

# NOTICE OF MEETING OF THE BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT BOARD OF DIRECTORS

Thursday, December 8, 2022

5:00 PM

**IN-PERSON** 

Notice is given that a **Regular Meeting** of the Board of Directors (Board) of the Barton Springs/Edwards Aquifer Conservation District will be held on **Thursday, December 8, 2022** commencing at **5:00 p.m.** at **the District office, located at 1124 Regal Row, Austin, Texas.** 

This meeting will be audio recorded and the recording will be available on the District's website after the meeting.

Public Comments at the Board Meeting – Please complete a comment card prior to the start of the meeting. Each registered person will be recognized and identified by the Presiding Officer or staff moderating the communications when it is their turn to speak. Public comment is limited to 3 minutes per person.

# **AGENDA**

Note: The Board of Directors of the Barton Springs/Edwards Aquifer Conservation District reserves the right to meet in Executive Session at any time during the course of this meeting to discuss any of the matters listed on this agenda, as authorized by the Texas Government Code Sections §551.071 (Consultation with Attorney), 551.072 (Deliberations about Real Property), 551.073 (Deliberations about Gifts and Donations), 551.074 (Personnel Matters), 551.076 (Deliberations about Security Devices), 551.087 (Economic Development), 418.183 (Homeland Security). No final action or decision will be made in Executive Session.

- 1. Call to Order.
- 2. Citizen Communications (Public Comments of a General Nature).
- 3. Consent Agenda. (Note: These items may be considered and approved as one motion. Directors or citizens may request any consent item be removed from the consent agenda, for consideration and possible approval as a separate item of Regular Business on this agenda.)
  - a. Approval of Financial Reports under the Public Funds Investment Act, Directors' Compensation Claims, and Specified Expenditures greater than \$5,000. **Pg. 4**
  - b. Approval of minutes of the Board's November 10, 2022 Regular Meeting. **Not for public review at this time**
  - c. Approval of a Master Services Contract with INTERA, Inc. for groundwater-related technical support. Pg. 21

# 4. General Manager's Report. Discussion and possible action. Topics

- a. Review of key team activities/projects. Pg. 30
- b. Aquifer status update.
- c. Upcoming events of possible interest.

# 5. Presentation.

- a. Presentation by the District's financial auditor on the FY 2022 Annual Financial Audit Report. **NBU**
- b. Presentation by Staff on policy-related topics concerning unreasonable impacts and/or sustainable use of the Trinity Aquifer(s). **NBU**

# Discussion and Possible Action.

- a. Discussion and possible action related to the receipt and approval of the FY 2022 Annual Financial Audit report provided by the District's financial auditor.
- b. Discussion and possible action on approving the FY 2022 Annual Report including Appendix B. **Pg. 47**
- c. Discussion and possible action related to the performance and compliance of District permittees with their User Drought Contingency Plan curtailments. **NBU**
- d. Discussion and possible action related to the election of Board Officers. **NBU**

# 7. Director Reports.

Directors may report on their involvement in activities and dialogue that are of likely interest to the Board, in one or more of the following topical areas:

- Meetings and conferences attended or that will be attended;
- Board committee updates;
- Conversations with public officials, permittees, stakeholders, and other constituents;
- Commendations; and
- Issues or problems of concern.

# 8. Adjournment.

Please note: This agenda and available related documentation, if any, have been posted on the District website, <a href="www.bseacd.org">www.bseacd.org</a>. If you have a special interest in a particular item on this agenda and would like any additional documentation that may be developed for Board consideration, please let staff know at least 24 hours in advance of the Board Meeting so that we can have those copies made for you. The Barton Springs/Edwards Aquifer Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-282-8441 at least 24 hours in advance if accommodation is needed.

# Item 1 Call to Order

# Item 2 Citizen Communications

# Item 3

# **Consent Agenda**

(Note: These items may be considered and approved as one motion. Directors or citizens may request any consent item be removed from the consent agenda, for consideration and possible approval as a separate item of Regular Business on this agenda.)

- a. Approval of Financial Reports under the Public Funds Investment Act, Directors' Compensation Claims, and Specified Expenditures greater than \$5,000.
- b. Approval of minutes of the Board's November 10, 2022 Regular Meeting.
- c. Approval of a Master Services Contract with INTERA, Inc. for groundwater-related technical support.

# Financial Reports – November 2022

# December 8, 2022 Board Meeting

# 1. Profit and Loss Budget vs Actual

September 1, 2022 through November 30, 2022

# 2. Profit and Loss Previous Year Comparison

September 1, 2022 through November 30, 2022

# 3. Balance Sheet Previous Year Comparison

As of November 30, 2022 (compared to November 30, 2021)

# 4. Check Register - TRUIST Bank Account

November 1, 2022 through November 30, 2022

These reports are pre-E-O-Y pre-audit adjustments.
(Most adjustments have been made but others may be made after the final audit report is presented.)

# 1. Profit and Loss Budget vs Actual

November 1, 2022 - November 30, 2022

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# **BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT BUDGET VS ACTUAL - PROFIT AND LOSS**

# September 1, 2022 - November 30, 2022

	Sept 1 - Nov 30, 2022	Budget	% of Budget	Notes
INCOME				
4400.0 · Interest Income	7,974.31	1,600.00	498.39%	Increase due to market change.
4625.0 · MISCELLANEOUS INCOME	41,389.47	00.00	100.0%	\$39,875 Intera Database Remittance
4800.0 · USAGE AND PRODUCTION FEES	846,827.39	1,619,554.00	52.29%	Permittees, CoA/AWU, Transport and Annual Renewals
4810.0 · OTHER FEES	31,755.00	12,300.00	258.17%	Well Development, Applications, DMFs, Pluggings, etc.
TOTAL INCOME	927,946.17	1,633,454.00	56.81%	(includes \$2500 permit special provision)
EXPENSE				
6000.0 · UTILITIES	4,381.30	22,000.00	19.92%	
6005.0 · Print/Copy/Photo Services	1,043,65	2,000.00	52.18%	Includes envelopes order.
6007.0 · Postage/Freight/Shipping	615.70	2,000.00	30.79%	
6010.0 · Office Supplies	1,237,76	6,000.00	20.63%	
6010.2 · Office Furniture	0.00	1,000.00	%0.0	
6011.0 · Comp Hardware-Plotter Supplies	545.00	6,000.00	9.08%	In general, meant to cover two employee desktop replacements.
6014.0 · Software Acquisition & Upgrades	212.50	6,000.00	3.54%	
6015.0 · 1T Monthly Maintenance	4,560.40	44,100.00	10.34%	
6016.0 · Meeting Expense	547.45	4,500.00	12.17%	
6017,3 - Sponsorships	00.0	3,750.00	%0.0	
6019.0 - Subscriptions/Publications	00.0	9,000.00	%0.0	
6020.0 - AdvertisIng	332.00	4,000.00	8.3%	
6021.0 · MISCELLANEOUS EXPENSES	119.50	0.00	100.0%	
6022.0 · Accounting System Operation	671.20	6,000.00	11.19%	
6023.0 · MAINTENANCE	9,198.16	21,500.00	42.78%	Office and Auto (includes A/C repair)
6040.0 · LEASES	2,289.90	9,650.00	23.73%	Copier and Postage Machine
6065.0 · DIRECTOR EXPENSES	00.0	2,500.00	%0.0	
6066.0 · Directors Compensation	1,500.00	25,000.00	%0.9	
6075.0 · DUES & MEMBERSHIPS	2,610.00	6,100.00	42.79%	
6080.0 · COMMUNICATIONS AND OUTREACH	145.76	17,050.00	0.86%	
6081.0   REGULATORY COMPLIANCE	1,300.00	7,500.00	17,33%	

needed to balance the budget.

	Sept 1 - Nov 30, 2022	Budget	% of Budget	Notes
6084.92 - GENERAL MANAGEMENT	0.00	5,000.00	0.0%	
6089.0 - AQUIFER SCIENCE	374.84	15,000.00	2.5%	
6095.0 - CONTRACTED SUPPORT	1,950.00	40,750.00	4.79%	New placement (moved out of Team Budgets)
6100,0 - INSURANCE - DISTRICT	2,329.24	7,047.00	33.05%	Property, Auto, Liability, E&O
6150.0 : INSURANCE - GROUP	29,601.62	150,660.00	19.65%	Health, Dental, Life, Disability, Vision
6160,0 · LEGAL SERVICES	12,985.00	85,000.00	15.28%	General Matters
6170.0 - PROFESSIONAL SERVICES	17,748.97	183,850.00	9.65%	Audit, Elections, Database, Retirement Fees
6179.0 · LEGISLATION	2,000.00	36,000.00	5.56%	
6180.0 - PROFESSIONAL DEVELOPMENT	665.38	20,000.00	3.33%	
6199.0 - SALARIES AND WAGES	190,749.50	852,865.00	22.37%	
6203.0 · TAXES & BENEFITS	42,060.92	128,327.00	32.78%	
6690.0 · Reconciliation Discrepancies	00.0	00.00	0.0%	
6800.0 PROJECTS	00'0	17,500.00	0.0%	Sustainability Studies 12k, Abandoned Wells 3k, Antioch 2.5K
TOTAL EXPENSE	331,775.75	1,743,649.00	19.03%	
NET ORDINARY INCOME	596,170.42	-110,195.00	-541.01%	-541.01% Negative effect (shortfall) to budget before accounting
TMC CIVI GOUTE				for the transfers to balance the budget, shown below.
O STEN STOCKE				
9000.00 Transfer from Reserves	00.00	110,200.00	%0.0	\$107,200 FROM General and \$3000 from TexPool Aquifer
TOTAL OTHER INCOME	00'0	110,200.00	0.0%	Reserve (General sub-account)
NET INCOME	596,170.42	5.00		This is the difference between the negative amount in Net
				Ordinary Income before the transfers in from other accounts,

# 2. Profit and Loss - Previous Year Comparison

September 1, 2022 - November 30, 2022

# Page 1 of 2

# BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT PROFIT AND LOSS - PREVIOUS YEAR COMPARISON

September 1, 2022 through November 30, 2022

	Sept 1 - Nov 30, 2022	Sept 1 - Nov 30, 2021	\$ Change	% Change
INCOME				
4400.0 · Interest Income (increase due to market change)	7,974.31	138.78	7,835.53	5,646.01%
4625.0 · MISCELLANEOUS INCOME (includes \$39,875 Intera Database payment)	41,389.47	471.94	40,917.53	8,670,07%
4800.0 · USAGE AND PRODUCTION FEES (permittees, CoA, transport, renewals)	846,827.39	797,429.80	49,397,59	6.2%
4810.0 · OTHER FEES (well development, applications, pluggings) **	31,755.00	5,736.50	26,018,50	453.56%
TOTAL INCOME	927,946.17	803,777.02	124,169,15	15.45%
EXPENSE				
6000.0 · UTILITIES	4,381.30	4,575.39	-194.09	-4.24%
6005.0 · Print/Copy/Photo Services	1,043.65	261.45	782.20	299.18%
6007.0 · Postage/Freight/Shipping	615.70	300.00	315.70	105.23%
6010.0 · Office Supplies	1,237.76	1,122.16	115.60	10.3%
6010.2 · Office Furniture	0.00	57.35	-57.35	-100.0%
6011.0 · Comp Hardware-Plotter Supplies	545.00	79992	-221.67	-28.91%
6014.0 · Software Acquisition & Upgrades	212.50	92.00	120.50	130.98%
6015.0 · IT Monthly Maintenance	4,560.40	4,290.00	270.40	6.3%
6016.0 · Meeting Expense	547.45	326.79	220.66	67.52%
6019.0 · Subscriptions/Publications	0.00	199.00	-199.00	-100.0%
6020.0 · Advertising	332.00	0.00	332.00	100.0%
6021.0 · MISCELLANEOUS EXPENSES	119.50	-94.05	213.55	227.06%
6022.0 · Accounting System Operation	671,20	847.55	-176.35	-20.81%
6023.0 · MAINTENANCE - Office and Auto (\$6,400 in FY2023 is for A/C repairs)	9,198.16	3,232.20	5,965.96	184.58%
6040.0 · LEASES (Copier and Postage Machine)	2,289,90	2,554.80	-264.90	-10.37%
6065.0 · DIRECTOR EXPENSES	0.00	0.00	00:00	%0.0
6066.0 · Directors Compensation	1,500.00	2,400.00	00'006-	-37.5%

	Sept 1 - Nov 30, 2022	Sept 1 - Nov 30, 2021	\$ Change	% Change
6075.0 · DUES & MEMBERSHIPS	2,610.00	2,665.00	-55.00	-2.06%
6080.0 · COMMUNICATIONS AND OUTREACH	145.76	1,270.00	-1,124.24	-88.52%
6081.0 · REGULATORY COMPLIANCE	1,300.00	1,055.00	245.00	23.22%
6084.92 · GENERAL MANAGEMENT	0.00	282.36	-282.36	-100.0%
6089.0 · AQUIFER SCIENCE	374.84	1,146.26	-771.42	-67.3%
6095.0 · CONTRACTED SUPPORT	1,950.00	0.00	1,950.00	100.0%
6100.0 · INSURANCE - DISTRICT (Property, Liability, Auto, E&O)	2,329.24	1,174.18	1,155.06	98.37%
6150.0 · INSURANCE - GROUP (Employee Health, Dental, Life/Disability, Vision)	29,601.62	27,762.72	1,838.90	6.62%
6160.0 LEGAL SERVICES	12,985.00	15,192.50	-2,207.50	-14.53%
6170.0 · PROFESSIONAL SERVICES (Audit, Election, Database, Retirement Fees)	17,748.97	13,548.87	4,200.10	31.0%
6179.0 · LEGISLATION	2,000.00	2,000.00	0.00	%0.0
6180.0 · PROFESSIONAL DEVELOPMENT	665,38	2,166.23	-1,500.85	-69.28%
6199.0 · SALARIES AND WAGES	190,749.50	180,305.53	10,443.97	5.79%
6203.0 · TAXES & BENEFITS (\$23,000=vacation journal entry to reconcile with Reserve)	42,060.92	17,339.93	24,720.99	142.57%
6690.0 · Reconciliation Discrepancies	0.00	0.00	0.00	0.0%
TOTAL EXPENSE	331,775,75	286,839.89	44,935.86	15.67%
NET INCOME	596,170.42	516,937.13	79,233.29	15.33%

CAPITALIZATION INDICATES ACCOUNTS THAT HAVE SUB-CATEGORIES.

Those sub-categories have been collapsed.

<sup>\* \$38,534</sup> is the CoA increase for 2023 (\$879,976 vs \$802,908 = \$19,267 more per quarter).
This report includes two quarters.

<sup>\*\* \$23,030</sup> is Aqua and PCSI overpumpage that did not occur in previous year .

<sup>\*\*\*</sup> FY 2023 includes \$1,188 Crime Policy that renews every 4 years.

# 3. Balance Sheet - Previous Year Comparison

As of November 30, 2022 (compared to November 30, 2021)

# BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT BALANCE SHEET - PREVIOUS YEAR COMPARISON

As of November 30, 2022

	M			
ASSETS	NOVERTIDES 30, 2022	November 30, 2021	◆ Change	% cnange
Current Assets				
Checking/Savings				
1000.0 · Cash in Bank-Checking Truist	92,667.80	87,163.22	5,504.58	6.32%
1010.0 · Cash in Bank - Payroll Truist	29,999.21	28,060,42	1,938.79	6.91%
1030.0 · TexPool Funds - General				
1030.1 - Aquifer Protection Reserve	53,750.00	52,050.00	1,700.00	3.27%
1030.21 · Cash Flow Reserve	175,000.00	175,000.00	0.00	%0.0
1030.0 · TexPool Funds - General - Operational	877,135.67	716,899.39	160,236.28	22.35%
Total 1030.0 · TexPool Funds - General	1,105,885.67	943,949.39	161,936.28	17,16%
1040.0 · TexPool Funds - Contingency	509,600.82	504,813.09	4,787.73	0.95%
1045.0 · TexPool Funds - Reserve (Vacation and Comp Payable)	65,175.97	61,065.29	4,110.68	6.73%
Total Checking/Savings	1,803,329.47	1,625,051.41	178,278.06	10.97%
Accounts Receivable				
1200.0 · Accounts Receivable				
1200.1 · A/R DMF (Drought Management Fees)	2,100.00	00'0	2,100.00	100.0%
1200.0 - Accounts Receivable - Other (billed invoices not yet paid)	331,820.15	256,702.35	75,117.80	29.26%
Total 1200.0 - Accounts Receivable	333,920.15	256,702.35	77,217.80	30.08%
Total Accounts Receivable	333,920.15	256,702.35	77,217.80	30.08%
Other Current Assets				
1100.0 - Petty Cash	300.00	300.00	00.00	%0.0
1300.0 · Pre-paid Expenses	13,271,71	12.957.21	314,50	2.43%
1499.0 · Undeposited Funds-A/R payments (received, posted, not yet deposited)	0.00	64,977,15	-64,977,15	-100.0%
Total Other Current Assets	13,571.71	78,234,36	-64,662.65	-82.65%
Total Current Assets	2,150,821.33	1 959 988 12	190,833,21	9.74%

•	November 30, 2022	November 30, 2021	\$ Change	% Change
Fixed Assets				
1400.0 · Field Equipment	376,487.89	376,487.89	00'0	%0:0
1410.0 · Office Equipment & Furniture	19,722.90	19,722.90	0.00	0.0%
1410.1 · Computer Hardware & Software	19,329.69	19,329.69	0.00	0.0%
1420.0 · Vehicles	52,363.03	52,363.03	00:00	%0.0
1430.0 · Accumulated Depreciation	-608,852.24	-608,852.24	0.00	%0.0
1440.0 · Land (Antioch Cave)	165,415.00	165,415.00	00:00	%0:0
1445.0 · Office Building	268,588.04	268,588.04	0.00	0.0%
Total Fixed Assets	293,054.31	293,054.31	00:00	%0.0
Other Assets				
1500.0 · Organizational Costs	300,783.26	300,783.26	0.00	%0:0
1510.0 · Accumulated Amortization	-326,324.26	-326,324.26	00.00	%0"0
1600.0 · Deposits Paid (Utilities)	71.00	71.00	0.00	%0.0
Total Other Assets	-25,470.00	-25,470.00	0.00	%0.0
TOTAL ASSETS ==	2,418,405.64	2,227,572.43	190,833.21	8.57%
LIABILITIES & EQUITY				
Liabilities				
Current Liabilities				
Credit Cards				
2007.0 · Truist VISA	-3,228.23	871.83	4,100.06	-470.28%
Total Credit Cards	-3,228.23	871.83	4,100.06	-470.28%
Other Current Liabilities				
2010.0 · Rebates Payable-Cons Credits (audit adjustment will result in a zero for FY 2023)	44,741.10	44,741.10	0.00	%0.0
2100.0 · Deferred Revenue	75,741.00	75,741.00	0.00	%0.0
2110.0 · Direct Deposit Liabilities	-21,611.59	-5,574.33	-16,037.26	-287.7%
2200.0 · Fica & Medicare Withheld	-11.31	35.52	-46.83	-131.84%
2220.0 · Federal Income Tax Withheld	-1,065.01	-1,035.01	-30.00	-2.9%
2230.0 · Employer Fica & Med Payable	-150.56	-103.73	-46.83	-45.15%
2250.0 · TWC Unemployment Tax Payable	9.00	0.29	8.71	3,003.45%

