

Project Status Update

November 30, 2021



Agenda and Introductions

Agenda

- I. Project Status Update
 - a. Background/Timeline
 - b. Phase I Update
- II. TCEQ Action Plan Review
- III. Proposed Council Actions
 - I. Change Order No. 5
 - II. PSE PSSA 02

Project Team Roles

Construction Manager



Design Engineer



Construction Contractor





Project Status Update

PSE | +6



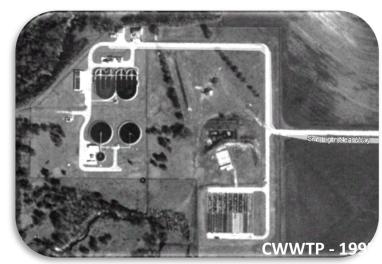
1980s – Central WWTP constructed at 3.0 MGD Capacity

2005 – Central WWTP expanded to 4.4 MGD Capacity

2016 – Capacity assessment completed to move to 5.3 MGD

2018 – Interim improvements to help get manage through the current expansion

2019 – Construction start on Phase 1 expansion Phase I flow = 7.25 MGD (Current Project) Phase II flow = 8.5 MGD Phase III flow = 10 MGD







- Timeline of Expansion Project
 - 2016 initial planning and selection of Freese & Nichols
 - 2017 FNI begins study and design of interim improvements
 - 2018 FNI begins design of expansion and Plus Six Engineering selected as Owner's Representative
 - 2019 Design Complete
 - 2019 BAR Constructors selected as General Contractor
 - November 19, 2019 Construction NTP
 - May 2021 Design begins for Phase II













































Phase I Construction Completion Percentages (10/31/21)
 84 % Complete by Cost
 86 % Complete by Time





CWWTP Contract Summary			
COST		TIME	
Original Contract Amount Approved Contract Modifications	\$ 41,863,737.95	Notice to Proceed Date	11/19/19
(CO 01 – CO 04)	\$ 510,577.29	Original Substantial Completion Date	10/12/21
Current Contract Price	\$ 42,374,315.24	Approved Time Extension (CO 01 – CO 04)	77
		Current Date of Substantial Completion	12/28/21
CO 01 – CO 04 = 1.2% of contract (5%-8% is typical)			



 Phase I Construction Status – Previously Approved Change Orders

Item No.	Description	Change in Cost	Change in Time
CO 1	Added SOW items - Including Temporary LS for Project Charm	\$288,607.76	34 days
CO 2	Added SOW items	\$ 48,967.25	22 days
CO 3	Added SOW items - Including Bio Solids Emergency Power Feed	\$130,813.37	14 days
CO 4	Added SOW items	\$ 42,188.91	7 days
	Total	\$ 510,577.29	77 days



- Phase I Construction Status Construction Challenges
 - Notifications by Contractor (Material, Cost, Manhours)
 - Summary of Materials Impacts
 - PVC Pipe shortages early in project
 - DI Pipe at BNR No. 3 and 4
 - DI Pipe at Influent Lift Station and Headworks
 - DI Pipe at RAS/WAS PS No. 2
 - Roofing Material at Electrical Building No. 1 Delayed dry in and install electrical equipment
 - Powers BNR Basins No. 3 & 4 and RAS/WAS PS No. 2
 - Roofing Material at Electrical Building No. 2
 - Powers Influent Lift Station and Headworks



- Phase I Construction Status Construction Challenges
 - Summary of Cost Impacts (absorbed by BAR)
 - Miscellaneous Metals
 - Ductile Iron Pipe
 - Roofing Materials
 - COVID-19 Reported Manhours Lost to Date (COVID-19 is ongoing threat)
 - Notices by Contractor for monthly impacts
 - Additional impacts to production rate due to working precautions (space, disinfection)
 - Labor Force Impacts
 - National Labor shortages
 - High pace of regional growth cause additional pressures



Phase I Construction Status

• Questions about Construction Status Update



TCEQ Action Plan





- TCEQ Enforcement Notice
 - AO dated June 10, 2021
 - AO cites violations of permit limits January September 2020
 - Ammonia Nitrogen (Daily Avg)
 - E. coli (Daily Avg)
 - Total Suspended Solids (Daily Avg)
 - Annual Average Flow

Ion Niermann, Chairman Bobby Janecka, Commissione Toby Baker, Executive Director



Received JUN 🗓 5 2021 City of Pflugerville City Secretary's Office

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 10, 2021

The Honorable Victor Gonzales Mayor of Pflugerville P.O. Box 589 Pflugerville, Texas 78691

