Water Supply Update

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Water Supply Projects Update

Nueces River Groundwater Wells Project Phase 1 - To River

Eastern Well Field

- Volume Permitted for 17,920 acre-feet/year (~16 MGD)
- Permits Bed & Bank Permit secured on August 7, 2025
- Timeline Immediate (discharging 5 7 MGD)

Western Well field

- Volume Up to 27 MGD
- Permits In progress
- Timeline Drilling wells now on cleared site

Estimated Capital Cost (Western and Eastern Well Field): \$18M to date. \$30M grant funding secured from the State of Texas

Nueces River Groundwater Wells Project Phase 2 - Treatment Facility and Pipeline

Eastern Well Field

Volume – Sustained production 11 MGD

Western Well Field

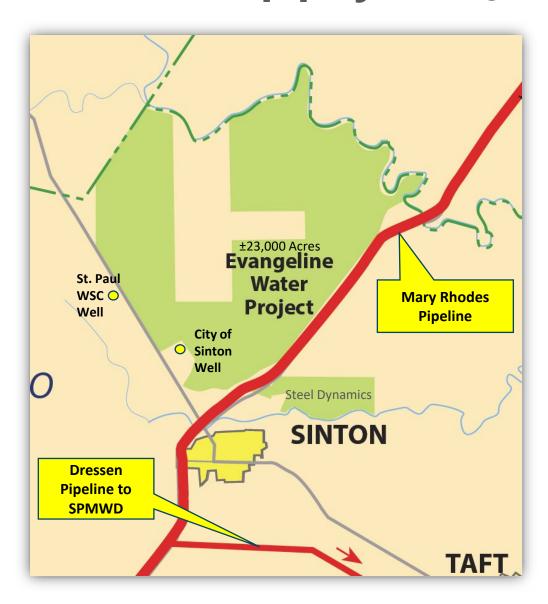
- Volume Estimated Sustained production 17 MGD
- Permits Bed & Bank Permit still needed

Treatment Facility and Pipeline

- Volume Total estimated sustained production 28 MGD
- Timeline: 2028
- Estimated Capital Cost (Brackish RO and Pipeline for Western and Eastern Well Fields): \$350M



Water Supply Projects Update



- Evangeline Groundwater Project Phase 1 (Into Mary Rhodes Pipeline)
 - ·Volume 12 MGD
 - •Timeline: 2029 (per Garver)
 - •Estimated Capital Cost: \$200M
 - ·Water Rights Purchase: \$169M
- Evangeline Groundwater Project Phase 2
 (With RO Treatment and Additional Pipeline)
 - ·Volume Total 24 MGD
 - •Timeline: TBD
 - Estimated Capital Cost: \$640M
 - Water Rights Purchase: \$169M



NRA - Harbor Island Seawater Desalination

Project Overview: Phase 1 – 100 MGD

- Public Private Partnership (P3) DBFOM & Transfer
- Permits recently submitted for USACE (Feb 2025) and TCEQ discharge (April 2025)
- Easement Amendment to GLO not submitted yet.
- Cost model not developed.
- Timeline (per NRA 8.12.2025 presentation to City Council) Delivery 2029 2032

Reservation Fees proposed to City

Water Purchase Agreement Amount	Annual Reservation Fee
30 MGD	\$821,289.49
40 MGD	\$1,095,052.65
50 MGD	\$1,368,815.81

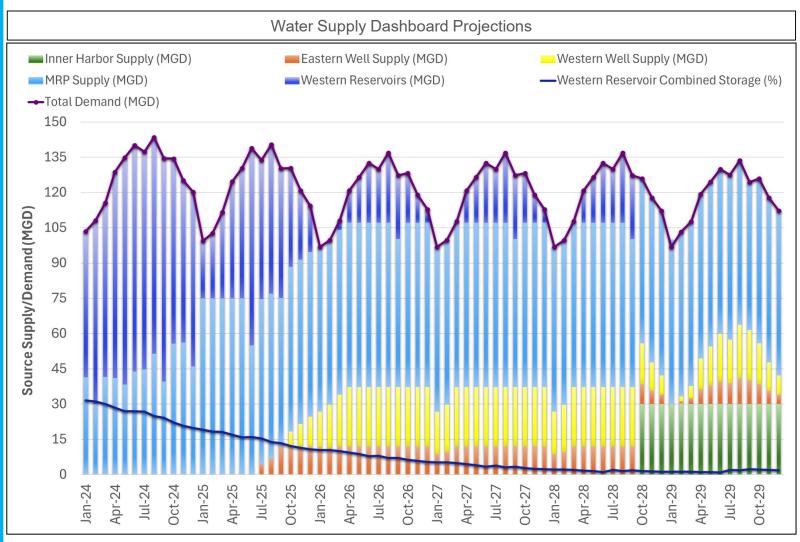
- The reservation fee provides a one-year option that must be renewed and paid annually.
- Fee would be paid for out of operating fund.