Total Other Current Liabilities

Total Current Liabilities Total Liabilities

Equity
3000 0 - Find Ra

3000.0 · Fund Balance

3000.3 · Invested in Capital Assets

3110.0 · Reserve for Petty Cash

Net Income

Total Equity

TOTAL LIABILITIES & EQUITY

November 30, 2022	November 30, 2021	\$ Change	% Change
0.09	0.09	0.00	%0.0
77,546.76	49,344.38	28,202.38	57.15%
175,199.48	163,149.31	12,050.17	7.39%
171,971.25	164,021.14	7,950.11	4.85%
171,971.25	164,021.14	7,950.11	4.85%
1,284,836.71	1,181,186.90	103,649.81	8.78%
365,127.26	365,127.26	0.00	0.0%
300.00	300.00	0.00	%0.0
596,170.42	516,937.13	79,233.29	15.33%
2,246,434.39	2,063,551.29	182,883.10	8.86%
2,418,405.64	2,227,572.43	190,833.21	8.57%

# 4. Check Register

TRUIST BANK November 1 – November 30, 2022

# BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT

# **MONTHLY CHECK REGISTER**

# November 1, 2022 - November 30, 2022

					į	84,957.50
Check	11/01/2022	26524	Pedernales Electric Cooperative	Electricity 9/21/2022 - 10/23/2022	-432.53	84,524.97
Check	11/01/2022	26525	Quill Corporation	Paper, Envelopes, Clips	-250.91	84,274.06
Check	11/01/2022	26526	Tammy Raymond	Employee Expense Reimbursement TR (postage, supplies)	-236.10	84,037.96
Check	11/01/2022	26527	Crown Trophy	Name Plate and Badge VP-W	-26.70	84,011.26
Check	11/02/2022	26528	Jan-Pro of Austin	November Cleaning Service	-270.00	83,741.26
Check	11/02/2022	26529	Staples	Copy Paper	-69.85	83,671.41
Liability Check	11/03/2022	11042022	United States Treasury	74-2488641 Bi-weekly Employee Payroll Liabilities	-8,547.73	75,123.68
Liability Check	11/03/2022	EFT110323	Reliance Trust Company	Employee Bi-weekly Retirement	4,174.56	70,949.12
Check	11/03/2022	26530	Home Depot	AC Filters	40.80	70,908.32
Check	11/03/2022	26531	Bickerstaff	Legal Services 9/19/2022 - 10/14/2022	-7,210.00	63,698.32
Check	11/03/2022	26532	Enhanced Air Solutions	AC air purifiers, coil clean and sanitizer	-2,000.00	61,698.32
Check	11/04/2022	26533	Charter Communications	Internet Service 10/30/2022 - 11/29/2022	-231.19	61,467.13
Check	11/07/2022	26534	Jumping Jack Dog Ranch	Refund for permit reduction of 200,000 glns @ \$0.48/1000 glns	-96.00	61,371.13
Transfer	11/08/2022			Funds Transfer - to cover payroll	-30,000.00	31,371.13
Deposit	11/08/2022			Deposit (production fees; includes PCSI \$11,480 overpumpage)	38,287.14	69,658.27
Liability Check	11/09/2022	26536	United Healthcare	November Employee Health Insurance	-9,561.18	60'092'09
Check	11/09/2022	26537	The Hartford	Crime Insurance Policy (as required by Chapter 36)	-1,188.00	58,909.09
Check	11/09/2022	26538	Waste Management	November Trash and Recycle	-572.55	58,336.54
Check	11/09/2022	26539	Wex (aka Shell/Exxon)	Gasoline	41.48	58,295.06
Check	11/10/2022	26540	Montemayor Britton Bender PC	FY 2022 Audit Progress payment	4,750.00	53,545.06
Check	11/10/2022	26541	Pitney Bowes Global Financial	Postage Refill	-300.00	53,245.06
Check	11/15/2022	26542	CIT Technology Fin Serv, Inc	Copier Lease November	-675.00	52,570.06
Transfer	11/15/2022			Funds Transfer (replenish low checking balance)	40,000.00	92,570.06
Check	11/15/2022	26543	Sam's Club	Paper towels, napkins, sponges	-59.86	92,510.20
Check	11/15/2022	26544	SledgeLaw Group	October Legislative Consulting	-1,000.00	91,510.20
Check	11/15/2022	26545	Ready Refresh	Water cooler cleaned; bottled water delivered	-246.90	91,263.30
Check	11/15/2022	26546	Telco Experts	VOIP Phone service	-455.50	90,807.80
Liability Check	11/15/2022	26547	United Healthcare	December Employee Health Insurance	-9.561.18	81 246 62

Type	Date	Num	Name	Мето	Amount	Balance
Liability Check	11/15/2022	26548	AFLAC	Supplemental Insurance Employee-paid	-107.30	81,139.32
Check	11/15/2022	26549	Fidelity Security Life Insurance	December Gap Insurance	-848.21	80,291.11
Liability Check	11/15/2022	26550	Sun Life Assurance	December Life/Disability/Dental/Vision	-1,368.08	78,923.03
Liability Check	11/17/2022	EFT11172022	11/17/2022 EFT11172022 United States Treasury	74-2488641 Employee Bi-weekly Payroll Liabilities	-8,547,65	70,375,38
Liability Check	11/17/2022 111722	111722	Reliance Trust Company	Employee Bi-weekly Retirement	-4,174.56	66,200.82
Check	11/18/2022	26551	Higginbotham Insurance	VP-W Director Bond	-178.00	66,022.82
Check	11/18/2022	26553	Texas State University	Water Samples for Regulatory Compliance	-325.00	65,697.82
Liability Check	11/21/2022	EFT11222022	EFT11222022 United States Treasury	74-2488641 Director Compensation Liabilities	-61.20	65,636.62
Transfer	11/21/2022			Funds Transfer - Vacation	-37,000.00	28,636.62
Transfer	11/21/2022			Funds Transfer - Replenish Low Balance	50,000,00	78,636.62
Deposit	11/21/2022			Deposit (permit fees; includes Aqua \$11,550 overpumpage)	14,052.11	92,688.73
Check	11/22/2022	26554	City of Austin	Water Service 10/12/2022 - 11/08/2022	-20.93	92,667.80
					7,710.30	92,667.80

THIS AGREEMENT ("Agreement") is made as of 8 December 2022 by INTERA Incorporated, ("INTERA") a Texas Corporation, and Barton Springs Edwards Aquifer Conservation District, ("Client") a Texas Groundwater Conservation District. Individually, INTERA and Client are sometimes referred to as a Party and collectively as Parties.

WHEREAS, Client desires INTERA to furnish certain technical, maintenance, construction, installation and/or related services ("Services") and INTERA is willing to do so, subject to the terms and conditions set forth herein.

WHEREAS, in certain situations, Client also desires INTERA to furnish certain equipment, materials and other goods (collectively "Goods") and INTERA is willing to do so, subject to the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements hereinafter set forth, the Parties agree as follows:

### **ARTICLE 1. SCOPE OF SERVICES**

Client desires INTERA to perform the Services and provide the Goods described in the applicable Work Order(s). As of the effective date this Agreement has been approved by the Board of Directors (Board) of the Client approved this Agreement with no Work Order. After the effective date the Client may enter into Work Order(s).. Future Work Orders valued at \$5,000.00 or more require Board approval. Work Orders valued at less than \$5,000.00 require approval of the Client's General Manager.

#### **ARTICLE 2. TERM**

The term of this Agreement will commence on 8 December 2022 and will continue until 31 August 2026 unless sooner terminated as provided in this Agreement.

## **ARTICLE 3. INVOICING AND PAYMENT**

For performance of the Services, Client will pay INTERA the compensation specified in each Work Order. This compensation will be invoiced to Client at monthly intervals along with reimbursables and will be due and payable within 30 days following the date of the invoice. In the event that part of an invoice is in dispute, Client agrees to pay the undisputed portion of the invoice according to the payment terms hereunder. If for any reason Client fails to pay INTERA in full within 30 days from the date of an invoice, Client will pay INTERA a late payment charge each month equal to one percent (1%) of any unpaid balance or the highest rate permitted by law, whichever is the lesser. If for any reason Client fails to pay INTERA in full within 60 days from the date of an invoice, INTERA may, at INTERA's sole option, (i) suspend its performance of Services and supply of Goods until all outstanding bills have been paid in full by Client, (ii) terminate this Agreement and any or all Work Orders and/or (iii) engage debt collection services/commence legal proceedings for the collection of unpaid and undisputed invoiced amounts. INTERA shall be entitled to recover, to the extent allowed by law, its costs and expenses, including reasonable attorney's fees, incurred in connection with all actions taken to obtain or enforce payment by Client of Client's obligations under this Agreement. Payment information is included on INTERA's invoice to Client. As to any provision of this Article inconsistent with Texas Government Code Chapter 2251 (Prompt Payment Act), the provisions of the Prompt Payment Act will apply.

# **ARTICLE 4. REPRESENTATIVES**

INTERA will cooperate with the Client and be subject to the direction and control of Client's designated representative. Client will designate a representative who will be the authorized representative of Client regarding this Agreement and Services and will inform INTERA promptly upon discovery of any aspect of the Services or Goods, which does not meet with Client's approval. INTERA will also designate a representative who will be responsible for the execution of the Services and the provision of Goods and will be the authorized representative of INTERA for this Agreement and each Work Order. Each party may designate a different representative for each Work Order or one representative for all Work Orders.

# ARTICLE 5. RECORDS

For a period of one year after completion of each Work Order under this Agreement, INTERA will, upon written request of the Client, provide reasonable access to necessary supporting records and documentation.

## **ARTICLE 6. RELATIONSHIP OF THE PARTIES**

- 6.1. <u>Independent Contractor</u>. INTERA will perform the Services as an independent contractor. INTERA acknowledges and agrees that no employer-employee relationship exists or is intended to be created between INTERA and Client.
- 6.2. <u>Assumption or Creation of Obligations or Responsibilities</u>. Neither Party will have the right to assume or create obligations or responsibilities of any type in the name of the other Party unless expressly authorized to do so in writing by the Party taking on the obligation.

# **ARTICLE 7. SUBCONTRACTOR AND SUPPLIERS**

INTERA will have the right to retain subcontractors and suppliers to assist INTERA in the performance of the Services and the provision of Goods under each Work Order.

#### **ARTICLE 8. CONFIDENTIALITY AND RIGHTS IN DATA**

- 8.1. <u>Maintenance of Confidentiality</u>. Information disclosed by one Party to the other Party during the performance of a Work Order may include the confidential or proprietary information of the disclosing Party and that Party's agents, subcontractors or suppliers. In the event such information is expressly identified as proprietary or confidential prior to or at the time of disclosure, the Party receiving such information will keep it in confidence and will not furnish or otherwise disclose it to any third party during or after completion of the applicable Services for a period of three years. Neither Party will be obligated to maintain the confidentiality of any information designated by the other Party as confidential or proprietary if the information:
  - 8.1.1. Was in the receiving Party's possession or was known to the receiving Party prior to its receipt from the other Party and the receiving Party was under no prior legal obligation to protect such information;
  - 8.1.2. Is independently developed by the receiving Party without the utilization of the confidential or proprietary information;
  - 8.1.3. Is or becomes public knowledge without the fault of the receiving Party;
  - 8.1.4. Becomes available to the receiving Party from a source other than the disclosing Party where the receiving Party is not under any legal obligation to protect such information; or
  - 8.1.5. The information is disclosed pursuant to a governmental or legal requirement. The receiving Party will give prompt notice to the Disclosing Party of any request for or order to disclose the Disclosing Party's confidential information, so that the disclosing Party has an opportunity to act to avoid such disclosure
- 8.2. <u>Provision of Information to INTERA</u>. Client will promptly furnish INTERA with all information necessary for INTERA to perform the Services and supply the Goods. INTERA and its Subcontractors will be entitled to rely upon such information and upon information from generally acceptable reputable sources without independent verification in the performance of the Services or supplying of Goods.
- 8.3. Intellectual Property. INTERA will have the full title and all rights in and to (including the sole right to obtain patents on) any inventions made or conceived as a result of the performance of the Services. INTERA hereby grants to Client a royalty-free, nonexclusive license for Client to make, have made and use any such invention made or conceived as a result of the performance of the Services or supply of the Goods. All computer programs, applications, methods, mechanized design practices, layouts, and systems developed by INTERA during the term of an applicable Work Order or owned by INTERA on the effective date of this Agreement, will remain the exclusive property of INTERA. Except as otherwise provided in this Article 8, all reports, data, drawings, plans, specifications and other items delivered by INTERA (hereinafter referred to as "Reports") to Client under a Work Order will become the property of Client; however, INTERA is entitled to retain a file copy and utilize such Reports and the material in those Reports in the scope of INTERA's work and/or services for itself and others.
- 8.4. Report Reuse. Reports delivered by INTERA under a Work Order issued under this Agreement are not intended or represented to be suitable for reuse by Client of others for purposes other than those described in that Work Order, nor are they intended to be used by Client in other materials

other than in their complete form. Any such reuse without written verification or modification by INTERA will be at Client's sole risk and without liability or legal exposure to INTERA, and Client shall indemnify and hold harmless INTERA from all claims, damages, losses and expenses including attorney's fees arising out of or resulting therefrom.

#### **ARTICLE 9. TERMINATION**

- 9.1. Client's Right to Terminate. Client may terminate i) one or more Work Orders or ii) this Agreement and All Work Orders upon 30 days prior written notice to INTERA, but such termination will not relieve Client of its obligation to pay INTERA for expenses incurred, Services performed and Goods provided up to the date of termination and all reasonable expenses, which INTERA incurs related to the termination.
- 9.2. INTERA's Right to Terminate. INTERA may terminate i) one or more Work Orders or ii) this Agreement and All Work Orders upon 30 days prior written notice to Client, but such termination will not relieve INTERA of its obligation to provide Client with a copy of all Reports prepared up to the date of termination of the Agreement.

# ARTICLE 10. INDEMNIFICATION, WARRANTY AND LIMITATION OF LIABILITY

- 10.1. INTERA's Indemnification of Client. INTERA will indemnify and hold harmless Client, its officers, employees, and agents (the "Client Indemnified Parties") from losses (including, but not limited to, reasonable attorneys' fees and expenses) of the Client Indemnified Parties to the extent caused by the 1) negligent acts or omissions of INTERA, 2) reckless acts or omissions of INTERA, 3) intentional misconduct of INTERA, 4) material misrepresentations of INTERA, 5) material breaches of contract or warranty by INTERA and 6) infringement of United States patents, copyrights and trademarks by INTERA.
- 10.2. Client's Indemnification of INTERA. To the extent permitted by law, Client will indemnify and hold harmless INTERA, its officers, employees, agents, subcontractors and suppliers (the "INTERA Indemnified Parties") from losses (including, but not limited to reasonable attorneys' fees and expenses) of the INTERA Indemnified Parties to the extent caused by the 1) negligent acts or omissions of Client, 2) reckless acts or omissions of Client, 3) intentional misconduct of Client, 4) material misrepresentations of Client, 5) material breaches of contract or warranty by Client and 6) infringement of United States patents, copyrights and trademarks by Client. This provision does not waive any otherwise applicable governmental immunity of Client.
- 10.3. INTERA's Warranty and Limitation of Liability. INTERA warrants that the Services will be performed, within the limits prescribed by Client, with professional thoroughness and competence. Notwithstanding anything to the contrary herein, INTERA's total cumulative liability for claims of any kind whether based in contract, under any warranty, or otherwise, for any loss or damage arising out of or related to this Agreement, any Work Order or the performance of the Services or supply of Goods under this Agreement and any Work Order, will in no case exceed the compensation paid to INTERA by Client for the Services under the applicable Work Order. This Limitation of Liability provision does not, however, relieve INTERA of any obligation to indemnify Client under Section 10.1 (INTERA'S Indemnification of Client).
- 10.4. Client's Limitation of Liability. Notwithstanding anything to the contrary herein, Client's total cumulative liability for claims of any kind whether based in contract, under any warranty, or otherwise, for any loss or damage arising out of or related to this Agreement, any Work Order or the performance of the Services or supply of Goods under this Agreement and any Work Order, will in no case exceed the compensation paid to INTERA by Client for the Services under the applicable Work Order. This Limitation of Liability provision does not, however, relieve Client of any obligation to indemnify INTERA under Section 10.2 (Client's Indemnification of INTERA).

# **ARTICLE 11. INSURANCE**

- 11.1. <u>Insurance Coverage</u>. Prior to commencing with the Services and at all times during the term of a Work Order, INTERA will provide and maintain in full force and effect, insurance of the types and with limits not less than those specified as follows:
  - 11.1.1. Workers' Compensation Insurance in accordance with the statutory requirements of the State having jurisdiction over employees who are engaged in the Scope of Services, and Employer's Liability insurance of One Million Dollars (\$1,000,000)

each accident; disease-each employee; and disease-policy limit.

- 11.1.2. Commercial General Liability Insurance with a per occurrence limit of One Million Dollars (\$1,000,000). This policy will include Contractual Liability coverage. This insurance will cover bodily injury to or death of persons, and/or loss of or damage to property.
- 11.1.3. Automobile (owned, non-owned or hired) Insurance with an each accident limit of One Million Dollars (\$1,000,000) for bodily injury and property damage liability.
- 11.1.4. Professional Errors and Omissions Insurance of One Million Dollars (\$1,000,000) for each occurrence per claim and in the aggregate.
- 11.2. <u>Insurance Terms and Conditions</u>. All insurance policies provided and maintained by INTERA will be underwritten by insurers which are rated "A VII" or higher by the most current edition of *Best's Key Rating Guide*, and which are authorized to write insurance in the state or states in which the Services are performed or where the Goods are provided.

### **ARTICLE 12. DISPUTE RESOLUTION**

- Negotiation. The Parties will attempt in good faith to resolve any dispute arising out of or relating to this Agreement or a Work Order promptly by negotiation between executives who have authority to settle the controversy. Any Party may give the other Party written notice of any dispute not resolved in the normal course of business. Within ten days after delivery of the notice, the receiving Party will submit to the other a written response. The notice and response will include (a) a statement of that Party's position and a summary of arguments supporting that position, and (b) the name and title of the executive who will represent that Party and of any other person who will accompany the executive in negotiations. Within 20 days after delivery of the initial notice, the executives of both Parties will meet at a mutually acceptable time and place, and thereafter as often as they reasonably deem necessary, to attempt to resolve the dispute. All reasonable requests for information made by one Party to the other will be honored. All negotiations pursuant to this clause are confidential and will be treated as compromise and settlement negotiations for purposes of applicable rules of evidence.
- 12.2. <u>Mediation</u>. If the dispute has not been resolved by negotiation as provided above within 30 days after delivery of the initial notice of negotiation, or if the Parties fail to meet within 20 days, the Parties will endeavor to settle the dispute by mediation using the Dispute Resolution Center of Austin, Texas, as the provider of mediators for mediation. Unless the parties are satisfied with the results of the mediation, the mediation will not constitute a final and binding resolution of the dispute. Neither party may be compelled to arbitrate any dispute or claim arising under or related to this Agreement without its express consent.
- 12.3. <u>Litigation</u>. Any dispute arising out of or relating to this Agreement or a Work Order, including the breach, termination or validity thereof, which has not been resolved by mediation as provided above within 50 days after delivery of the initial notice of negotiation will be finally resolved by litigation.
- 12.4. The Client agrees to the joinder of any Subcontractor hired by INTERA to any proceeding under this Agreement that involves or may involve a Subcontractor's Services.