Proposed Agreed Order

City of Pflugerville; RN101611440; TPDES Permit No. WQ0011845002 Docket No. 2021-0376-MWD-E; Enforcement Case No. 60479 FOR SETTLEMENT PURPOSES ONLY

Annual Average Flow violations will continue



TCEQ Action Plan

- Developed by FNI to be provided to TCEQ Enforcement Division
- Goals
 - ✓ Address existing enforcemen
 - ✓ Preempt future enforcement
 - ✓ Mitigate TCEQ fines



DELIVERED BY EMAIL

November 12, 2021

Water Section, Enforcement Division
Texas Commission on Environmental Quality
Docket No. 2021-0376-MWD-E; Enforcement Case No. 60479

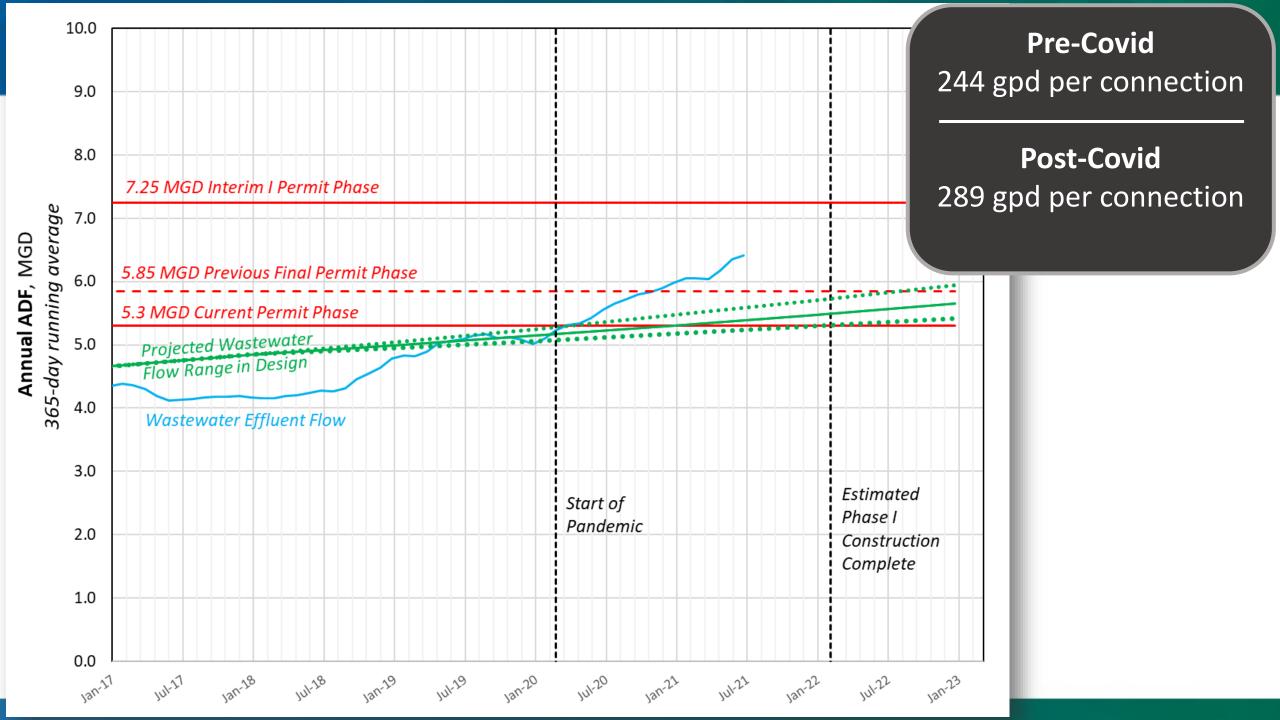
Attn: Kristy Deaver, Manager, Enforcement Division, TCEQ

Re: City of Pflugerville Upper Gilleland Creek WWTP Permit Compliance Action Plan

Outline

- 1. Documents contributing circumstances to violation
- 2. Documents actions already taken by City
- 3. Details proposed actions by City moving forward

pliance Action Plan









Proposed Actions By City Moving Forward

- 1. Resume Stream Monitoring for TDS, Chlorides, and Sulfates
- 2. Schedule recovery efforts by BAR: extended work hours, labor recruiting, etc.
- 3. Focus construction on increasing plant capacity immediately
 - Construct BNR Basins and associated improvements first
 - Ready Temporary Pumping from Existing Headworks to new BNR
 - Cost for pumping would be charged to the Phase I Construction



Proposed Council Actions

PSE | +6



- Two Council Meeting Agenda Items
 - BAR Constructors Construction Change Order 05
 - Plus Six Engineering, LLC Services Extension



- CWWTP Construction Change Order 05
- The purpose of Change Order o5 is to add cost and time for added Scope of Work and Delays outside of Contractor Control. The Change also provides contingency budgets to operate prior to completion and re-allocates budget from unused contract allowances.