Next Steps for Supplemental Projects

- Evangeline Groundwater Project
 - Wednesday, August 27, 2025
 - Invited: Project sponsor Council member Carolyn Vaughn, Mayor, City Staff, City Consultant, and Evangeline/Laguna LP
- CC Polymers Seawater Desalination Treatment Plant
 - Wednesday, August 27, 2025
 - Invited: Project Sponsor Council member Gil Hernandez, Mayor, City staff, CC Polymers, and City Consultants
- Harbor Island Seawater Desalination Project
 - Thursday, August 28, 2025
 - Invited: City staff and NRA
- Effluent Reuse Project
 - Thursday, August 28, 2025
 - Invited: City staff and Ardurra
 - Tuesday, September 9, 2025 Presentation to City Council
- South Texas Water Authority
 - Tuesday, September 23, 2025 Briefing to City Council



Reservoir Capacity Projections



	Eastern Wellfield	Western Wellfield	Inner Harbor		
Anticipated Volume (MGD)	Near Term: 11 Long Term: 11	Near Term: 27 Long Term: 17	Long Term: 30		
Date online	August 2025	April 2026	October 2028		
Projected Date of ZERO water in LCC and CCR	May 2027	May 2029	Never		



Thank you!



Water Supply Projects Update



- Evangeline Groundwater Project Phase 1 (Into Mary Rhodes Pipeline)
 - ·Volume 12 MGD
 - •Timeline: Q2 2029 (per Garver)
 - •Estimated Capital Cost: \$200M
 - ·Water Rights Purchase: \$169M

ID	Task Name	Duration	Start	Finish	2, 2025 \ S O N	Half 1, 2026	Half 2, 2026 Ha	f 1, 2027 Half 2,	2027 Half 1, 2028	B Half 2, 2028	Half 1, 2029	Half 2, 2029	Half 1, 2030	Half 2, 2030
1	Approach 1: Evangeline - 12 MGD (Best Possible Timeline)					, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		13101K1217111M17	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,7,2,3,3,4,5,
2	Task 1 - Electrical Service to Sites	18 emons	Sat 2/28/26	Sun 8/22/27		—								
3	Task 2 - Groundwater conservation district permitting	6 emons	Wed 10/1/2	5Mon 3/30/26										
4	Task 3 - Selection and approval of engineer	3 emons	Wed 10/1/2	5Tue 12/30/25		7								
5	Task 4 - Engineering	12 emons	Tue 12/30/2	5Fri 12/25/26		*								
6	Task 5 - Boundary Surveys and Easement Acquisition	12 emons	Sat 2/28/26	Tue 2/23/27		-		-						
7	Task 6 - Bid Phase	4 emons	Fri 12/25/26	Sat 4/24/27			#	7						
8	Task 7 - Pre procurement of long lead equipment	18 emons	Fri 12/25/26	Sat 6/17/28			*							
9	Task 8 - Construction	24 emons	Sat 4/24/27	Fri 4/13/29				*			ጎ			
10	Project complete	0 days	Fri 4/13/29	Fri 4/13/29							4 /	13		
11														
12	Approach 2: Evangeline - 12 MGD (More Likely Timeline)													
13	Task 1 - Electrical Service to Sites	24 emons	Wed 4/29/2	6Tue 4/18/28						ı				
14	Task 2 - Groundwater conservation district permitting	18 emons	Wed 10/1/2	5Thu 3/25/27										
15	Task 3 - Selection and approval of engineer	5 emons	Wed 10/1/2	5Sat 2/28/26		ի								
16	Task 4 - Engineering	15 emons	Sat 2/28/26	Mon 5/24/27		*		7						
17	Task 5 - Boundary Surveys and Easement Acquisition	18 emons	Wed 4/29/2	6Thu 10/21/27		-								
18	Task 6 - Bid Phase	5 emons	Mon 5/24/2	7Thu 10/21/27				T	- 1					
19	Task 7 - Pre procurement of long lead equipment	24 emons	Mon 5/24/2	7Sun 5/13/29				*						
20	Task 8 - Construction	36 emons	Thu 10/21/2	7Sat 10/5/30					*					
21	Project complete	0 days	Sat 10/5/30	Sat 10/5/30										10/5
22														