# **ARTICLE 13. NOTICES**

Any notice, request, demand or other communication related to this Agreement or Work Order will be in writing and will be considered duly made three calendar days after the date of deposit in the U.S. Mail, by certified mail, return receipt requested, postage prepaid, addressed to the applicable Party at the following address or when delivered, if delivered by hand or transmitted by telecopy to the other Party at the following addresses or facsimile numbers:

If to INTERA: INTERA Incorporated

Attn: George Westbury, Director of Contracts

9600 Great Hills Trail, Suite 300W

Austin, TX 78759

Telephone: 512.425.2000

Email: gwestbury@intera.com Barton Springs Edwards Aquifer Conservation District

Attn: Tim Loftus, General Manager

1124 Regal Row Austin, TX 78748

Telephone: 512.282.8441

If to Client:

Email: tloftus@bseacd.org

Either Party may change its address or numbers for receiving notices by giving written notice of the change to the other Party.

### **ARTICLE 14. MISCELLANEOUS**

- 14.1. <u>Title to Goods</u>. Title to and risk of loss of or damage to Goods will pass to Client upon delivery of the Good to Client.
- 14.2. Force Majeure. Neither Party will be considered in default in the performance of its obligations hereunder to the extent that the performance of any such obligation is prevented or delayed by any cause, which is beyond the reasonable control of and could not have been anticipated by the affected Party, including, but not limited to, acts of God, storms, floods, fire, strikes, boycotts, other labor disputes, riots, thefts, accidents, acts or failures to act by the other Party; and acts or failures to act by any non-Party government or government agency; provided, however, that any obligation to make payment hereunder will not be extended for any reason. Upon the occurrence of a situation as described above, the time for performance by either Party to this Agreement of its obligations will be extended by a period of time equal to the time lost because of such situation; provided, however, that prompt notice of such a situation will be provided to the other Party and reasonable efforts will be used to mitigate the adverse impact of such a situation.
- 14.3. <u>Responsibility for Taxes</u>. Client is tax exempt and will not be responsible for and will pay any taxes due to any agency arising out of or under this Agreement or a Work Order or the Services and Goods including those taxes levied upon the net income, gross receipts, real, or personal property of INTERA.
- 14.4. <u>Assignment</u>. Neither this Agreement and any Work Orders nor any rights or obligations under this Agreement and any Work Orders will be assigned or otherwise transferred by a Party without the prior written consent of the other Party except that INTERA may assign all or a portion of this the Services or Goods under a Work Order to a subcontractor or supplier without the prior written consent of the Client, provided that such an assignment will not relieve INTERA of responsibility for any of its obligations under this Agreement.
- 14.5. <u>Waiver</u>. The failure of either Party to exercise any right under this Agreement or any Work Order or to take any action permitted will not be deemed a waiver of any right in the event of a subsequent breach of a like or different nature.
- 14.6. Entire Agreement. The terms and conditions set forth in this Agreement and a signed Work Order are intended by both Parties to constitute the final and complete statement of their agreement with respect to the subject matter of this Agreement and Work Order(s), and all prior proposals, communications, negotiations, agreements, understandings and representations relating the subject matter of this Agreement and Work Order(s) are hereby superseded. No modification or amendment of this Agreement or Work Order(s) will be effective unless the same is in writing and signed by both Parties.
- 14.7. Third Party Beneficiaries. Except as expressly provided to the contrary in this Agreement or Work Order(s) this Agreement does not and

- is not intended to confer any rights or remedies upon any person other than the Parties.
- 14.8. <u>Law and Venue</u>. This Agreement and Work Order(s) will be governed by and interpreted in accordance with the laws of the State of Texas without giving effect to its choice of law provisions; and venue shall be in a court of competent jurisdiction in Travis County, Texas.
- 14.9. <u>Severability</u>. The invalidity or unenforceability of any provision of this Agreement and any Work Order will not affect the validity or enforceability of any other provision of this Agreement or Work Order(s), each of which will remain in full force and effect.
- 14.10. <u>Captions</u>. The Articles and Section captions in this Agreement are for convenience of reference only, do not constitute part of this Agreement and will not be deemed to limit or otherwise affect any of the provisions in the Agreement. Similarly, any captions in a Work Order are also for convenience and reference only, do not constitute part of the Work Order and will not be deemed to limit or otherwise affect any of the provisions in the Work Order.
- 14.11. <u>Construction</u>. The Parties to this Agreement and any Work Order participated jointly in the negotiation and drafting of this Agreement and any Work Order. Therefore, in the event any ambiguity or question of intent or interpretation arises, this Agreement and any Work Order will be construed as if drafted jointly by the Parties and no presumption or burden of proof will arise favoring or disfavoring any Party by virtue of authorship of any of the provisions of this Agreement or any Work Order.
- 14.12. <u>Counterparts</u>. This Agreement and any Work Order may be executed in the original, by facsimile, by e-mail or by electronic signature in any number of counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument.
- 14.13. <u>Professional Materials</u>. Unless this Agreement is terminated other than naturally at the end of its term, INTERA may use these Services and Client's name in its promotional and professional materials. INTERA will not disclose information that is identified by Client as confidential or proprietary according to Article 8.
- 14.14. <u>Survival</u>. The provisions of Articles 5, 8, 10 and 12 and Sections 14.3, 14.8 and 14.13 of this Agreement will survive the termination or cancellation of this Agreement and the completion of the Scope of Services under any Work Order.
- 14.15. <u>Priority</u>. To the extent of conflict between the terms of a signed Work Order and the signed Agreement, the terms of the signed Work Order shall govern.
- 14.16. Attachments. The following attachments are made a part of this Agreement for all purposes:

Attachment A - Master Rate Schedule

Attachment B - Work Order Form

Attachment C - Vendor Certifications

14.17. <u>Vendor Certifications</u>. Vendor certifications required under the Texas Government Code are set forth as a contract addendum in **Attachment C** attached hereto and incorporated herein by reference.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives as of the date first above written.

Barton Springs Edwards Aquifer Conservation District	INTERA Incorporated
Due	
By: Printed Name:	By: Printed Name: Wade Oliver, P.G.
Printed Title:	Printed Title: Director of Water Resources, Southern U.S.
Times Time.	Finned Intel. Director of Water resources, Southern 0.5
	Project ID:
ATTEST	
Ву:	
Printed Name:	
Printed Title:	
APPROVED AS TO FORM	
Ву:	
Printed Name:	
Printed Title:	

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# ATTACHMENT A: MASTER RATE SCHEDULE

# **INTERA Labor Hourly Billing Rates**

Labor Category	Rate (\$USD/hr)
Principal Engineer/Scientist I	280
Principal Engineer/Scientist II	250
Principal Engineer/Scientist III	235
Senior Engineer/Scientist I	\$220
Senior Engineer/Scientist II	\$200
Senior Engineer Scientist III	\$185
Senior Engineer/Scientist IV	\$175
Engineer/Scientist I	\$165
Engineer/Scientist II	\$155
Engineer/Scientist III	\$135
Engineer/Scientist IV	\$125
Engineer/Scientist Intern	\$85
Senior Technician	\$140
Technician	\$85
Senior Technical Editor	\$140
Technical Editor	\$95
Senior CAD/Graphics Specialist	\$120
CAD/Graphics Specialist	\$95
Project Associate	\$88

There is a 15% mark up on other direct costs such as subcontractors, vendors, travel and equipment. Mileage is reimbursed at the current IRS standard mileage rate. Rates listed above apply through calendar year 2023. Rates are subject to an annual adjustment of not more than 3 percent per labor category with prior written notification from INTERA for any subsequent calendar years.

# ATTACHMENT B: SAMPLE WORK ORDER FORM

CLIE	NT:					
PROJ	ECT or CONTRACT ID:	WORK ORDER NO:				
1.0	SCOPE OF SERVICES					
2.0	TERM					
	The term of this Work Order will commence on	and will continue until unless sooner terminated by the				
3.0	DELIVERABLES AND SCHEDULE					
4.0	FEES/COMPENSATION/REIMBURSABLES					
	INTERA shall be compensated for work performed on either a Time and Materials or a Fixed Price basis as selected below.					
	☐ TIME AND MATERIALS  FIXED PRICE OR NOT TO EXCEED AMOUNT:	FIXED PRICE  Inclusive of any applicable taxes? YES NO NO				
5.0	DESIGNATED REPRESENTATIVES	<del></del>				
	CLIENT:	INTERA:				
	Printed Name:	Printed Name:				
	Phone:	Phone:				
	Email:	Email:				
5.0	AUTHORIZATION					
	The Services and Goods in this Work Order shall be performed in accordance with the terms and conditions set forth in the Master Technical Services Agreement made on					
	This Work Order is agreed and entered into on	·				
	CLIENT	INTERA Incorporated				
	Printed Name:	Printed Name:				

# ATTACHMENT C – TEXAS GOVERNMENT CODE CERTIFICATIONS

This Addendum is made between the BARTON SPRINGS EDWARDS AQUIFER CONSERVATION DISTRICT ("DISTRICT") and INTERA INCORPORATED ("VENDOR"), (collectively the "Parties") and is hereby incorporated into the *Master Services Agreement* effective November 10, 2022 (the "Agreement"), and any addendums and amendments thereto, in order to verify Vendor's compliance with certain applicable Texas statutes and as further consideration of the Client's execution of the Agreement.

- 1. PROHIBITION ON BOYCOTTING ISRAEL. As required by Section 2271.002, Texas Government Code, Vendor hereby verifies that Vendor does not boycott Israel and will not boycott Israel during the term of the Agreement. For purposes of this verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.
- 2. TERRORISM VERIFICATION. Pursuant to Chapter 2252, Texas Government Code, Vendor hereby represents and warrants that at the time of entering into the Agreement and during the term of the Agreement, neither Vendor, nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of Vendor: (i) is a company listed by the Texas Comptroller under Section 2252.153, Texas Government Code, or (ii) engages in business with Iran, Sudan or any foreign terrorist organization as described in Chapters 806 or 807, Texas Government Code, or Subchapter F of Chapter 2252, Texas Government Code. The term "foreign terrorist organization" has the meaning assigned to such term in Section 2252.151, Texas Government Code.
- 3. PROHIBITION ON BOYCOTTING ENERGY COMPANIES. As required by Section 2274.002, Texas Government Code, Vendor hereby verifies that Vendor does not boycott any energy companies and will not boycott energy companies during the term of the Agreement. For purposes of this verification, "boycott energy company" is defined in Section 809.001, Texas Government Code, as an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company: engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; or does business with a company described above.
- 4. PROHIBITION ON DISCRIMINATION OF FIREARM ENTITY OR FIREARM TRADE ASSOCIATION. As required by Section 2274.002, Texas Government Code, Vendor hereby verifies that Vendor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and will not discriminate during the term of the Agreement against a firearm entity or firearm trade association. For purposes of this verification, "discriminate against a firearm or firearm trade association" is defined in Section 2274.001, Texas Government Code, as refusing to engage in trade of any goods or services with an entity or association based solely on its status as a firearm entity or firearm trade association, refraining from continuing existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association, or terminating an existing business relationship with an entity or association based solely on its status as a firearm entity or firearm trade association.
- 5. PROHIBITION ON AGREEMENTS WITH CERTAIN FOREIGN-OWNED COMPANIES IN CONNECTION WITH CRITICAL INFRASTRUCTURE. As required by Section 2274.0102, Texas

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Government Code, Vendor hereby represents and warrants that at the time of entering into the Agreement and during the term of the Agreement, neither Vendor, nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of Vendor: (i) is owned by or the majority of stock or other ownership interest of the company (a) who are citizens of China, Iran, North Korea, Russia, or a designated country; or (b) a company or other entity, including a governmental entity, that is owned or controlled by citizens of or is directly controlled by the government of China, Iran, North Korea, Russia, or a designated country; or (ii) is headquartered in China, Iran, North Korea, Russia, or a designated country. For purposes of this verification, "designated country" is defined as a country designated by the Texas governor as a threat to critical infrastructure as defined under Section 2274.0103, Texas Government Code.

Vendor acknowledges and agrees that the verifications stated above are material terms of, and material consideration for, the Agreement and that Client is expressly relying on this verification in agreeing to enter the Agreement with Vendor.

6. **FORM 1295** As required by Section 2252.908, Texas Government Code, Vendor is required to complete online and submit to Client a completed Texas Ethics Commission Form 1295 upon execution of this Agreement.

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# Item 4

# General Manager's Report Discussion and possible action topics

# **Topics**

- a. Review of key team activities/projects.
- b. Aquifer status update.
- c. Upcoming events of possible interest.

# Summary of December 2022 Team Activities and On Deck for January/February 2023

# **Aquifer Science Team**

# December Activities:

- Incorporating comments from the TAC into the in-house model.
- Reviewing Edwards and Trinity water-level data for responses to deepening drought
- Preparing for HCP/COA meeting on December 12

# On Deck:

- Submitting proposal to the City of Austin for funds to install HCP monitor well at Barton Springs
- Preparing for HCP meeting with USF&W and MAC in later January

# **Administration Team**

# December Activities:

- January monthly billings to go out on 12/16/2022.
- Drought Management Fees now being assessed for 2<sup>nd</sup> month. Details in Status Report.
- Compile FY 2022 Annual Report and Appendix B for approval at December board meeting.
- Annual Financial Audit/Montemayor Board Presentation \* Annual Payroll Audit/Dylong/TML.

# On Deck: (January)

- Quarterly Tax Reporting (941, C-3); Annual Tax Reporting GTLI, W-2/W-3, 1099-NECs/MISCs, 1096).
- Retirement Plan Pension Review Board Annual Reporting (after audit is completed).

# Regulatory Compliance Team

# December Activities:

- Staff continues to work on new applications and assisting permittees with drought compliance.
- Staff will continue to analyze monthly pumpage to confirm compliance/non-compliance of drought curtailments.
- Staff will begin compiling documentation needed to begin the NOAV process for Aqua TX Bliss Spillar.
- Staff will continue working on acceptable plan for final completion of the EP wells.

# On Deck:

Staff will begin working on HCP annual report requirements.

# **Policy and Project Team**

# December Activities:

- Preparation for Board presentations (Trinity Aquifer Sustainability Plan Policy Analysis).
- Finalize well inventory scope of work
- Database project with LRE.
- Support reg comp on EP well completion discussions

# On Deck:

- Ongoing TWCA and TAGD legislative committees.
- Ongoing sustainable yield data compilation, research, and internal discussions.
- PUI administrative rule change concepts

# **Communications and Outreach Team**

# December Activities:

- Promote Aquatic Science Scholarship on social media/website
- Promote Kent S. Butler Scholarship on social media/website.
- Start working on winter newsletter.
- New drought video with Brian Smith.
- Send out monthly drought update via icontact.

# On Deck

Talk to Blayne Stansberry about doing a video profile for the board. Communications and Outreach plans to
do a video profile on each member that can be included on their bio portion of the website.

# STATUS REPORT UPDATE FOR THE DECEMBER 8, 2022 BOARD MEETING

# Summary of Significant Activities – Prepared by Staff Leads

# **Upcoming Dates of Interest**

- Water for Texas January 23-25 (Austin) 2023
- Groundwater Management Districts Association Winter Conference January 23-26, 2023 – (Simons Island, GA)
- TWGA Annual Convention January 25-27 San Marcos (2023)
- TAGD Winter Business Meeting January 31-February 1 Pflugerville (2023)
- The Sinkhole Conference March 27-31 Tampa (2023)
- Government Social Media Conference May 2-4 Reno (2023)
- TAGD Spring Business Meeting June 6-7 Pflugerville (2023)

# **DROUGHT MANAGEMENT**

# **Drought Status and Water-Level Monitoring (Justin)**

We are currently in a status of Stage 3 Alarm Drought since it was officially declared by General Manager Tim Loftus on October 20, 2022. One of the District's drought triggers, Lovelady Monitor Well, passed below its Critical Drought (Stage III) trigger on October 17, 2022.

November rainfall delivered an average of 3.0 inches across the District. This welcome rain, especially over an inch the day after Thanksgiving, provided a good ground soaking, but little recharge. Area creeks like Onion, Bear and Barton saw little to no rise. November in Austin normally produces about 3.0 inches of rain. This year it joins only February and August to reach its historical monthly average. While the rain has provided surface vegetation with some relief, drought conditions in the Texas Hill Country continue to worsen. We have received 20 inches - 12 inches behind annual average rainfall - from January through November.

Several factors, including climate patterns in the tropical Pacific Ocean, have contributed to lower rainfall totals. ENSO (El Nino/Southern Oscillation, the whole La Niña and El Niño system) has the greatest influence on weather and climate during the Northern Hemisphere cold season. NOAA's Climate Prediction Center (CPC) released its official winter weather outlook on October 20th. Climate scientists forecast that La Niña conditions (declared by NOAA on 10/14/21) are favored to continue through the summer and into the first months of 2023. The continuation of La Niña means that we are predicted to receive drier-than-average and milder-than-average conditions for the southern tier of the country, including Texas.

On December 1, the Lovelady well had a level of 461.3 ft msl, 1.4 ft below the trigger level for Stage 3 drought and about 4 ft above Stage 4 Exceptional drought. Lovelady crossed under the Stage 2 trigger on May 26 and under Stage 3 on October 17.

Also on December 1, Barton Springs was flowing at 26 cfs (10-day average), 12 cfs below the Stage 2 drought trigger point of 38 cfs. The Stage 3 trigger is 20 cfs. Barton Springs crossed under the Stage 2 drought trigger in late June and could cross into Stage 3 in late December or January if we receive no more rain. The USGS and BSEACD staff continue to make discharge measurements to ensure accurate stage-discharge real-time reporting.

# **Drought Communication (David, Erin)**

On October 20, 2022, General Manager Tim Loftus declared Critical Drought (Stage III).

Video Drought Update – Nov. 10, 2022: <a href="https://www.youtube.com/watch?v=Kn1loFuLpts">https://www.youtube.com/watch?v=Kn1loFuLpts</a>

Monthly Drought Update via eNews/social media/website: Communications and Outreach is putting out a monthly drought alert via icontact. It is also shared on the District's social media channels and website.

Monthly Drought Update - Nov. 30, 2022: bit.ly/3iiYnzb

Critical Drought Signage: In October, Communications and Outreach and Regulatory Compliance Team (Erin Swanson and Alyssa Gilbert) put out Critical Drought signage in the District's permittee areas. Some of the District's permittees have also come by to pick up signage. Below is what the District has put up, along with specific permittees who have picked up signs.

# Included in bold is the new signage picked up by permittees in November.

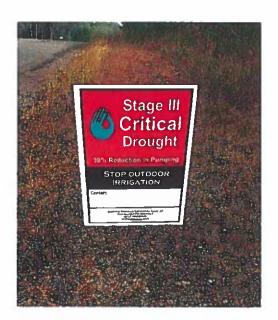
Arroyo Doble H20 – 1 Sign City of Hays PGMS – 4 Signs Ruby Ranch PGMS – 4 Signs Oak Forest PGMS – 4 Signs Mystic Oaks – 4 Signs Forest Oaks MHC – 1 Sign

# Signage Put Out by Staff in October

FM 150/Kyle (Including Rollingwood Neighborhood)
- 8 Signs
Bliss Spillar/FM 1626 - 10 Signs
Wyldewood Neighborhood - 2 Signs
Lowden Lane - 1 Sign
Ranch Road 12 - 10 Signs
Hilliard Road - 10 Signs

# Permittee Signage Pick-Up in October

Arroyo Doble H20 – 2 Signs Mountain City Water Utility – 4 Signs Elliot Ranch PGMS – 4 Signs



# DISTRICT PROJECTS

# **GMA Joint Planning**

# > GMA 10 Coordination (Tim)

The planning group will not meet again in 2022 following the August meeting.

# Trinity Aquifer Sustainable Yield Study & Planning

# > Policy Concepts and Advisory Workgroup Planning (Kendall)

The GM and staff are continuing to research and compile policy concepts related to sustainable yield and unreasonable impacts. Staff will be bringing high level concepts to the Board in December.