Category Description		Cost	Time
Added Scope of Work		\$132,491.43	30 Days
COVID-19 Related Impacts		\$25,974.22	53 Days
Other Delays		0	30 Days
Bypass Pumping Contingencies		\$128,143.60	0
Credits		(\$161,600.00)	
	Total	\$125 009 25	113 Dave



Summary of Change Order Items			
Item No.	Item Description	Change in Cost	Change in Time
1	CP0031 – UV Finger Trough Concrete Modification	\$3,751.65	1 days
2	CP0034 – Piping for Influent Pump Station Piping Pump 6	\$111,644.08	19 days
3	CP0035 – HVAC unit for Turbidity Building	\$3,362.56	2 days
4	CP0037 – Electrical Building Ladder Anchors	\$9,286.04	5 days
5	CP0040 – Conductivity Probe change at UV	\$3,437.68	3 days
6	CP043 – 2"NPW unforeseen utility line break	\$1,009.42	0
	Subtotal – Added Scope of Work	\$132,491.43	30 days



Summary of Change Order Items (Continued)			
Item No.	Item Description	Change in Cost	Change in Time
7	CP0039 - Clarifier 1 and 2 Bypass Pumping	\$25,974.22	7 days
8	CP048 – COVID-19 Impacts June 2020 – July 2021	0	37 days
9	CP042 – COVID-19 Impacts August 2021 and Sept. 2021	0	9 days
	Subtotal – COVID-19 Related Impacts	\$25,974.22	53 days
10	CP045 – Oncor Electric Delays	0	30 days
	Subtotal – Other Delays	0	30 days



Summary of Change Order Items (Continued)				
Item No.	Item Description	Change in Cost	Change in Time	
11	CP046 – Bypass Pumping for TCEQ Action Plan	\$62,026.99	0	
12	CP047 – Bypass Pumping for SH130 Interceptor Flows	\$66,116.61	0	
	Subtotal – Bypass Pumping Contingencies	\$128,143.60	0	
13	CP049 Oncor Allowance Credit	(\$150,000.00)	0	
14	CP050 Extra Work Item – Drilled Pier Credit	(\$11,600.00)	0	
	Subtotal - Credits	(\$161,600.00)	0	
	CO 5 Total	\$125,009.25	113 days	



CWWTP Contract Summary (Including CO 05)				
COST		TIME		
Original Contract Amount Approved Contract Modifications	\$ 41,863,737.95	Original Substantial Completion Date	10/12/2021	
(CO 01 – CO 04)	\$ 510,577.29	Approved Time Extension (CO 01 – CO 04)	77	
CO 05 Contract Modifications	\$ 125,009.25	CO 05 Contract Modifications Revised Contract Substantial Completion	113	
Revised Contract Price	\$ 42,499,324.49	Date	4/20/2022	
CO 01 - CO 05 = 1.5% of contract price	e (5%-8% is typical)			



- Professional Services, Time Extension
- Phase 1 Improvements
 - Project Duration has extended to current planned Substantial Completion of April 20, 2022 and Final Completion of June 19, 2022
 - Time extension required due to various scope additions and COVID-19 Impacts
- Time impact on project to date
 - Original Project Duration 702 days
 - Current Project Duration 883 day (25% increase)
- Authorization for Professional Services
 - Continuity of Current Team on Phase 1
 - Consistency in Cost, Time and Quality Management



- Professional Services, Time Extension
- Plus Six Engineering, LLC
 - Owner's Representative Services
 - Original Contract Amount \$2,954,744.00
 - Supplemental Agreement #1 \$88,527.19
 - Proposed Supplemental Agreement #2 \$434,560.00
 - Total Revised Contract Amount \$3,477,831.19
 - SA#2 Represents a 15% cost increase for a 25% time increase

Scope of Services

- Task 110 Program Construction Manager Services
- Task 120 Project Construction Manager Services
- Task 130 Resident Project Representative Services
- Task 140 Commissioning and Start-up Services
- Task 150 Construction Manager Support Services





- Preparing for the near future What other impacts may be seen?
 - COVID-19 is ongoing still possible staffing shortages
 - Cost Escalations (due to COVID-19 and Global Shipping Crisis)
 - Have received notices and contract does not allow payment
 - Potential for delay if suppliers do not accept contractual language
 - City Legal has been contacted
 - Ongoing Construction there are still unknowns



Questions?









• The project team would like to invite any interested members of Council or city staff to come tour the project site and see progress firsthand