Pape-Dawson - CM&I WO#5	\$1,501,376.61	\$0.00	\$935,095.71	62%	\$566,280.90	
Pape-Dawson - CM&I WO#6	\$5,601,900.00	\$888,731.72	\$2,125,840.62	38%	\$3,476,059.38	
Hicks & Co - WDH Environmental	\$15,571.00	\$0.00	\$0.00	0%	\$15,571.00	
Walker Partners - WTP CA Svcs	\$1,253,702.22	\$90,842.99	\$487,485.41	39%	\$766,216.81	
LNV/Ardurura - RWI CA Svcs	\$340,160.00	\$0.00	\$14,704.50	4%	\$325,455.50	
FNI - BPS CA Svcs	\$527,630.50	\$50,720.84	\$163,544.43	31%	\$384,086.07	
CP&Y - SCADA Programming Svcs	\$821,470.94	\$10,961.91	\$237,883.41	29%	\$583,587.53	
HVJ - Materials Testing (WTP)	\$473,148.75	\$18,863.00	\$104,331.25	22%	\$368,817.50	
HVJ - Materials Testing (BPS)	\$131,259.00	\$17,094.75	\$57,307.00	44%	\$73,952.00	
HVJ - Materials Testing (Segment A)	\$730,665.00	\$28,561.71	\$0.00	0%	\$730,665.00	
HVJ - Materials Testing (Segment B)	\$465,483.00	\$19,614.00	\$19,614.00	4%	\$465,869.00	
Total	\$23,098,114.81	\$2,020,566.92	\$9,179,625.12	40%	\$13,918,489.69	

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

Approved Change Orders

- Below are the Consultant changes that were issued in August 2022.

CHANGE ORDERS APPROVED IN AUGUST 2022				
Consultant	Original Authorization	Change Orders to Date	Change Order Approved this Month	New Total Contract Amount
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00	\$ -	\$ 816,025.00
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	\$ 418,373.96		\$ 2,417,837.96
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 262,949.00	\$ -	\$ 2,166,026.00
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	\$ 306,242.13	\$ -	\$ 2,063,949.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 107,570.00	\$ 22,233.00	\$ 1,526,270.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 163,128.00	\$ -	\$ 1,353,549.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 652,306.00	\$ 372,285.00	\$ 3,340,616.00
Freese & Nichols: 1B BPS & DP Final	\$ 1,580,519.00	\$ 163,657.00	\$ -	\$ 1,744,176.00
Pape Dawson: CMI	\$ 57,520.00	\$ 43,080.00	\$ -	\$ 100,600.00
Walker Partners: WTP (CA Svcs)	\$ 1,638,207.00	\$ 164,682.00	\$ -	\$ 1,802,889.00
Freese & Nichols: 1B BPS & DP (CA Svcs)	\$ 497,224.00	\$ 32,896.00	\$ -	\$ 530,120.00
LAN: 1B Segment A (CA Svcs)	\$ 486,610.00	\$ 25,000.00	\$ -	\$ 511,610.00
LNV: 1B Raw Water (Const Admin)	\$ 210,345.00	\$ 28,500.00	\$ 28,500.00	\$ 238,845.00

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

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- Below are the change orders approved for construction contracts in August.

Change Order Tracking						
ARWA Phase 1B Water Treatment Plant						
CO #	Short Description	Total Cost	GBRA Share	GBRA's Cost	ARWA Cost	Basis for Split
CO001	Construction Access Road	\$ 249,606.00	59.35%	\$ 148,141.16	\$ 101,464.84	Overall WTP Split
CO002	Prestressed Concrete Tank Changes	\$ 71,390.00	68.58%	\$ 48,959.26	\$ 22,430.74	Water Storage & Pumping - Prestressed Water Storage Tank
CO003	CO2 Feed Pump Size	\$ 15,454.00	57.67%	\$ 8,912.32	\$ 6,541.68	Chemical Pre-Treatment - CO2 System
CO004	Gen Pad & Retaining Wall Changes	\$ 45,204.00	49.98%	\$ 22,592.96	\$ 22,611.04	Site Work - Retaining Wall
CO005	Filter Local Control Panel Additions	\$ 23,608.00	68.58%	\$ 16,190.37	\$ 7,417.63	Filtration - Packaged Steel Gravity Filter
CO006	Temp Improvements to Wolf Run Rd at 304	\$ 3,581.00	59.35%	\$ 2,125.32	\$ 1,455.68	Overall WTP Split
CO007	Electrical Manhole Modifications	\$ 28,804.00	49.98%	\$ 14,396.24	\$ 14,407.76	Electrical - Power Manholes
CO008	E&IC Mods, Deep Anodes, HSPS Surge & GBRA Raw Water Line	\$ 219,459.00	67.01%	\$ 147,052.51	\$ 72,406.49	Varies
TOTAL		\$ 657,106.00		\$ 408,370.14	\$ 248,735.86	

No other change orders were issued on construction projects in August.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

- 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.
-

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, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

- 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, September 14th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 982 8616 3170; Code: 495028

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, September 14th, 2022 at 3:00 P.M.

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J. ADJOURNMENT