# Technical Evaluations (Brian, Jeff)

Aquifer Science staff continue to collect data on the geology and hydrogeology related to the Trinity Aquifers. We are evaluating water-level data for a number of Trinity wells to look for long-term trends and looking closely at impacts from the deepening drought. We are preparing some maps that compare water levels in Middle Trinity wells from average conditions in 2018 to current water levels that are impacted by drought. The in-house model will allow for simulation of different pumping and drought scenarios over time. Several different pumping scenarios have been run and a draft report has been completed. Our next step with the model is to run different drought scenarios, including drought of record. We are members of a technical committee to guide the development of a numerical groundwater model (BRAAT) of the aquifers influenced by the Blanco River. Southwest Research Institute started work on the BRAAT model in September of 2021 but contracting issues stalled development of the model. Modelling efforts restarted in July 2022 after the contracting issues were resolved. A meeting of the technical committee was held on August 22, 2022. Another BRAAT meeting will be held on December 7. A meeting with the District's Technical Advisory Committee (TAC) for the In-house Model (IHM) was held on October 5. The committee consists of 12 professionals with knowledge of the hydrogeology of central Texas and of numerical groundwater models. A one-hour presentation was made to the TAC followed by a one-hour discussion. Some of the committee members have provided written comments of model construction and the results of various modeling scenarios. We are evaluating those comments and will modify the model as appropriate.

# Habitat Conservation Plan (Brian)

Planning for Technical Tasks: Aquifer Science staff are coordinating studies at Barton Springs with COA staff. These studies include measurement of dissolved oxygen (DO) in the Barton Springs pool and the installation of a monitor well within Zilker Park and south of the pool. Deployment of this equipment will take place after the monitor well is installed. We will submit an application for a grant from the City of Austin in January which would pay for the installation of a monitor well in Zilker Park. The purpose of the monitor well is to understand how groundwater flows from the deeper portions of the Edwards Aquifer to the springs and how DO is distributed vertically in the aquifer. The HCP identified low levels of DO as a threat to the endangered salamanders. A potential remedy for low DO during severe drought is augmentation of DO in the shallow aquifer so that the threat of low DO is reduced.

# Database Management System - LRE Water (Tim/Kendall)

The new database project is underway with LRE Water. The Chief Technology Officer, Kelly Close, and Micaela Pedraza, Staff Hydrologist, met with staff on November 16 to continue the work of implementing the first of five project phases.

# ILA Commitments (Brian)

The District has an ILA with COA to coordinate studies for the respective HCPs such as scientific feasibility studies and monitoring evaluations; to collaborate on the planning of future Kent Butler Summits; and to exchange technical information regularly on an annual basis. An annual technical meeting is held between BSEACD and COA in December each year to discuss each organization's activities related to their respective HCPs. The COA and BSEACD plan to have additional discussions in December 2022 to coordinate the details of the DO studies and the monitor well installation near Barton Springs.

# Region K Planning Activities (Tim)

The next meeting is scheduled on January 11, 2023.

# **Strategic Planning Implementation (Tim):**

This project is currently on hold as other projects are being prioritized.

# Training, Presentations, and Conferences (All Teams):

- Aquifer Science: 17<sup>th</sup> Sinkhole Conference, Tampa, Florida, March 27-31, 2023
- Regulatory Compliance: N/A
- Administration: N/A
- Communications and Outreach: N/A
- General Manager: N/A

# New Maps, Publications, or Reports:

A list of recent publications can be found at: https://bseacd.org/scientific-reports/

# LITIGATION AND LEGISLATION

# Litigation and SOAH Activities (Kendall)

There is no activity to report.

# RULEMAKING, PERMITTING, AND ENFORCEMENT

# Rulemaking (Erin, Kendall)

If there is direction from the Board, staff will initiate a narrow rulemaking effort on administrative or procedural changes regarding rules related to the potential for unreasonable impacts (PUI). Staff has had discussions internally and with legal counsel regarding the Enforcement Plan, including drought enforcement. Other areas that are being discussed are notice language and change of ownership timelines. However, the enforcement plan analysis and any rule changes are on a temporary hold so staff can prioritize work on sustainable yield concepts and other preparations that have been suggested by our attorney.

In November, staff gave a presentation to the Board on District rules pertaining to the potential for unreasonable impacts (PUI). Staff provided a debrief on the challenges and lessons learned from applying the rules to large permit applications prior to annexation and discussed administrative considerations such as inadequate fees, staff time, timelines, and public comment process for PUI applications. Staff recommended initiating narrow rulemaking on administrative and procedural changes and will be working on the rule concepts in the coming months.

# Drought (Erin)

- Held pre-enforcement meeting with representatives of Huntington Utility Group on 11/17 to
  further investigate drought curtailment overpumpage in month of October 2023. Determined a
  leak was the cause and have resolved the issue and are expected to be well within compliance
  in November 2023. Will continue monthly pumpage analysis to determine all permittee's
  compliance status of drought curtailments.
- Held pre-enforcement meeting with representatives of Aqua TX, Inc on 11/28 to further investigate drought curtailment overpumpage in month of October 2023. Issue will likely not be resolved in November 2023 based on these discussions.
- Will continue monthly pumpage analysis to determine all permittee's compliance status of drought curtailments.
- Will continue to assist permittees in ensuring they successfully comply with their UDCPs and Stage III drought curtailments for October.

# **Enforcement and Compliance Matters (Erin)**

Compliance/Enforcement				
Permittee or Entity Name	Aquifer	Use Type	Notes	
Bee Cave Drilling	TBD	Abandon	1501 Rabb Road Plugging	

# Permitting Activity (Erin, Alyssa)

Upcoming		1187	100	**
Application Type	Aquifer	Applicant Name	Use Type	Volume Request
LPP	Middle Trinity	Van Zyl, Jean	Domestic	500,000
Exempt - Domestic	Middle Trinity	Cavanaugh, Mandy	Domestic	7GPM - Exemp
In Review				
Application Type	Aquifer	Applicant Name	Use Type	Volume Request
IPP - >2 MIL	Middle Trinity	DC Southfork/Creedmoor	PWS	195,000,000
C00	Edwards	United Properties	Irrigation	150,000
IPP	Middle Trinity	Carpenter Ranch Road, LLC	Commercial/PWS	7.3 million
IPP	Lower Trinity	Carpenter Ranch Road, LLC	Commercial/PWS	7.3 million
LPP	Edwards	Tidblom, Stu	Domestic	500,000
Recently Approved				
Application Type	Aquifer	Applicant Name	Use Type	Volume Request
LPP	Middle Trinity	Pimentel, Sandra	Domestic	500,000
Exempt - Domestic	Middle Trinity	Tucker, Matthew	Domestic	7GPM - Exemp
LPP	Middle Trinity	Knell, Robert and Anne	Domestic	500,000
Exempt - Domestic	Middle Trinity	Zimits, Diedre	Domestic	7GPM - EXEMPT
Plugging	Edwards	AHV Communities	Abandon	0 - Plugging

## AQUIFER STUDIES (Brian)

#### Permitting Hydrogeologic Studies:

Working with Regulatory Compliance on permitting issues as needed. AS staff are reviewing geophysical logs of wells prior to final completion of the wells.

#### Groundwater Studies: Dye Tracing, Water Quality, Aquifer Characterizations

- Coleman's Canyon-Hydraulic conductivity testing was conducted at the Coleman's Canyon
  multiport well in July. We are continuing to collect water-level data from the multiport well
  every month to 6 weeks.
- Remaining TWDB water-quality sampling with isotopes was completed in July.
- There are no dye-trace studies planned at this time because of minimum to no flow in streams and springs.

#### Field Activities:

- Cooperating with USGS and City of Austin staff to confirm accurate real-time gauge reporting at Barton Springs and Lovelady. Conducting bi-weekly to monthly field measurements.
- Updating telemetry monitoring equipment at the Needmore index well (Amos). Reviewing pumping and water-level data as we get deeper into drought.
- Antioch- Continuing to maintain the system and to collect data on flow into the vault (when there is flow). A recent visit to Antioch Cave indicated that gravel-sized rocks are entering one of the valves and potentially limiting the amount of recharge into the cave.
- Well monitoring- Because of drought, we are increasing the amount of time maintaining equipment in numerous monitor wells and downloading and interpreting data.

#### **Trinity Aquifer Modeling Development:**

- BRAAT modeling: Southwest Research Institute started work on this model in September 2021, but activity was on hold as funding issues were resolved. SWRI restarted the project in late July and are continuing to make progress.
- In-house model: The model has been calibrated and we have run the model to evaluate different drought and pumping scenarios. A draft report on the model was completed in May 2022 and a presentation was made to the Board. A meeting with the Technical Advisory Committee was held on October 5 and comments from the TAC are being incorporated into the model.

# COMMUNICATIONS AND OUTREACH (David Marino) November 2022

Website: During the month of November, a number of items were added to the spotlights page, including: District Office Closed Nov. 24 & Nov. 25 in Observance of Thanksgiving, 2023 Summer Aquatic Science Adventure Camp Scholarship Essay/Art Contest – Deadline to Apply is March 22, 2023, Barton Springs and Lovelady Level Check – Nov. 21, 2022, Next Board Meeting - Dec. 8, 2022, Exploring Antioch Cave, Drought Update – Nov. 10, 2022, Barton Springs and Lovelady Level Check – Nov. 9, 2022 BSEACD Newsroom page was also updated with latest press releases, upcoming meetings, videos, etc. <a href="https://bseacd.org/publications/bseacd-newsroom/">https://bseacd.org/publications/bseacd-newsroom/</a>.

Website Analytics 2021			Top Page Searches			
Month	Total Page View s	Unique Page Views	September	October	November	
July	4,327	3891	Homepage 547 Views	Homepage 608 Views	Homepage 495 Views	
August	4,731	4,184	Drought Information 216 Views	Drought Information 504 Views	Drought Status 155 Views	
September	3,375	3,039	Water Conservation 187 Views	Drought-Edu 255 Views	Publications/Maps 111 Views	
October	3,781	3,323	Drought Status 154 Views	Drought Status 223 Views	Drought Information 82 Views	
November	3,144	2,908	Newsletters 154 Views	Publications/Maps 141 Views	Publications/Press Releases 68 Views	

#### **Critical Drought Communications:**

On October 20, 2022, General Manager Tim Loftus declared Critical Drought (Stage III).

Video Drought Update - Nov. 10, 2022: https://www.youtube.com/watch?v=Kn1loFuLpts

Monthly Drought Update via eNews/social media/website: Communications and Outreach is putting out a monthly drought alert via icontact. It is also shared on the District's social media channels and website.

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Critical Drought Signage: In October, Communications and Outreach and Regulatory Compliance Team (Erin Swanson and Alyssa Gilbert) put out Critical Drought signage in the District's permittee areas. Some of the District's permittees have also come by to pick up signage. Below is what the District has put up, along with specific permittees who have picked up signs.

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Hilliard Road – 10 Signs



Arroyo Doble H20 – 2 Signs Mountain City Water Utility – 4 Signs Elliot Ranch PGMS – 4 Signs



Groundwater to the Gulf: Communications and Outreach had a meeting with Katie Bedrich, with the Colorado River Alliance, on Nov. 15, 2022. The District is working with the Colorado River Alliance to plan Groundwater to the Gulf for 2023. Historically, the District has assisted with this program, but there hasn't been a Groundwater to the Gulf event since the pandemic. It appears that they have all the funding they need for this year. The District does have \$500 put aside for Groundwater to the Gulf. We plan to have a meeting with other stakeholders in January 2023.

2023 Aquatic Science Adventure Camp Scholarship Essay/Art Contest: The Barton Springs/Edwards Aquifer Conservation District will offer several scholarships to attend the 2023 Edwards Aquifer Research and Data Center's Aquatic Science Adventure Camp at Texas State University in San Marcos. Communications and Outreach has started promoting the scholarship on social media and the website. Communications and Outreach is working with Kellie Donajkowski, with Edwards Aquifer Research & Date Center, on making sure everything runs smoothly in terms of applicants. This year the District will contribute \$3,000 to the Aquatic Science Scholarship. This is down from last year, due to the fact that we are no longer getting conservation credits.



Scholarships are open to children ages 9 through 16 who reside in one of the eight school districts which overlap the Aquifer District boundary (ELIGIBLE ISD's: Austin, Del Valle, Dripping Springs, Eanes, Hays, Lockhart, San Marcos, & Wimberley). Interested students must submit an application and a one-page essay entitled "Why I want to attend the Aquatic Science Adventure Camp!" Also include a one-page artwork that captures "Science and Outdoor Adventure." As an example, artwork could include a drawing of river rafting, scuba diving, exploring a cave, fishing, or anything related to science and outdoor adventure. Artwork should be done on a separate page from the essay.

Aquatic Scholarship Application Package: <a href="https://bseacd.org/uploads/AQUATIC-SCIENCE-ADVENTURE-CAMP-SCHOLARSHIPS-Application-Packet-FLYER-combined.pdf">https://bseacd.org/uploads/AQUATIC-SCIENCE-ADVENTURE-CAMP-SCHOLARSHIPS-Application-Packet-FLYER-combined.pdf</a>

#### Kent S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest:

Communications and Outreach will begin promoting the Kent S. Butler Scholarship in December 2022.

**Drought Blog Updated:** The drought monitor blog on our website needed an update. Communications and Outreach worked with Justin Camp to review new formats. The updated blog can be viewed here: <a href="https://bseacdblogs.blogspot.com/">https://bseacdblogs.blogspot.com/</a>

Regional Water Quality Planning Group Meeting: Communications and Outreach is no longer coordinating and setting up these meetings. For now, Christy Muse has taken over the responsibility of running the Regional Water Quality Planning Group Meetings, now that Craig Smith has stepped off the board. The next meeting will be sometime in January. At that time a new chairman or chairwoman will be chosen.

**Drought Information Website Page:** Throughout the month of November the drought information has been updated with the latest graphs and drought information. <a href="https://bseacd.org/regulatory/droughtinformation/">https://bseacd.org/regulatory/droughtinformation/</a>.

Ethics Policy Review: Communications and Outreach, General Manager Tim Loftus, and the District's HR firm have been reviewing ethics policies and evaluating what may need to be updated. Ultimately, any changes would go before the board.

TAGD Media Relations Cheat Sheet: Communications and Outreach Manager is on TAGD's Information & Education Committee. We are assisting TAGD in creating a communications toolkit for groundwater districts. This document will serve as a guide for employees in Texas groundwater districts and how to oversee communications for a variety of platforms and it also addresses how to communicate during specific situations. Communications and Outreach Manager finished the Media Relations Cheat Sheet as part of the plan. It is now under review.

#### Media Articles:

MileStone Development Raises Environmental Concerns – Nov. 2, 2022 – Hays Free Press https://haysfreepress.com/2022/11/02/milestone-development-raises-environmental-concerns/

TESPA Takes Legal Action Against Rock Quarry – Nov. 16, 2022 – Hays Free Press https://haysfreepress.com/2022/11/16/tespa-takes-legal-action-against-rock-quarry/

Hays Council Denies MUD – Nov. 22, 2022 – Hays Free Press https://haysfreepress.com/2022/11/22/hays-council-denies-mud/

Is Austin Getting a Surf Park? - Nov. 3, 2022 - KXAN

https://www.kxan.com/news/local/austin/is-austin-getting-a-surf-park-what-we-know-about-the-surf-lakes-project/

City eyes major upgrades, parking garages for Zilker Park – Nov. 21, 2022 – Austin Monitor <a href="https://www.austinmonitor.com/stories/2022/11/city-eyes-major-upgrades-parking-garages-for-zilker-park/">https://www.austinmonitor.com/stories/2022/11/city-eyes-major-upgrades-parking-garages-for-zilker-park/</a>

Barton Springs Bridge in Need of Mayor Rehabilitation, Here is What is Coming Next – Nov. 10, 2022 – KXAN

https://www.kxan.com/news/local/barton-springs-bridge-in-need-of-major-rehabilitation-here-is-what-is-coming-next/

Austin Eyes Replacement of Barton Springs Road Bridge – Nov. 16, 2022 – Community Impact <a href="https://communityimpact.com/austin/central-austin/transportation/2022/11/16/austin-eyes-replacement-of-barton-springs-road-bridge/">https://communityimpact.com/austin/central-austin/transportation/2022/11/16/austin-eyes-replacement-of-barton-springs-road-bridge/</a>

#### Videos:

Drought Update - Nov. 10, 2022

https://www.youtube.com/watch?v=Kn1loFuLpts

**Exploring Antioch Cave** 

https://www.youtube.com/watch?v=16SK5ha6s-0

2023 Summer Aquatic Science Adventure Camp Scholarship Essay/Art Contest <a href="https://www.youtube.com/watch?v=EY9kH7BcIWM">https://www.youtube.com/watch?v=EY9kH7BcIWM</a>

Happy Thanksgiving

https://www.youtube.com/watch?v=boegg-YtpBk

Science in 60 Seconds – Edwards Aquifer Limestone https://www.youtube.com/watch?v=BgWPrmBpi 8

#### Press Releases:

2023 Aquatic Science Adventure Camp Scholarship Essay/Art Contest – Deadline to Apply is March 22, 2023

https://bseacd.org/uploads/AQUATIC-SCIENCE-ADVENTURE-CAMP-SCHOLARSHIPS-Application-Packet-FLYER-combined.pdf

Social Media (Twitter, Facebook, Instagram, Nextdoor): Water Weekly Report – Nov. 28, 2022, Drought Update – Nov. 30, 2022, Aquatic Science Adventure Camp Scholarships, Downhole Camera Photos, Happy Thanksgiving, Aquatic Science Adventure Camp Scholarships Submissions Open, National Weather Service Forecast – Nov. 23, 2022, Thanksgiving Holiday

Closure – Nov. 24 & Nov 25, Barton Springs and Lovelady Level Check – Nov. 21, 2022, Setting Salamander Traps, Water Weekly Report – Nov. 16, 2022, Water Wise Wednesday, Rain Picture, Happy Veterans Day, Exploring Antioch Cave, Drought Update – Nov. 10, 2022, Barton Springs and Lovelady Level Check – Nov. 9, 2022, Veterans Day Holiday – Nov. 11, 2022, Monitor Well-Field Visits Photos, Next Regular Board Meeting – Nov. 10, 2022, Don't Forget to Fallback, National Weather Service Forecast – Nov. 3, 2022, Throwback Thursday – Onion Creek Whirlpool, Science in 60 Seconds – Edwards Aquifer Limestone, Water Weekly Report – Nov. 1, 2022.

#### BSEACD Monthly Social Media Roundup/Groundwater News

Social Media Roundup (November 2022):

https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-November-2022.pdf

Monthly Groundwater News/Dates of Interest (November 2022):

https://bseacd.org/uploads/BSEACD-Monthly-Groundwater-News-Dates-of-Interest-November-2022.pdf

The top performing post on Facebook for the month of November was "Aquatic Science Adventure Camp". It reached 651 people. The top tweet on Twitter for the month of November was "BSEACD will offer several scholarships to attend the 2023 Edwards Aquifer Research and Data Center's Aquatic Science Summer Camp". It had 89 impressions and 2 engagements. The top performing video on YouTube for the month of November was "Drought Update – Nov. 10, 2022" with 133 views. The top performing post on Nextdoor for the month of November was "Barton Springs and Lovelady Level Check – Nov. 9, 2022". It had 5,440 Impressions.

#### GENERAL ADMINISTRATION

(November 5, 2022 – December 1, 2022)

#### Accounts Receivable/Permittee Cycle Billings

On December 16, January monthly billings will go out for \$23,060.

#### Annual Report and Appendix B

The 2022 versions of these reports will be presented to the Board in December. The annual financial audit report is Appendix A of our Annual Report, and the Management Plan's Assessment of Progress Toward Management Goals and Objectives is Appendix B of the Annual Report. (This is being presented at this Board Meeting.)

#### Annual Financial Audit - Began on October 3, 2022

The annual financial audit has begun and will last through the end of the audit process in December when the report is presented to the Board by the auditor. Included in the audit is a section that is written by District-administration called the **Management Discussion and Analysis (MD&A)** which is a narrative that provides an overview and summary-level analysis of the significant activities and situations that have financial reporting significance.

#### Audit - Payroll - Annual Texas Municipal League (TML) Workers' Compensation Insurance

Ther is an annual payroll audit through Dylong and Associates for our TML Workers' Compensation Insurance, as they require. This audit is based on our insurance policy timeline rather than our fiscal year. This audit reconciles quarterly taxes paid to gross payroll, and requires explanation of any and all differences from the previous year's numbers. Final submission on November 15. Final report received back on November 29.

#### **Director Bonds**

Board has approved, and director bonds have been issued.

#### **Drought Management Fees (DMFs)**

Tracking monthly DMFs began in October (for September pumpage).

Six November assessments for October pumpage/DMF for \$1,600 (running total is \$2350.) Texas Old Town, Huntington, Elliott Ranch, Creedmoor, Cook Walden, and Bliss Spillar.

#### Financial Reporting - Website Transparency Section (Texas Comptroller's Office)

Transparency Star-related: Most current, available financial reports are to be posted on our website and accessible within three clicks, as required by the Texas Comptroller of Public Accounts Transparency Star Program. Balance Sheets, Profit and Loss Statements, and Check Registers (Operating and Payroll) through October 2022 has been posted on the District website.

The Administration Team typically has repetitive monthly tasks e.g. monthly bank reconciliations, monthly adjusting journal entries, accounts payable, payroll, contract/grant/project tracking, office maintenance and repairs, budget monitoring, bi-weekly payroll journal updates, directors' compensation, pre-paids, DMFs, posting public meetings, preparing meeting backups, etc. These types of tasks are not listed in this report because they are repetitive. Administration status reports are generally more summarized than the other teams, as we list our extra-ordinary tasks outside of our routine tasks, while supporting all other teams.

## Item 5

### **Staff Presentation**

- a. Presentation by the District's financial auditor on the FY 2022 Annual Financial Audit Report.
- b. Presentation by Staff on policy-related topics concerning unreasonable impacts and/or sustainable use of the Trinity Aquifer(s).

### Item 6

### **Board Discussions and Possible Action**

a. Discussion and possible action related to the receipt and approval of the FY 2022 Annual Financial Audit report provided by the District's financial auditor.

## Item 6

## **Board Discussions and Possible Actions**

b. Discussion and possible action on approving the FY 2022 Annual Report including Appendix B.



## **DRAFT**

## ANNUAL REPORT FISCAL YEAR 2022

(To be Board-approved on December 8, 2022)

## **BOARD OF DIRECTORS (August 31, 2022)**

Blayne Stansberry, President	Precinct 2	November 2014 - November 2026
Craig Smith, Vice President	Precinct 5	May 1998 - November 2022
Lily Lucas, Director	Precinct 3	December 2021 - November 2024
Dan Pickens, Director	Precinct 1	November 2020 - November 2024
Christy Williams, Secretary	Precinct 4	November 2020 - November 2024

#### **DISTRICT STAFF**

### August 31, 2022

**General Management Team** 

Timothy Loftus, Ph.D. General Manager

**Administration Team** 

Dana Wilson Senior Administrative Manager/Team Leader

Tammy Raymond Senior Administrative Coordinator

Aquifer Science Team

Brian Smith, Ph.D., P.G. Principal Hydrogeologist/Team Leader

Jeff Watson, P.G. Hydrogeologist

Justin Camp Hydrogeologist Technician

**Communications and Outreach Team** 

David Marino Communications and Outreach Manager

**Regulatory Compliance Team** 

Erin Swanson Regulatory Compliance Manager/Team Leader

Kendall Bell-Enders Senior Policy and Project Manager

Alyssa Gilbert Regulatory Compliance Specialist

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#### 1.0 BACKGROUND

The Barton Springs/Edwards Aquifer Conservation District (District) Bylaws require the District Board President or the District General Manager to report on the status of the District and its programs annually to the Board and to the Texas Commission on Environmental Quality (TCEQ). This document is the Annual Report for Fiscal Year 2022, covering the period from September 1, 2021 to August 31, 2022.

According to District Bylaw 4-6, this report shall include:

- The status of the aquifer and the District's programs,
- A financial report to include the report of the annual audit and the security of any District investments,
- A review and evaluation of professional services rendered to the District.
- A status report of any capital projects of the District, and
- The evaluation of the District's long-range plans pursuant to §36.107 (now §36.1071) of the Texas Water Code (TWC).

This introductory section provides an overview of the District, and summarizes the mission and vision of the District and its Board-established critical success factors. Other major report sections that follow include a summary of the active programs in FY 2022; a recap of other specific information required by statute, including an assessment of performance in terms of objectives and performance standards identified in the prevailing Management Plan (MP); and a financial summary. The annual audit report conducted by an independent audit firm is included in its entirety as Appendix A. The Board's assessment of progress toward the MP's objectives by performance standards and the basis for that assessment are included as Appendix B.

#### 1.1 General Information About the District

The District was created in 1987 by the 70<sup>th</sup> Texas Legislature, under Senate Bill 988. Its statutory authorities include Chapter 52 (later revised to Chapter 36) of the TWC, applicable to all groundwater conservation districts (GCDs) in the state, and the District's enabling legislation, now codified as Chapter 8802, Special District Local Laws Code (SDLLC). The District's legislative mandate is to conserve, protect, and enhance the groundwater resources located within the District boundaries. The District has the power and authority to undertake various studies, assess fees on groundwater pumpage and transport, and to implement structural facilities and non-structural programs to achieve its statutory mandate. The District has rulemaking authority to implement its policies and procedures and to help ensure the management of groundwater resources. The District is not a taxing authority. Its only sources of income are groundwater production fees, including a water use fee supplement paid by the City of Austin (CoA); administrative processing fees; and occasional grants from various local, state, and federal programs for special projects.

Upon creation in 1987, the District's jurisdictional area encompassed approximately 255 square miles and was generally defined to include all the area within the Barton Springs segment of the Edwards Aquifer with an extended area to the east to incorporate the service areas of the Creedmoor-Maha Water Supply Corporation (WSC), Goforth Special Utility District (SUD), and Monarch Utilities. In this area, designated as the "Exclusive Territory," the District has authority over all groundwater resources. In 2015, the 84<sup>th</sup> Texas Legislature House Bill 3405 expanded the District's jurisdictional area to include the portion of Hays County located within the boundaries of the Edwards Aquifer Authority (EAA) excluding the overlapping area in the Plum Creek Conservation District (see Figure 1). The newly annexed area designated as "Shared Territory," excludes the Edwards Aquifer and includes all other aquifers, including the underlying Trinity. The District serves southern Travis County, central and eastern Hays County, and portions of northwestern Caldwell County. The District's jurisdictional area including the Shared Territory encompasses approximately 420 square miles and includes both urban and rural areas.

Water from the Barton Springs segment of the Edwards Aquifer serves as the primary water source for public water supply, industrial, and commercial purposes in the District, and is a major source of high-quality base flow to the Colorado River via discharge through the Barton Springs complex. The Barton Springs complex provides the only known habitat for the listed endangered Barton Springs and Austin blind salamanders under the federal Endangered Species Act (ESA), requiring all activities that would or could adversely affect the species to represent optimal conservation efforts. The Trinity Aquifer, underlying the Edwards, is an important primary water resource in some parts of the District and is increasingly being developed as an alternative water supply to the oversubscribed Edwards Aquifer in both the Exclusive and Shared Territories. Some wells in the District also produce water from the Taylor and Austin Chalk formations as well as various alluvial deposits along river and stream banks.

A five-member Board of Directors (Board) governs the District. The Directors are elected in even-numbered years to staggered four-year terms from the five single-member precincts that comprise the District. As a result of legislation in 2011 and subsequent Board action in late FY 2011, director elections were moved from the May local elections date to the November general elections date.

There was a vacant position on the Board of Directors due to a resignation from the director in Precinct 3. Lily Lucas was appointed by the Board to fill that vacancy in December 2021.

Three director precincts (precincts 2, 3, and 5) were up for a possible election during FY 2022 for the November 8, 2022 election (FY 2023). Two directors were unopposed, and the third resigned and a new director took his place with no opposition. Since there was no opposition for any of the three directors, the election was cancelled.

In accordance with District Bylaws, the Board elects its officers for one-year terms in December of each year. At the time of this report, this has not yet taken place. The elected officers in December 2021 were Blayne Stansberry, President; Craig Smith, Vice President; and Christy Williams, Secretary. As a local political subdivision of the State of Texas, all meetings of the Board are conducted in accordance with the Open Meetings Act, and the District's business is subject to the Texas Public Information Act.

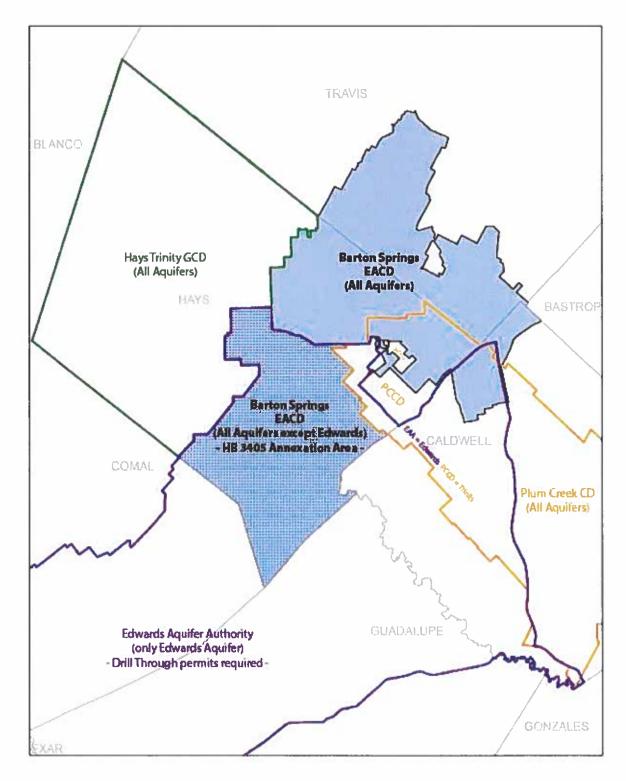


Figure 1 - The District's territory including the expanded Shared Territory and the adjacent Groundwater Conservation Districts and their respective jurisdiction over aquifers.

#### 1.2 District Mission and Vision Statements

The District Board has assessed and articulated not only the mission of the District but also its vision and overarching strategic purpose.

The mission of the District is largely mandated by and adapted from its enabling legislation and statutes:

"The Barton Springs/Edwards Aquifer Conservation District, as the responsible public agency and authority, is committed to conserving, protecting, recharging, and preventing waste of groundwater and to preserving all aquifers within the District."

The vision of the District provides a succinct statement of the ultimate, continuing goal of the District, describing the standard by which it will execute its mission:

"The Barton Springs/Edwards Aquifer Conservation District will excel in its operations and administration so that it is considered the model and standard for other groundwater districts."

The overarching strategic purpose articulates more action-oriented direction consistent with the mission and vision:

"We will manage the District aquifers to optimize the sustainable uses of groundwater in satisfying community interests."

#### 1.3 District Critical Success Factors

The District has established a set of continuing "critical success factors" that flow from and are generally consistent with the goals and objectives of the MP. These critical success factors include:

- Providing sound science to support and form the basis of policy and tactical decisions made by the District that affect water supply users and endangered species habitats;
- Being highly efficient, accurate, and fair in administering staff activities related to all District programs;
- Developing and instituting an equitable and consistently administered regulatory program that is required to serve our mission;
- Becoming a respected and effective part of the state and local political landscape for water resource management and its stakeholder communities;
- Serving our permittees, stakeholders, and the public at large as a readily accessible source of first resort for reliable information about local water, groundwater, aquifer science, water use and conservation; and
- Providing the programmatic and resource basis for innovative, cost-effective solutions to augment the sustainable quantity of water in the District and to protect the quality of District waters required for various existing uses.

## 2.0 DISTRICT PROGRAM AREAS AND TEAM HIGHLIGHTS FOR FY 2021

The District continues to successfully use a team-oriented organizational structure in which all staff members are assigned to a primary team but also support other teams as needs arise. Each staff member works under the direct supervision and directly reports to their respective team leaders who are responsible for executing team-specific responsibilities and duties. Each team leader works under the supervision of and directly reports to the General Manager (GM). All staff members ultimately report to the GM for administrative supervisory purposes.

This section of the report summarizes the operational teams that existed throughout FY 2022, and provides some highlights and notable achievements for each. Appendix B contains more information and details on the work undertaken by these teams in support of the various goals, objectives, and performance standards identified in the applicable 2017 District MP.

#### 2.1 General Management Team

Vanessa Escobar resigned as the District's GM on September 3, 2021. The GM position remained vacant until filled on January 24, 2022 by Dr. Timothy T. Loftus. The GM also serves as the District's Chief Operating Officer and is responsible for the day-to-day business of the District. In addition to managing a staff of nine people, the GM is an *ex-officio* member of all the other teams. The key areas of functional responsibilities for the GM include ensuring staff performance and development, programmatic planning and execution, stakeholder relationship development and cultivation, and financial administration of the District. The GM:

- Ensures that the policies and direction of the Board are implemented effectively, appropriately, and efficiently;
- Provides leadership both inside and outside the District organization in accomplishing the mission, vision, and goals of the District; and
- Serves as an advocate for the staff with the Board, and an advocate for the Board with the staff.

#### In FY 2022, some highlights for the office of the GM:

- Covid 19 In February 2022, the GM began to update a near-two-year-old Office Health Protocol and Guidance policy for staff. A new policy was issued March 14, 2022 that addressed all relevant areas of office operations. The updated policy gave rise to a need to update the Telecommuting policy. A new Telecommuting policy was included among other changes to the Employee Policy Manual that became effective on April 14, 2022. These policies have worked well as staff has readily accepted and adapted to them.
- Cybersecurity Policy HB 3834 passed amending the Government Code to require the establishment of state verified cybersecurity training programs. The District established internal policy guidance on the requirements for board and staff cybersecurity training. Each year the District must verify and report the employee completion of the training, and periodically audit to ensure compliance. The Administration Team keeps certification records and receipt of submission to the Texas Department of Information Resources (DIR). In the spring of 2022, board and staff completed the training. The training certificates are maintained by the Administration Team.
- Legislative Session During FY 2022, the Texas Legislature was not in session. The GM and Board President strategized with SledgeLaw Group on matters that could be addressed in the 88<sup>th</sup> Legislative Session that would convene during FY 2023.

- Regional and Joint Planning The Regulatory Compliance Team Leader attended as the District Representative to Groundwater Management Area (GMA) 10 and continued in his role as the chairman of GMA 10, including related interactions with the Texas Water Development Board (TWDB). This year, discussions at meetings included desired future conditions (DFCs) monitoring activities, and discussions on adopting and approving GMA 10's 2022 DFCs. The Regulatory Compliance Team Leader actively participated in regional water planning group activities and meetings which included presentations and discussions on the water management strategies, updates to non-Modeled Available Groundwater availability, and finalizing the 2022 water plans. The GM became involved in the Joint Planning process during the summer of 2022 and attended one meeting in August.
- Redistricting The District revised Director Precincts in accordance with state and federal law. A public
  hearing was held at the March 10, 2022 Board of Directors meeting and the revised Director precinct
  boundaries were adopted.
- Trinity Sustainable Yield Study and Planning In FY 2022, it became apparent that the in-house modeling effort needed to reach a first phase end point in order to inform the sustainable yield planning process. The Aquifer Science team presented their preliminary results at the June 9, 2022 Board meeting. Any stakeholder process would have to follow the final results of this first phase modeling effort. It was expected that the Aquifer Science team would return to the Board with first-phase-final results in the fall.
- Litigation The District was not involved in any litigation matters during FY 2022.

#### 2.1.1 Board and Staff Training, and Open Meetings Act:

There were no Open Meetings Act violations in FY 2022.

A summary of training for board and staff included: Cybersecurity Training, 2021 National Habitat Conservation Plan Coalition Annual Meeting – October 2021, GeoGulf Annual Conference – October 2021, Hydrogeo Workshop, NWGA Groundwater Summit – November 2021, National Cave and Karst Management Symposium – November 2021, Texas Water Resource Network (UT Environmental Sciences Institute) – December 2021, GMDA Conference – Jan. 2022, TAGD Boot Camp/Business Meeting – February 2022, TCEQ Information Meeting – March 2022, TAGD Business Meeting – April 2022, TELEA Training – April 2022, HydroGeo Workshop – Dye Tracing Presentation – April 2022, EAA Research Center/Education and Outreach Center Visit – May 2022, UT Jackson School of Geosciences Hydrogeological Field Trip – May 2022, PYTHON Groundwater Modelers Webinar – June 2022, Barton Springs Workshop – August 2022, TAGD Annual Summit/Conference – August 2022, Region K Meetings 2021/2022, AIPG Edwards Aquifer Workshop – August 2022.

#### 2.2 Administration Team

Ms. Dana Wilson, Senior Administrative Manager, and the Administrative Team Leader, and Ms. Tammy Raymond, Senior Administrative Coordinator, are the team members for administrative programs support.

The Administration team is responsible for banking, accounting, timekeeping and payroll administration, records retention and management, facilities and vehicle fleet management, personnel and human resources administration, contracts administration, director compensation and reimbursement administration, and state/federal grant administration.

#### In FY 2022, some highlights for the Administration Team included:

- Board and staff maintained their financial resources in a manner that maximizes liquidity while
  maintaining the greatest return on District fund balances by investing in securities or investment pools
  that operate in low risk investments and are backed by the state and/or federal government.
- Contracted for and participated in the independent annual financial audit, including the provision of all financial records, and preparation of the Management Discussion and Analysis. Year-end reports are submitted to the TCEQ and the State Pension Review Board, as required by law.
- Maintained District financial records to receive a clean financial audit in December 2022 (Appendix A).
- Developed and monitored the District annual budgets. In FY 2022, there were two versions. The initial budget was brought before the Board in a public hearing held on July 8, 2021 where it was approved. The Board approved a budget revision on October 14, 2021.
- Administrative staff is responsible for proper maintenance, management, retention, and disposition of all
  District records; inventory of District property (asset management); and capital depreciation.
  Administration preserved and protected all public documents in accordance with state and federal laws,
  the adopted District Records Retention Schedule, and with the Texas State Library regulations; and
  maintained the District's reference material library.
- Assisted the District's information technology (IT) consultant in making improvements to the IT
  infrastructure to standardize productivity tools and improved security, and resolving various staff IT
  issues.
- Continued monthly District transparency efforts, specifically in the area of finance (on the District's website Transparency tab), since achieving a Financial Transparency Star Award from the Texas Comptroller's office in FY 2017.

#### 2.3 Aquifer Science Team

Dr. Brian Smith, P.G., Principal Hydrogeologist, serves as the leader of the Aquifer Science Team which is involved in various internally- and externally-funded groundwater research and assessment programs. The team is supported by Jeff Watson, P.G., Staff Hydrogeologist; Justin Camp, Hydrogeologic Technician; and from time-to-time other staff members, including interns.

To protect and manage the groundwater resources of the District's aquifers, the District continued an active research program that is designed to better understand the hydrogeology and hydrodynamics of aquifers in the District, and to advise the Board on policy-related decisions.

In FY 2022, the Aquifer Science Team worked on many projects, developed new technical reports and memos, presented technical talks, published technical papers, and attended technical conferences including:

- Brian Smith and Jeff Watson attended the Texas Alliance of Groundwater Districts (TAGD) Groundwater Summit (August 30-September 1, 2022).
- Brian Smith and Jeff Watson virtually attended a technical stakeholder meeting covering the kickoff of component B of the Blanco River Aquifer Assessment Tool (BRAAT) model development process (August 22, 2022).
- Brian Smith attended the National Cave and Karst Management Symposium in San Marcos from November 1 through November 5, 2021.
- Jeff Watson and Brian Smith attended several virtual training sessions with GSI on groundwater modeling.

Presented technical information and studies to the public and students:

- Brian Smith served on a panel to discuss aquifer storage and recovery (ASR) at the TAGD Summit in San Antonio (September 2, 2021).
- Jeff Watson gave a presentation to the Hays County Master Naturalists at Jacob's Well Spring Natural Area on the Hydrogeology of the Trinity Aquifer and Associated Springs (August 28, 2021).
- Jeff Watson and Justin Camp demonstrated stream gauging at the 7<sup>th</sup> Annual Texas Hydro-Geo Workshop (April 1-3, 2022).
- Brian Smith gave a presentation on Dye Tracer Testing in Karst at the 7th Annual Texas Hydro-Geo Workshop (April 1-3, 2022).
- Aquifer Science staff led a field trip to Borheim/Stoneledge Quarry and Antioch cave for TWDB and Austin Water employees (May 7, 2021).
- Brian Smith gave a presentation and guided a field trip to Barton Springs for the Texas Chapter of the American Institute for Professional Geologists (August 5, 2022).
- Aquifer Science staff led a field trip to Antioch Cave for the Austin Chapter of the American Water Works Association (October 29, 2021).
- Jeff Watson gave a presentation on central Texas hydrogeology to the Travis County Audubon Society (April 10, 2022).
- Brian Smith participated in a field trip to the Jacob's Well area for the UT-Austin Hydro Field Camp (May 31, 2022).
- Justin Camp and Jeff Watson gave a presentation on Trinity Aquifer hydrogeology at a community meeting in Rolling Oaks (August 6, 2022).

#### In FY 2022, other highlights for the Aquifer Science Team included:

- Maintained a monitor well network of about 44 wells with instruments that collect hourly data. The
  District's HOBO weather station at the District office also collects hourly data and reports to an online
  dashboard accessible on the District website.
- The District routinely measures water levels in the seven multiport monitor wells that are completed in the Edwards and Trinity Aquifers.
- Determined and documented drought status, including keeping the District's drought monitor blog up to date
- Worked cooperatively with the City of Buda for test design and data collection during their aquifer storage and recovery (ASR) pilot project testing.
- Maintained the Antioch Cave Recharge Enhancement Project as required by the District's Management Plan and HCP permit. Staff entered and surveyed the cave on November 9, 2022 to evaluate conditions and quantify sediment accumulation in the cave passage.
- Implemented an annual sampling program in cooperation with Magellan Pipeline Company related to
  the operation of the Longhorn Pipeline that transports crude oil through the District. In May 2022, staff
  sampled about eight springs and well sites for hydrocarbon contaminants as a screening test for BTEX
  and TPH.
- Staff worked cooperatively with Hays County and Wimberley Valley Watershed Association to drill and
  install two new dedicated monitoring wells in the vicinity of Jacob's Well and wrote a report
  summarizing data collection efforts and preliminary findings from drilling operations.
- Collected water-quality data (major ions and isotopes) from about 13 sample locations in FY 2022 in cooperation with the TWDB.
- Held the annual meeting between CoA and District staff to discuss the status of their respective Habitat Conservation Plan (HCP) projects (December 6, 2021).
- District staff hosted the annual HCP Management Advisory Committee (MAC) meeting on to discuss the accomplishments of the District's HCP projects (January 6, 2022).
- Collected water-quality data (major ions) from the City of Austin Nature and Science Center well during above average flow conditions at Barton Springs for the HCP (Interlocal Agreement (ILA) (February 8, 2022).

#### **Published Papers and District Documents:**

- Watson, J. A., Smith, B.A., and J. Camp, 2022, Preliminary Results and Insights from the BSEACD Inhouse Trinity Model: BSEACD Technical Memo 2022-0520 draft report.
- Smith, B.A., Watson, J.A., and J. Camp, 2022, Preliminary Report on the Installation of Two Multilevel Monitor Wells Near Jacob's Well: BSEACD Technical Memo 2022-0831, 80 p.
- Watson, J.A., 2022, Review of Copper Hills Well No. 5 Tier 1 Hydrogeologic Report: BSEACD Memo to File, Jul 23, 2021, 3 p.

#### 2.4 Communications and Outreach Team

Mr. David Marino serves as the Communications and Outreach Manager and is the sole team member of the Communications and Outreach Team. Under the Communications and Outreach Team, increased communication with the public is the main priority, with the goal of educating a broader audience on the roles and responsibilities of the District. Because GCDs are complex in nature, ranging from regulatory responsibilities, aquifer science, alternative water supplies, well components, and various other projects, breaking down this information in a clear, consumable manner for the public serves both as an opportunity and a challenge.

#### **Job Postings/Hiring Committees**

The Communications and Outreach Team has taken over job posting responsibilities. Job postings are shared on various job boards/social media channels including: District Social Media Channels (YouTube, LinkedIn, Facebook, Instagram, Twitter), the District Website, Indeed, TAGD, Texas Municipal League (TML), Workforce Solutions Rural Capital Area, Save Barton Creek Association (SBCA), Texas Water Foundation, Water Environment Association of Texas, and The Meadow Center for Water and the Environment.

General Manager Hiring Committee: The Communications and Outreach Team led the GM hiring Committee. The GM posting went up on August 13, 2021, and closed on October 22, 2021. Ms. Vanessa Escobar, the former GM, accepted a position with another organization in September 2021. The GM Hiring Committee was comprised of Craig Smith, Dan Pickens, David Marino, Michael Redman, and Brian Smith. Communications and Outreach collected all the resumes for this position. The hiring committee narrowed down five top candidates for the first round of interviews. Board and staff members on the hiring committee did separate zoom interviews with the top five candidates for the first round of interviews. The interviews wrapped up on October 28, 2021. A score card system was created by the Communications and Outreach Team, with the assistance of the hiring committee. The committee then narrowed down the top two candidates by using the score card system. Collectively, the hiring committee narrowed down the top two candidates based on several factors, including:

- Board Management Experience
- Management/Administrative Experience
- Groundwater Policy Knowledge
- Strategic Planning Experience
- Leadership Experience
- Communication Skills
- Budget Management
- Technical Background

At a Special Called Board of Directors Meeting on December 2, 2021, the top two candidates were required to present a Power Point presentation for the board in executive session. During the board meeting on January 13, 2022, Tim Loftus was announced as the District's new GM.

Regulatory Compliance Specialist Hiring Committee: The Communications and Outreach Team posted the Regulatory Compliance Specialist vacancy in June 2022. Communications and Outreach collected all resumes for this position and coordinated interviews with Regulatory Compliance Manager Erin Swanson. Communication and Outreach Manager David Marino served on the Regulatory Compliance Specialist Hiring Committee with Erin Swanson and GM Tim Loftus. All interviews were conducted in July and the committee narrowed it down to two candidates. Alyssa Gilbert was offered the position. She accepted and started in August 2022.

#### Social Media

The Communications and Outreach Team continued to build engagement across the District's social media channels in FY 2022. The District's audience has grown across all social media platforms. The table below shows the growth from September 2021 to August 2022.

Social Media Channels FY 2022	August 2022	September 2021
Twitter Followers <a href="https://twitter.com/BSEACD">https://twitter.com/BSEACD</a>	768 Likes	698 Likes
Facebook Likes/Followers  https://www.facebook.com/BSEACD	1,555 Followers	961 Followers
Instagram <a href="https://www.instagram.com/bseacd/">https://www.instagram.com/bseacd/</a>	104 Followers	10 Followers
YouTube <a href="https://www.youtube.com/channel/UCqiQlZ7y708Ar0yPB2Yd4Cg">https://www.youtube.com/channel/UCqiQlZ7y708Ar0yPB2Yd4Cg</a>	20 Subscribers	16 Subscribers



In August 2022, the District created a Nextdoor channel. Nextdoor allows us to reach out individual neighborhoods within our District. This provides another tool for the District to use for its communication outreach efforts. In a short time, the District's Nextdoor channel has reached thousands of people. We will continue to utilize this important communication tool in FY 2023.

#### **Social Media Posts:**

Communications and Outreach Team shares videos, educational information. scholarship information, drought-related news, and other groundwater-related topics on the District's various social media channels. The reports below reflect the posts shared each month from September 2021 to August 2022.

September 2021 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-September-2021.pdf
October 2021 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-October-2021.pdf
November 2021 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-November-2021.pdf
December 2021 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-December-2021.pdf
January 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-January-2022.pdf
February 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-March-2022.pdf
March 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-April-2022.pdf
April 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-May-2022.pdf
June 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-June-2022.pdf
July 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-June-2022.pdf
August 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-July-2022.pdf
August 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-July-2022.pdf

#### **BSEACD** Website

The Communications and Outreach Team makes most of the changes to the website. However, for more elaborate changes the team works with our contracted website manager, Brian Zavala. Communications and Outreach added the following new pages to the website in FY 2022:

Career Opportunities <a href="https://bseacd.org/careeropportunities/">https://bseacd.org/careeropportunities/</a>

Election Information https://bseacd.org/about-us/election-information/

Drought Information Resources https://bseacd.org/regulatory/droughtinformation/

Request for Qualifications https://bseacd.org/transparency/rfqs-request-for-qualifications/

Other changes include a "meetings" tab at the top of the home page, and larger United States Geological Survey (USGS) graphics on the "Drought Status" (https://bseacd.org/aquifer-science/drought-status/) page.

The table below shows the total number of page views and unique page views on the District website for FY 2022. Website views are up from FY 2021.

September 2021 – August 2022	Website Views FY 2022	Website Views FY 2021
Total Page Views	43,710	39,335
Unique Page Views (people who have never visited our site)	37,903	32,123

The District's homepage, publications/maps, and education/scholarships pages typically have the highest views each month.

#### The Aquifer Zone Newsletter



The Aquifer Zone Newsletter is released quarterly. The newsletter has continued to evolve with additional videos and a message from the GM.

Communications and Outreach sends the newsletter to subscribers and shares all the District's communication

channels, including the website and social media. The table below is a snapshot of the number of people the newsletter was sent to, along with the percentage of opens and clicks.

Aquifer Zone Newsletter	Sent to	Opens	Clicks
Fall 2021 Edition https://bit.ly/3WGzHAi	2.5K	26.0%	12.7%
Winter 2022 Edition https://bit.ly/3qYrn17	2.4K	28.5%	9.1%
Spring 2022 Edition https://bit.ly/3OfkCBT	2.4K	15.5%	14.3%
Summer 2022 Edition https://bit.ly/3om196u	2.3K	27.6%	10.2%

#### **Press Releases**

During FY 2022, the District put out about a dozen press releases. These are sent to the media, shared with subscribers through eNews, posted on the District's website, and shared on the District's social media channels.

Community Meeting on Drought-Related Topics – July 15, 2022 https://bseacd.org/uploads/Community-Meeting-On-Drought-Related-Topics.pdf

BSEACD Awards Kent S. Butler Memorial Groundwater Stewardships Scholarships – June 10, 2022 <a href="https://bseacd.org/uploads/BSEACD-Awards-Kent-S.-Butler-Memorial-Groundwater-Stewardship-">https://bseacd.org/uploads/BSEACD-Awards-Kent-S.-Butler-Memorial-Groundwater-Stewardship-</a>

Aquifer District Declares Stage II Alarm Drought – June 9, 2022 <a href="https://bseacd.org/uploads/Aquifer-District-Declares-Stage-II-Alarm-Drought.pdf">https://bseacd.org/uploads/Aquifer-District-Declares-Stage-II-Alarm-Drought.pdf</a>

BSEACD Awards Aquatic Science Adventure Camp Scholarships – April 18, 2022 <a href="https://bseacd.org/uploads/BSEACD-Awards-Aquatic-Science-Adventure-Camp-Scholarships-.pdf">https://bseacd.org/uploads/BSEACD-Awards-Aquatic-Science-Adventure-Camp-Scholarships-.pdf</a>

Board of Directors Adopts New Director Precinct Boundaries – March 16, 2022 <a href="https://bseacd.org/uploads/District-Board-of-Directors-Adopts-New-Director-Precinct-Boundaries.pdf">https://bseacd.org/uploads/District-Board-of-Directors-Adopts-New-Director-Precinct-Boundaries.pdf</a>

2022 Water Well Checkup – Feb. 9, 2022 https://bseacd.org/uploads/2022-Well-Water-Checkup.pdf

BSEACD Board of Directors names Tim Loftus General Manager – Jan. 20, 2022 <a href="https://bseacd.org/uploads/BSEACD-Board-of-Directors-Names-Tim-Loftus-General-Manager.pdf">https://bseacd.org/uploads/BSEACD-Board-of-Directors-Names-Tim-Loftus-General-Manager.pdf</a>

2022 Aquatic Science Adventure Camp Application and Rules – Dec. 29, 2021 <a href="https://bseacd.org/uploads/Aquatic-Science-Adventure-Camp-Application-Form-with-Texas-State-Flyer-FINAL.pdf">https://bseacd.org/uploads/Aquatic-Science-Adventure-Camp-Application-Form-with-Texas-State-Flyer-FINAL.pdf</a>

BSEACD Board Appoints Interim Director for Precinct 3 – Nov. 22, 2021 https://bseacd.org/uploads/BSEACD-Board-Appoints-Interim-Director-for-Precinct-3-Unexpired-Term-1-

#### **Drought Outreach**

On June 9, 2022, the Board declared Alarm Drought (Stage II). To reach more permittees and a wider audience, Communications and Outreach Team began putting out a monthly drought update. The first report went out on July 20, 2022.

Drought Update – July 20, 2022 - https://bit.ly/3PHv5pr Drought Update – August 25, 2022 - https://bit.ly/3elxFUV

Drought Information Website Page: Communications and Outreach launched Drought Information Website page to assist with drought outreach efforts. The page contains the following information:

- District Drought Status
- Rainfall Hydrograph
- Edwards Aquifer Conditions (Barton Springs Segment)
- Trinity Aguifer Conditions
- Austin/San Antonio Drought Monitor
- Frequently Asked Questions
- Helpful Links

#### Alarm Drought (Stage II) Signage in Permittee Areas:

FM 1626 – 10 signs (Austin)

FM 150 (including Rollingwood Neighborhood) – 7 signs

Wildwood Neighborhood (Austin) - 3 Signs

Hays Hills Baptist Church = 3 signs

PGMS - 7 signs

City of Mountain City - 4 signs

Sunfield Neighborhood in Buda – 4 signs

St. Marks Episcopal Church – 3 signs

Buda/Kyle Church of Christ = 3 signs

Byron Townsend – 3 Signs (Byron covers Cimarron Park, Slaughter Creek Acres, and Village San Leanna)

San Marcos

Ranch Road - 12 signs

Hilliard Area - 10 signs

#### Media Coverage

The District received substantial media coverage in FY 2022. In particular, the media focused on the District's Stage II Alarm Drought Declaration. All the news stories and their links are included below.

Public Notice: A Drop in the Aquifer

https://www.austinchronicle.com/news/2022-09-02/public-notice-a-drop-in-the-aquifer/

Austin loses advocate for the environment and people

https://www.austinmonitor.com/stories/2022/08/austin-loses-advocate-for-the-environment-and-people/

Is Stage 3 Critical Drought on the Horizon for Hays County?

https://haysfreepress.com/2022/08/17/is-a-stage-3-critical-drought-on-the-horizon-for-hays-county/

Aquifer District declares Stage II Alarm Drought – June 10, 2022 – Hays Free Press https://haysfreepress.com/2022/06/10/aquifer-district-declares-stage-ii-alarm-drought-2/

Potentially Hottest June on Record – June 24, 2022 – Austin American-Statesman <a href="https://bseacd.org/uploads/Hottest-June-on-Record.pdf">https://bseacd.org/uploads/Hottest-June-on-Record.pdf</a>

BSEACD Aquifer District Declares Stage II Alarm Drought – June 17, 2022 – San Marcos Corridor News https://smcorridornews.com/bseacd-aquifer-district-declares-stage-ii-alarm-drought/

Quarry Air Permit Approved, TESPA Files Suit - May 19, 2022 – Wimberley View https://www.wimberleyview.com/news/quarry-air-permit-approved-tespa-files-suit

TESPA takes action to halt rock crushing plant – May 18, 2022 – Hays Free Press <a href="https://haysfreepress.com/2022/05/18/tespa-takes-action-to-halt-rock-crushing-plant/">https://haysfreepress.com/2022/05/18/tespa-takes-action-to-halt-rock-crushing-plant/</a>

Experts discuss possibility for drought in Texas this season https://www.fox7austin.com/video/1057518

BSEACD Awards Aquatic Science Adventure Camp Scholarships

https://haysfreepress.com/2022/04/20/bseacd-awards-aquatic-science-adventure-camp-scholarships/

Quarry May Be Built On Needmore Ranch – The Wimberley View – March 17, 2022 <a href="https://www.wimberleyview.com/news/quarry-may-be-built-needmore-ranch">https://www.wimberleyview.com/news/quarry-may-be-built-needmore-ranch</a>

Water Flowing Under Buda Homes for 11 Years – KXAN – February 27, 2022 <a href="https://www.kxan.com/investigations/somebody-messed-up-water-flowing-under-buda-homes-for-11-years/?fbclid=IwAR0ZcSbOzAZHyAP3ETAmmOk8RHAXNNigBMs-l-IgnjjG540UgeqVkVlsa28">https://www.kxan.com/investigations/somebody-messed-up-water-flowing-under-buda-homes-for-11-years/?fbclid=IwAR0ZcSbOzAZHyAP3ETAmmOk8RHAXNNigBMs-l-IgnjjG540UgeqVkVlsa28</a>

BSEACD Hires New General Manager https://www.wimberleyview.com/news/bseacd-hires-new-general-manager

Dewatering solutions discussed for Buda subdivision – January 17, 2022 – Hays Free Press https://haysfreepress.com/2022/01/17/dewatering-solutions-discussed-for-buda-subdivision/

Report: Future of groundwater pumping in Texas unsustainable—November 22, 2021 – San Antonio Express-News

https://www.expressnews.com/news/local/article/Texas-groundwater-16642092.php

Hopes float away as homeowners deal with swampy foundations – November 17, 2021 – Hays Free Press https://haysfreepress.com/2021/11/17/hopes-float-away-as-homeowners-deal-with-swampy-foundations/

BSEACD Appoints Interim Director for Precinct 3 – The Wimberley View – November 18, 2021 <a href="https://www.wimberleyview.com/news/bseacd-appoints-interim-director-precinct-3">https://www.wimberleyview.com/news/bseacd-appoints-interim-director-precinct-3</a>

#### **Videos**

Communications and Outreach has continued its focus on building the District's video presence. Videos drive engagement on social media and even on websites. Videos are shared on the District's YouTube channel, the District's social media channels, and the website. Communications and Outreach has put together videos on various topics, including drought, dye tracing, and more. Included below are all the videos completed in FY 2022.

District YouTube channel: <a href="https://www.youtube.com/channel/UCqiQlZ7y708Ar0yPB2Yd4Cg">https://www.youtube.com/channel/UCqiQlZ7y708Ar0yPB2Yd4Cg</a>).

Drought Update - August 17, 2022 https://www.youtube.com/watch?v=WGiQ4-aAIWs&t=5s

Community Meeting - August 6, 2022 https://www.youtubc.com/watch?v=vbwewZIdMYI&t=199s

Slug Testing Video Explainer https://www.youtube.com/watch?v=93JRkFneiSg&t=2s

Perspective on the Current Drought – July 27, 2022 https://www.youtube.com/watch?v=bTFhaKvB-ns

Drought Update/Well Monitoring-July 26, 2022 <a href="https://www.youtube.com/watch?v=HpLznZZ7QYE&t="https://www.youtub

The Aquifer Zone Newsletter – July 22, 2022 https://www.youtube.com/watch?v=d2e3sOjY4oA

Kent S. Butler Scholarship Winners 2022 https://www.youtube.com/watch?v=v0hryBJONb4

Aquifer District Declares Stage II Drought https://www.youtube.com/watch?v=wJ5KiCpog2c&t=78s

Multiport Monitor Well - Water Sample Collection <a href="https://www.youtube.com/watch?v=hhoZBmt2bas">https://www.youtube.com/watch?v=hhoZBmt2bas</a>

Monitor Well Installation Part 2 <a href="https://www.youtube.com/watch?v=54xpKKo0ipg&t=107s">https://www.youtube.com/watch?v=54xpKKo0ipg&t=107s</a>

Happy Teacher's Day – May 3, 2022 https://www.youtube.com/watch?v=Kvp-wOY6pOE

Administrative Professionals Day – April 27, 2022 <a href="https://www.youtube.com/watch?v=Q8yClJ8PjZU">https://www.youtube.com/watch?v=Q8yClJ8PjZU</a>

Well Inspection – Regulatory Compliance Team <a href="https://www.youtube.com/watch?v=IU-YoOIq8ZE&t=36s">https://www.youtube.com/watch?v=IU-YoOIq8ZE&t=36s</a>

Aquatic Science Camp Scholarship Winners https://www.youtube.com/watch?v=GOf7PzfZzOU&t=64s

Multiport Monitor Well Installation https://www.youtube.com/watch?v=yDQw4H1ZahY&t=6s

Dye Tracing Study https://www.youtube.com/watch?v=TZ-S7kRT7oM&t=69s

National Groundwater Awareness Week https://www.youtube.com/watch?v=28psb6Rvox8

Well Water Check Up-Sampling Instructions <a href="https://www.youtube.com/watch?v=wpHxfqvAT60&t=1s">https://www.youtube.com/watch?v=wpHxfqvAT60&t=1s</a>

The Aquifer Zone Newsletter – January 2022 https://www.youtube.com/watch?v=c8xjNhiQOfk

What is Aquifer Testing? https://www.youtube.com/watch?v=k6-0V2GfMUY&t=ls

Kent S. Butler Scholarship Groundwater Essay Contest https://www.youtube.com/watch?v=jNNujM27VBo

Martin Luther King Jr. Day https://www.youtube.com/watch?v=5O2jwrKMZBE Drought Update – Jan. 14, 2022 https://www.youtube.com/watch?v=4us MGXWY3c&t=1s Jacobs Well - Throwback Thursday https://www.youtube.com/watch?v=wurjRyWnJp4&t=1s Edwards Aquifer Recharge https://www.youtube.com/watch?v=ZOKph1R-0EY&t=18s Edwards Aquifer Signs – Why Should You Care? https://www.youtube.com/watch?v=NL04fyqGelo How to Check the District's Drought Status <a href="https://www.youtube.com/watch?v=7aU4mBFfKgM">https://www.youtube.com/watch?v=7aU4mBFfKgM</a> Do I live in the District? https://www.youtube.com/watch?v=jQ0XN4AhRgM&t=1s Drought Update - Nov. 18, 2021 https://www.youtube.com/watch?v=ciBfVUoKZJU&t=33s Streamflow Measurement: Raw Video https://www.youtube.com/watch?v=i J3xFOWWTE&t=1s Science in 60 Seconds: Streamflow Measurement https://www.youtube.com/watch?v=Ogl6WVSo9kg&t= Happy November <a href="https://www.youtube.com/watch?v=SJgaTDloSuU">https://www.youtube.com/watch?v=SJgaTDloSuU</a> Throwback Thursday – What is dye tracing? https://www.youtube.com/watch?v=zRSfztjW1Qo The Aquifer Zone Newsletter - Fall 2021 https://www.youtube.com/watch?v=JrzmzyDyIg8 Onion Creek at Twin Creeks Road - October 14, 2021 https://www.youtube.com/watch?v=MLiG0QmuZ-g Slaughter Creek at Manchaca - October 14, 2021 https://www.youtubc.com/watch?v=OOmAsA3OFM4 National Fossil Day – October 13, 2021 <a href="https://www.youtube.com/watch?v=5PKJe9hkECI">https://www.youtube.com/watch?v=5PKJe9hkECI</a> Science in 60 Seconds: Downhole Video Cameras https://www.youtube.com/watch?v=SELZvhmLhlo Trinity Downhole Camera https://www.youtube.com/watch?v=LNNBMSOs0Jk New BSEACD Instagram Channel https://www.youtube.com/watch?v=wGSF\_aGBmfg Collect Rocks Day – September 16, 2021 https://www.youtube.com/watch?v=xbDimo1buwM Science in 60 Seconds: Water Conductivity <a href="https://www.youtube.com/watch?v=ul3iPXVpZ2o">https://www.youtube.com/watch?v=ul3iPXVpZ2o</a> Aquifer Status Update - September 9, 2021 https://www.youtube.com/watch?v=nHAMyrU7th4 Protect Your Groundwater Day-September 7, 2021 https://www.youtube.com/watch?v=ojqVHSz5exM&t=54s BSEACD Weather Station https://www.youtube.com/watch?v=7y\_vlAvWs0s&t=1s

#### Programming/Events/Collaborations

Protect Your Groundwater Day: September 7, 2021. Communications and Outreach put together a video with Aquifer Science Principal Hydrogeologist, regarding how the District protects groundwater.

MyPoint.TV: MyPoint.TV is a new online news company in Austin that uses public and eyewitness reporting to give everyone the opportunity to publish stories that matter to them. The District has an account and shares videos from time to time on their site. They don't have a huge reach, but this is another tool that gives the District access to a broader audience and allows to educate more than just in the District's jurisdiction on aquifer/water related issues. This is a continued collaboration from FY 2021.

Explorers Guide to the Hill Country Oasis: The District sponsored Save Barton Creek SBCA's Explorers Guide to the Hill Country Oasis. The District budgeted \$1,000 for the sponsorship.

Imagine a Day Without Water: October 21, 2021. Communications and Outreach shared several posts highlighting staff, the District's mission, and other facts around groundwater.

2022 Summer Aquatic Science Adventure Camp Scholarship Essay/Art Contest: The District offered scholarships (overnight and day camp options) to attend the 2022 Edwards Aquifer Research and Data Center's Aquatic Science Adventure Camp at Texas State University (TSU) in San Marcos. The Aquatic Camp returned after being canceled for two years due to Covid. Scholarships were awarded to ten students. Total camp scholarship funding was \$6,360.

2022 Kent S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest: The District conducted its annual Kent. S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest. Three high school scholarship winners were selected. Total scholarship funding was \$4,500.

TAGD Information and Education Committee: Communications and Outreach Manager is part of TAGD's Information and Education Committee. As part of the committee, Communications and Outreach reviewed sections of the communications toolkit that is being worked on. This included reviewing the newsletter guide, advocacy checklist, open meetings guide, introduction to communications channels, and how to use the toolkit. Communications and Outreach also assisted TAGD with creating a media relations cheat sheet. The document serves as a guide for employees in Texas GCDs on how to handle communications for a variety of platforms. It also addresses how to communicate during specific situations.

National Cave and Karst Management Symposium 2021: Communications and Outreach attended in San Marcos from November 1 to November 5. This included setting up a table at the symposium.

Water Well Checkup: The District teamed up with Texas A&M Agrilife Extension and Texas Well Owner Network to provide Water Well Checkups for District well owners. The cost of the water analysis was covered by the District for the first fifty well owners to pick up a water kit. The samples were taken to Luling for analysis. Results were physically mailed and emailed to well owners.

Water Week Owners Educational Event: Communications and Outreach and Regulatory Compliance Team Leader, spoke at this event educating the audience on the District. This took place at Luling Foundation Headquarters in Luling on March 3, 2022.

Buda Trash-Off: The District sponsored the City of Buda's Trash-Off in April 2022. People gathered to pick up trash around Buda for the event. Communications and Outreach set up an informational table at the event.

BUDA ASR Article for Fall 2021 Newsletter: Communications and Outreach worked with City of Buda Water Resources Coordinator on a City of Buda ASR article for the District newsletter. Communications and Outreach also worked with the City of Buda Communications Department.

City of Sunset Valley Public Works Open House: Communications and Outreach was invited to take part in this open house. The District set up an informational table and Communications and Outreach answered resident questions.

Caves, Mud, and Water Event: Communications and Outreach volunteered at the Caves, Mud, and Outreach event at the Wildflower Center on June 30, 2022. This is put on by the Austin Watershed Protection Department, Park Rangers, and Wildland Conservation Division.

UT Jackson School of Geosciences Hydrogeological Field Trip: Students with the UT Jackson School of Geosciences visited Jacob's Well and the District's new multiport monitor well in Wimberley. Communications and Outreach took photos and shared on social media.

TWDB Monitor Well Visit/Video Shoot: The TWDB came out on May 12, 2022, to shoot a video on a second monitor well installation near Jacob's Well. The District collaborated with TWDB on the shoot, and they interviewed Aquifer Science Principal Hydrogeologist. The video was shared on the District's social media channels and in the newsletter.

EAA Research Center/Education and Outreach Center Visit: Staff went on a retreat to the EAA Research Center and visited the new Education Outreach Center. Communications and Outreach took photos and shared information about the visit on the District's social media channels.

Regional Water Quality Planning Group Meeting: Communications and Outreach began coordinating the monthly Regional Water Quality Planning Group Meetings. The meetings take place the last Friday of every month. The group is comprised of stakeholders from various organizations focused on protecting water here in Central Texas.

Community Meeting – Rolling Oaks Neighborhood: The District held a community meeting in the Rolling Oaks Neighborhood on August 6, 2022. The meeting focused on the current drought, along with a question-and-answer session for those in attendance. Director Dan Pickens and staff attended. Communications and Outreach set up an informational table and signed up those in attendance for the District's newsletter/press releases. The meeting was recorded and shared on the District's social media channels and website.

The District has a collaborative relationship with the following organizations and plans to collaborate more with municipalities like the City of Buda, City of Kyle, and City of San Marcos: Austin Youth River Watch, Austin Nature and Science Center, Central Texas Water Efficiency Network (CTWEN), Texas Master Naturalists (Capitol area and Hays County), Capitol Area Council of Governments, Cave Sim Children in Nature Collaborative of Austin, CoA Wildlands, CoA Watershed Protection, CoA Parks and Recreation, City of Sunset Valley, Colorado River Alliance, EAA, Expedition School, Texas State Edwards Aquifer Research and Data Center, Girl Scouts, Greater Edwards Aquifer Alliance, Hays County and Hays County Parks, Hays Trinity Groundwater Conservation District (HTGCD), Hill Country Alliance, Hill Country Conservancy, Jacobs Well Natural Area, Keep Austin Beautiful, Lady Bird Johnson Wildflower Center, Lower Colorado River Authority, Natural Bridge Caverns, Texas State Meadows Center, Travis County, SBCA, Shield Ranch and El Ranchito, Southwest Travis County GCD, Splash! Exhibit, Texas Cave Management Association, Texas Parks, and Wildlife Department (TPWD), Texas River School, TWDB, UT's Bureau of Economic Geology, UT Jackson School of Geosciences, and Westcave Outdoor Discovery Center.

#### In FY 2022, highlights for the Communications and Outreach Team included:

- Communications and Outreach Manager continues to serve on TAGD's Information and Education Committee. As part of the committee, Communications and Outreach reviewed sections of the communications toolkit that is being worked on.
- Communications and Outreach led the GM Hiring Committee. The team also collaborated with Regulatory Compliance Manager on Regulatory Compliance Specialist search, and served on hiring committee.
- Created District Nextdoor Channel.
- Created four new website pages including Career Opportunities, Election Information, Drought Information Resources, and Request for Qualifications.
- Website views increased in FY 2022 for both visitors and unique visitors.
- Social media followers increased across all District channels in FY 2022.
- Resumed Well Check-Up program for permittees in collaboration with Texas A&M Agrilife Extension and Texas Well Owner Network.
- Drought communication was enhanced with a new website page and monthly drought updates.
- Resumed Aquatic Science Adventure Camp Scholarship Essay/Art Contest with Edwards Aquifer Research and Data Center at Texas State University in San Marcos. Scholarships were awarded to ten students. Scholarship funding totaled \$6,360.
- Awarded three scholarships for the 2022 Kent S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest. Scholarship funding totaled \$4,500.
- Took part in City of Sunset Valley Public Works Open House for the first time.
- Increased the amount of District videos created in FY 2022. Forty-five videos were created, up from thirty-eight in FY 2021.
- Co-Sponsored City of Buda's Annual Trash-Off for the first time.
- Co-Sponsored TAGD's Water Summit Conference.
- Attended TAGD Bootcamp.
- Spoke about the District at Water Week Owners Education Event at Luling Foundation Headquarters.
- Volunteered at Cave, Mud, and Water Event put on by the Austin Watershed Protection Department, Park Rangers, and Wildland Conservation Division.

#### 2.5 Regulatory Compliance Team

The Regulatory Compliance Team consists of two Regulatory Compliance Coordinators and one Regulatory Compliance Specialist who are responsible for a wide range of District responsibilities including drought management, pumpage tracking/compliance assessment, rulemaking, rule and well construction standard interpretation, permitting, enforcement, well inspections, well pluggings, and drilling oversight. Erin Swanson serves as the Regulatory Compliance Manager; with Kendall Bell-Enders, Senior Regulatory Policy Manager; and Alyssa Gilbert, Regulatory Compliance Specialist, completing the team. Regulatory Compliance Team members have also actively attended and participated in community outreach and regional development and planning groups, and served as District liaisons to local municipalities, political subdivisions, permittees, and licensed drillers and pump installers in the area.

#### In FY 2022, some highlights of the Regulatory Compliance Team included:

- Development Activities Over Recharge & Contributing Zones The District continues to monitor for proposed Texas Pollutant Discharge Elimination System (TPDES) permits in the contributing and recharge zones of the Barton Springs segment of the Edwards Aquifer. The District continues to track legislation regarding wastewater discharges in the Edwards Aquifer Contributing Zone. In April 2022, staff provided comments to the Texas Sunset Advisory Commission on TCEQ's Wastewater Permitting Program. The District commented that in many cases TCEQ's existing wastewater regulations and effluent standards are inadequate to protect the receiving stream uses and groundwater.
- EP Applications In July 2017, EP submitted a Production Permit application, a Hydrogeologic Report, and seven Well Modification applications. Staff reviewed the applications and all supporting documents, and requested additional information from the applicant. Through a comprehensive review, the District determined that the proposed production had the potential to cause unreasonable impacts to existing wells. In February 2018, the District provided EP with notice of the GM's Preliminary Finding on the Production Permit application. The applicant was granted a 90-day extension to the application review period to provide additional application requirements and/or options such as a Compliance Monitoring Plan and Mitigation Plan. After extensive review of the additional submitted plans, the District determined the application administratively complete and issued a GM's Statement of Position (draft permit) on May 21, 2018. On June 18, 2018, staff held a public information session on the draft permit for EP at the Wimberley Community Center. During the 20-day comment period, the District received 12 requests for a contested case hearing and 312 comment letters on the application. In July 2018, the Board referred the permit application to State Office of Administrative Hearings (SOAH) to conduct the contested case hearing. A SOAH preliminary hearing was held on September 17, 2018 to determine standing.

The original dates for the hearing on the merits of the application were scheduled for late spring 2019. After an attempted mediation in March 2019, stakeholder discussions, and additional staff research, staff continued to move forward with improvements and revisions to the 2018 draft permit and issued a May 2019 Revised Draft Permit. The hearing on the merits was then rescheduled for September 19-27, 2019.

On September 25, 2019, the Protestants filed a Motion for Summary Disposition that asked the Administrative Law Judges (ALJs) to dismiss EP's application on the basis that (1) the phase-in of production volumes should not be permitted without notice and an opportunity for a hearing, and (2) the application is not supported by reasonable non-speculative demand. EP requested and the ALJs granted a schedule abatement because the properties for which EP seeks a production permit are subject to a condemnation proceeding by the Permian Highway Pipeline (PHP). In August of 2020, EP and Kinder Morgan finalized the terms and conditions for a settlement, and the abatement ended. SOAH issued a new schedule for hearing and EP filed a supplemental prefiled testimony. The hearing on the merits was scheduled for April 2021.

On February 4, 2021, EP filed for a nonsuit, dismissal, and remand in SOAH Docket No. 457-18-4589. This sent EP's application back to the District and canceled the SOAH proceedings. On March 9, 2021, staff returned EP's application back to EP due to the District considering EP's withdrawal from SOAH as a withdrawal of the application. On March 11, 2021, EP declared that the application was not withdrawn and that the application was waiting for a Board hearing.

EP voluntarily dissolved their Domestic Limited Liability Company (LLC) on October 25, 2021; therefore, the production permit application is no longer active. However, staff began working with the current landowners (Bridges and Odell) and the Texas Department of Licensing (TDLR) to finalize well modifications for the seven wells associated with the project.

- DFC Planning Staff actively collaborated in DFC planning discussions with neighboring GCDs, GMA 9 and GMA 10 representatives, and TWDB staff. District staff served as GMA 10 chair for the majority of FY 2022 (until Michael Redman resigned in June 2022). In that role, he guided the discussions and planning activities for GMA 10 with the primary focus being on development of an explanatory report and adoption of the DFCs. GMA 10 passed and approved a resolution adopting the DFCs in October 2021. In lieu of GMA 10 hiring a consultant, District staff took the lead on coordinating a significant planning effort to review technical reports and to update the content of the explanatory report that was submitted to TWDB in December 2021. GMA 10 began to prepare for the next DFC planning cycle, including drafting an RFQ to hire a consultant for the next round.
- <u>Trinity Sustainable Yield</u> Due to a transition period between GMs, staff paused the advisory group planning effort with the facilitator (Community Consulting). However, staff continued to research and compile technical and policy concepts related to sustainable yield and unreasonable impacts in an effort to determine what additional data, tools, and information that may be still needed. Staff met multiple times in FY 2022 to discuss concepts related to the Trinity Sustainable Yield Project.
- <u>Habitat Conservation Plan</u> On December 6, 2021, staff held the annual HCP ILA meeting with the CoA. The District and the CoA agreed to collaborate and coordinate on routine and planned communication and activities including flow/aquifer level measurements and monitoring, and regional issues.
  - Regulatory Compliance staff assisted in drafting the first U.S. Fish and Wildlife Service (USFWS) HCP Annual Report. Staff also held the third annual Management Advisory Committee (MAC) meeting since the issuance of the HCP on January 26th to provide an overview of the annual report and to solicit feedback. The annual report was submitted to USFWS on February 16, 2022.
- Management Plan Per statutory requirements, staff and programmatic teams actively worked towards implementing the goals and objectives of the MP. In November 2017, the Board adopted the updated MP, and in January 2018, the TWDB approved the plan that was in effect during FY 2022. Staff began work to update the MP for the next 5-year cycle and submitted an updated draft to the TWDB for a prereview during the summer of 2022. Following one or more pre-reviews, the next 5-year plan must be approved by the Board in the fall and in the hands of the TWDB for final approval in November 2022.
- Database Development and Upgrade At the beginning of FY 2022, staff finalized all database workflows and mockups and sent them to Intera in November 2021. Intera reviewed the information and documentation in attempt to assess the amount of time and resources needed to complete the database. The new GM and Intera leadership corresponded over several months on how to proceed. Intera offered to partner with Epic Engineering and Consulting, headquartered in Florida, to help finish the database project. Staff met with Epic and Intera in July 2022 to discuss their proposal. Epic proposed to use their proprietary database application, Simplify i3, and customize it to meet the District's needs per the original scope of work. Their proposal included a relatively high annual hosting and maintenance fee. In August, the GM decided to issue a Request for Qualifications (RFQ) to consider other database developers in the event that the Board may not support the new proposal. LRE Water submitted a Statement of Interest and Qualifications (SOQ) on August 12, 2022.

- External Communication and Coordination Work groups and projects involving staff participation included:
  - Edwards Aquifer recharge and contributing zone development activity coordination
  - o Regular meetings of the Regional Water Quality Protection Plan workgroup
  - TDLR Well Construction Standards
  - o TAGD Legislative Subcommittees
  - TWCA Groundwater Subcommittee
  - o GMA 10
  - o BRATWURST Technical Committee
- Implementation and Compliance of Existing Rules Staff reviews permit compliance of each permittee, and monitors existing wells for compliance with the Rules, and Well Construction Standards. Through required meter readings reports, performing regular inspections of wells, and reviewing pumpage compliance at regular intervals, staff is able to ensure that permitted wells and well systems are operated as intended. Staff also maintains an open dialogue with permittees when compliance matters arise, and facilitate solutions through pre-enforcement discussions.
  - Inspections and Investigations During FY 2022, staff conducted a number of inspections relating to the processing of permit applications. Staff completed a total of 13 inspections related to special investigations, site permittee inspections, and well permit applications. Staff collected three water quality samples during routine permit inspections or from new well construction inspections. There were no formal enforcement actions initiated in FY 2022.

Barton Springs Pool Plume Event – An event occurred between December 18 - 20, 2018, where three separate, discrete, and visible discharges of turbidity from Barton Springs into Barton Springs Pool were observed. CoA staff worked with District staff to identify the likely source of turbidity as sediment produced from the drilling of boreholes for a geothermal system in the Barton Hills area about ¾ of mile (4,000 ft) SSW from Barton Springs. Once the source was identified, the CoA and the District worked together to develop additional drilling protocols within proximity to Barton Springs to minimize future turbidity plumes related to drilling activities.

In FY 2022, staff continued coordination with CoA staff to ensure drilling protocols developed in FY 2019 for the Risk Management Zone were followed to minimize future turbidity plumes related to drilling activities.

A summary of the inspections, investigations, and site visits conducted in FY 2022 is provided below.

Inspections/ Investigations/ Visits	FY 2021	FY 2022
Exempt Well Inspections	0	0
Limited Production Permit Inspections	5	3
Individual Production Permit Inspections	3	2
Test Well Inspections	0	0
Plugging Inspections	2	1
Special Investigation Inspections	5	1
Other Permittee Meetings/Visits *	0	6
*Multiple meetings were held with some permittees.		
TOTA	L 15	13

Meter Reporting - Monthly meter readings were collected from all individual permittees each month with the large majority reported in a timely manner. Permittees failing to submit timely reports were provided with notices of the District's intent to collect meter readings. Most delinquent permittees were generally responsive once the notice was received. Meter readings not received after the notice was provided were collected, and a fee was assessed, in accordance with the Rules.

The annual meter reading requirement for all Limited Production Permits (LPPs) were due in September 2022. Email correspondence and notifications were provided to the nonexempt domestic users in an effort to ensure compliance; however, approximately 25% did not timely submit a meter reading.

- User Drought Contingency Plans, and User Conservation Plans (UDCPs and UCPs) In FY 2019, staff worked with interns to update 136 permit records in order to incorporate updated drought planning documents into their records. According to the District MP, all permittees must update their UDCP and UCP plans at least every five years. Therefore, since all UDCPs were updated in FY 2019, staff did not update them in FY 2022.
- Right Sizing and Alternative Sources After notice and an opportunity for a hearing, the Board may renew a permit with a reduced amount of the authorized production if the authorized withdrawal volume is no longer commensurate with reasonable non-speculative demand, or actual production from a well is substantially less than the authorized permit amount for multiple years without any rationale that reasonably relates to efforts to utilize alternative water supplies, conserve, or improve water use efficiency. Staff typically conducts an overpumpage analysis every few years and conducted the analysis in FY 2019, therefore staff did not conduct an overpumpage analysis in FY 2022.

The District has been actively encouraging alternative source projects to reduce the dependency on the aquifers during drought. Staff has collaborated with water suppliers on ASR projects in providing regulatory and technical guidance. Staff has been working with the City of Buda on ASR feasibility. The Ruby Ranch ASR project was approved and has been in operation since the summer of FY 2021. Staff also assisted in assessing the feasibility of Lower Trinity Aquifer for water supply.

- Orought Compliance The District implements a drought management program that requires mandatory monthly pumpage curtailments during District-declared drought stages. The District declared Stage II Alarm Drought on June 9, 2022 and remained in Stage II drought through the end of FY 2022. The District has implemented all drought-related rules and curtailments in accordance with the District's enforcement plan and drought management protocols. Drought enforcement measures were assessed for Stage II Alarm Drought for the entire duration of the drought during FY 2022. A monthly drought compliance report for all individual permittees was provided during the month of August 2022 to the Board during District-declared drought, and that report can be found on the drought management website pages.
- <u>Well Registration</u> Staff processed and reviewed all well registrations, permit renewals, and applications for permits, permit amendments, and authorizations in accordance with the Rules, Well Construction Standards, and other District guidelines in accordance with specified procedural timeframes. All newly drilled or modified exempt and nonexempt wells were automatically registered at the time of application and were in compliance with District Rules, including Well Construction Standards.

During FY 2022, the District continued with an online registration system to receive well registration applications from well owners. The online registration system was implemented in June 2015 in response to recent annexation efforts associated with the passage of HB 3405. Staff received and processed two registration forms in FY 2022.

O Application Reviews - To ensure that all firm-yield production permits are evaluated with consideration given to the District's demand-based and non-speculative permitting standards, staff completed comprehensive administrative and technical reviews of permit application requests. A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments including approved use types and commensurate permit volumes for production permits and amendments, is provided below.

A summary of the new wells drilled in FY 2022 is provided in the table below.

New Wells Drilled	FY 20	FY 21	FY 22
New Exempt Wells	2	7	5
Limited Production Permits (Nonexempt Domestic Wells)		11	8
Individual Wells	4	2	1
Test Wells	0	0	0
Replacement Wells	0	0	0
TOTAL	13	20	14

A summary of the processed permit applications in FY 2022 is provided in the table below.

Processed Permit Applications	FY20	FY21	FY22
Minor Amendment	3	4	5
Major Amendments	0	0	0
New Exempt Well	2	9	11
Limited Production Permit (Nonexempt Domestic Wells)	9	15	10
Individual Production Permit	5	1	4
Individual Well Drilling Authorizations or Well Modification	2	1	0
Test Well	0	0	0
Well Plugging	6	5	9
Replacement Well	0	0	0
TOTAL	28	35	39

A summary of the individual production permits processed in FY 2022 is provided in the table below.

	Annual	Production Permits			
	Volume (gpy)	Processed	Permit Type	Use Type	Aquifer
1	300,000	Confido, LLC	Class A Conditional	Commercial	Edwards
		17050 S IH-35 Frontage			
2	130,500	Road, LLC	Class A Conditional	Commercial	Edwards
3	1,834,560	Goebler Properties, Inc.	Class A Conditional	Commercial	Edwards
					Middle
4	943,500	Texas Legacy Masters, LLC	Historic	Commercial	Trinity

#### 2.5.1 Permit Summary:

A summary of the active individual production permits to date in FY 2022 is provided in the table below.

Active Individual Permits	FY 20	FY 21	FY 22
Conditional A Edwards	22	22	26
Conditional B Edwards	2	2	2
Conditional C Edwards	5	5	5
Conditional D Edwards	2	2	2
Historical Edwards	74	74	74
Historical Trinity	33	34	34
Historical Chalk or Alluvial		2	2
Transport Permits	2	2	2
Total	142	143	146

A summary of the active general permits to date in FY 2022 is provided in the table below.

Active General Permits	FY 20	FY 21	FY 22
Limited Production Permits (LPP)	164	175	183
Test Permits	0	0	0
Monitoring Permits	0	0	0
Total	164	175	183

#### 2.5.2 Production Summary and Exempt Estimates:

Staff monitors annual withdrawals from all nonexempt wells through required monthly or annual meter reports to ensure that groundwater is used as efficiently as possible for beneficial use. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each Management Zone is provided below.

A summary of the permitted production volumes for each Management Zone is provided below.

FY 2022 Permitted Pumpage by Management Zone			
Edwards MZs	Gallons	cfs	acre-feet
Historical (Individual)	2,310,552,596	9.8	7,091
Historical (LPP)	2,500,000	0.011	8
Total Historical	2,313,052,596	9.81	7,092
Conditional (Individual)	355,929,508	1.51	1,092
Conditional (LPP)	59,500,000	0.25	183
Total Conditional	415,429,508	1.76	1,273
Total Edwards	2,728,482,104 gal	11.57	8,365

Trinity MZs	Gallons	cfs	acre-feet
Historical (Individual)	617,156,117	2.62	1,894
Historical (LPP)	28,500,000	0.12	87
Total Trinity	645,565,117	2.74	1,981

Other Aquifers MZs	Gallons	cfs	acre-feet
Historical (Individual)	2,500,000 gal	0.01	8
Historical (LPP)	0	0	0
Total Other Aquifers	2,500,000	0.01	8

A summary of the <u>actual versus permitted production volumes</u> for each Management Zone is also provided below.

FY 2022 Production from Individual Permittees			
Production Zone	Actual Production	Permitted Individual Production	
Edwards	1,556,550,119	2,666,452,104	
Trinity	211,230,909	617,156,117	
Austin Chalk or Alluvial	48,116	2,500,000	
Total (Gallons)	1,767,829,114	3,286,108,221	
	(5,425.27 ac ft)	(10,084.69 ac ft)	

		Permitted Limited
Production Zone	Actual Production*	Production
Edwards	12,954,652	62,000,000
Trinity	5,954,961	28,500,000
Austin Chalk or Alluvial	0	0
Total (Gallons)	18,909,613	90,500,000
	(58.03 ac ft)	(277.73 ac ft)

A summary and description of the <u>estimated exempt well production volumes</u> for the Edwards and Trinity Management Zones is also provided below.

Edwards Aquifer –
Estimated Exempt Wells Production

Estimated Exempt Wells 1	Oudction
Average Annual Volume per Exempt Well (gpy)	104,573
Total Est Volume of Exempt Well Production (gpy) *	105,827,876
Est # of wells	1012
cfs	0.45
% of Permitted Production	3.13%
Permitted Edwards Production(gpy)	3,376,547,221

Trinity Aquifer –
Estimated Exempt Wells Production

Average Annual Volume per	
Exempt Well (gpy)	104,573
Total Est Volume of Exempt Well	
Production (gpy) *	120,572,669
Est # of wells	1153
cfs	0.51
% of Permitted Trinity Production	18.7%
Permitted Trinity Production (gpy)	645,565,117

<sup>\*2010</sup> BSEACD Staff Report - Avg Exempt Well Use=104,573 gpy

#### **Edwards Aquifer Exempt Use Estimates**

The most current estimate for Edwards exempt well production is described in a 2010 District report (Banda et al., 2010). The methodology findings are fully described and involve using GIS to count the total number of potential exempt water wells within the District, and determine how to add them to existing databases of wells. A volume of annual estimated production from exempt wells was based upon water-use profiles and metered data. The 2010 report findings conclude that the estimated production volumes for Edwards Exempt wells was 104,050,000 gal (0.44 cfs) and the estimated number of exempt wells was 995. This volume was approximately equal to 5% of the permitted volume at that time, and was thought to be a proportion that could be applied going forward. However, considering that the current estimate of exempt Edwards wells is about 1012, the number, and therefore volumetric use of exempt Edwards is relatively constant, and substantiates the use of the 0.44 cfs.

#### **Trinity Aquifer Exempt Use Estimates**

Very few exempt Trinity wells existed in the District prior to the HB 3405 annexation. After annexation of a large portion of Hays County, the total number of exempt Trinity wells within the District was largely unknown due to the complexity of geology, aquifer completion, and lack of available information. In 2019, staff developed a method to help estimate the number of exempt wells completed in the Trinity Aquifer in the District that focused on the annexation area. The results of the methodology are briefly described in the District Staff Report 2019 (Gary et al., 2019). The methodology estimates the number of exempt Trinity wells using GIS, and considers existing well completions, water service areas, geology, and County Appraisal District information. Results estimated that the number of exempt wells was 1153 wells. Considering meter data and average annual household use, the estimated production volumes for Trinity Exempt wells are approximately 120,260,000 gal (0.51 cfs).

<sup>\*2010</sup> BSEACD Staff Report - Avg Exempt Well Use = 104,573 gpy

# 3.0 REQUIRED DATA AND INFORMATION

The District Bylaws and MP require a number of specific items to be included in the Annual Report. This information is included in the following subsections of the Annual Report.

## 3.1 Aquifer Status

FY 2022 began with a status of "No Drought" due to a wet spring and summer 2021, narrowly keeping spring flow and aquifer levels from dipping below Stage II thresholds. However, below-average rainfall from winter 2021 through summer 2022 wasn't enough to keep levels from declining. By June 2022, Barton Springs and Lovelady crossed under their Stage II Alarm Drought thresholds and the Board declared a Stage II Alarm Drought on June 9, 2022. Levels declined throughout the summer as La Niña conditions - entering a third consecutive year - brought warmer and drier climate to the Hill Country.

Calendar year 2022 began with a combined 8.2 inches of rain from January to April (0.8 inches below historical average), which provided enough recharge to keep spring flow and water levels hovering just above the Stage II thresholds. The Climate Prediction Center (CPC) announced that La Niña conditions built up strength in February and were favored to continue into the summer. The impact of drier-than-usual conditions early in the year were seen in regional aquifers when Barton Springs flow began to decline in early February and Lovelady water level followed in early March.

A combined 6.7 inches of spring rain fell from March through June 2022, almost 7 inches below historical average. May and June, which are historically the wettest months of the year in Central Texas, were both well below their historical monthly averages (-2.8 & -2.7 respectively). In fact, both May and June 2022 were documented as the warmest on record in Austin, which perpetuated the downward spring flow and water level trends. With Barton Springs and Lovelady water levels falling below their respective Stage II Alarm thresholds in early June, the Board declared Stage II Alarm Drought conditions on June 9, 2022.

In July 2022, the CPC predicted a high probability for La Niña to persist into fall and early winter. This indicated that aquifer conditions were likely destined for intensifying drought. With a combined 5.6 inches of rain from July to October (5.5 inches below historical monthly average) and little-to-no recharge, aquifer levels and spring flow continued to decline.

To summarize, the Austin/Hill Country area has received an average 18 inches of rainfall so far in 2022 (through November 17th), 14 inches below the annual average and only half as much as the 36 inches in 2021. Forecasted below-average rainfall with persistent La Niña conditions indicate we'll finish 2022 well below average and are in for a dry spring 2023. Conservation remains critical if we hope to be resilient through this significant period of Central Texas drought.

# 3.2 Grant Programs

During FY 2022, Aquifer Science staff installed two monitor wells near Jacob's Well, funded in part by grants from Hays County and HTGCD including additional funding from the District. One of these wells was a Westbay multiport well that was completed into the Middle and Lower Trinity Aquifers with ten monitor zones. The second well was a dual completion well installed in the Jacob's Well Natural Area with one monitor zone in the Cow Creek and another in the Lower Glen Rose. A preliminary report was written describing the well installation process and the initial water-level data (Smith, B.A., Watson, J.A., and J. Camp, 2022, Preliminary Report on the Installation of Two Multilevel Monitor Wells Near Jacob's Well: BSEACD Technical Memo 2022-0831, 80 p.)

#### 3.3 Professional Services

The District expended \$98,992 for professional services in FY 2022.

This amount included legal fees of \$50,842 for general counsel support provided by Bickerstaff, Heath, Delgado & Acosta LLP of Austin, and included involvement of the District and its attorneys in the following main billing categories: General Matters/Personnel \$38,981; and Redistricting \$10,321.

There were no legal services associated uniquely with grant projects as grant-billable costs.

Additional professional services for FY 2022 also reported in the above amount include the District's third-party retirement plan administrator, The Standard, for \$34,500.

The District retained Montemayor Britton Bender PC early in 2016 to perform its annual financial audits. The fee for these professional services is \$13,650 for FY 2022, and is also included in the professional services total above.

Not included in the professional services total above, the District expended \$12,000 for the lobbying services of SledgeLaw Group for the 87th Legislative Session. The District has changed the timing of when legislative issues are addressed from a biennial expense to an ongoing expense according to a new term of agreement dated July 1, 2016, being a flat-fee structure bifurcated between legislative session months and legislative interim months spread across 24 months. During legislative months – November of even-numbered years through June of odd-numbered years, the fee will be \$4,000 per month. During legislative interim months – July of odd-numbered years through October of even-numbered years, the fee will be \$1,000 per month, therefore one year there will be \$36,000 in legislative expenses, and the following year there will be \$12,000 in legislative expenses.

These professional services do not include the contracted labor that comprises programmatic support to various team initiatives and that is budgeted as part of the individual team budgets.

# 3.4 Capital Projects

There were no District capital projects in FY 2022.

# 3.5 Financial Report

As authorized in the District Bylaws, the Board utilizes the Texas Treasury Safekeeping Trust Company (commonly referred to as "TexPool") as a depository for its funds not required by its current operations. There are several built-in controls and safeguards in the TexPool account mechanisms. The District has established and maintains funds in three TexPool accounts to further minimize risk and to partition funds designated for certain potential uses. To facilitate payments and timely deposits, the District also maintains both checking and payroll accounts with Branch Banking and Trust Company (BB&T)/now Truist, which are FDIC-insured. Monies are moved electronically between these Truist accounts and the TexPool accounts, generally keeping funds not required by current operations in TexPool, and therefore the cash balances in the operating bank accounts as small as prudently feasible. The District has no additional monetary investments other than its cash fund accounts.

End-of-the-year cash and account balances and an independent assessment of financial controls will be found in the Annual Audit Report, included as Appendix A, upon completion of the financial audit.

## 3.6 Evaluation of District's Long-Range Plan Pursuant To §36.1071

#### 3.6.1 Background

TWC §36.1071 requires all GCDs to establish and maintain a long-range comprehensive plan for groundwater management in the District. This long-range plan is a ten-year plan called the District Management Plan. The MP must be reviewed, revised as necessary, readopted, and reapproved at least once each five years. The current plan was adopted in November of 2017. Pursuant to the code provisions, all GCDs are required to assess progress quantitatively toward the objectives in their prevailing MP at least annually. This assessment is summarized in the following Section 3.6.2, and elaborated on in Appendix B of this Annual Report.

## 3.6.2 Board Evaluation of Goals, Objectives, and Progress Assessment

Section 2.0 of this report highlights some activities for each of the operational teams. A more comprehensive and detailed listing of the activities of the District is included in Appendix B, which was prepared by staff to assist the Board's evaluation of the progress made in FY 2022 toward the goals, objectives, and performance standards identified in the prevailing District MP.

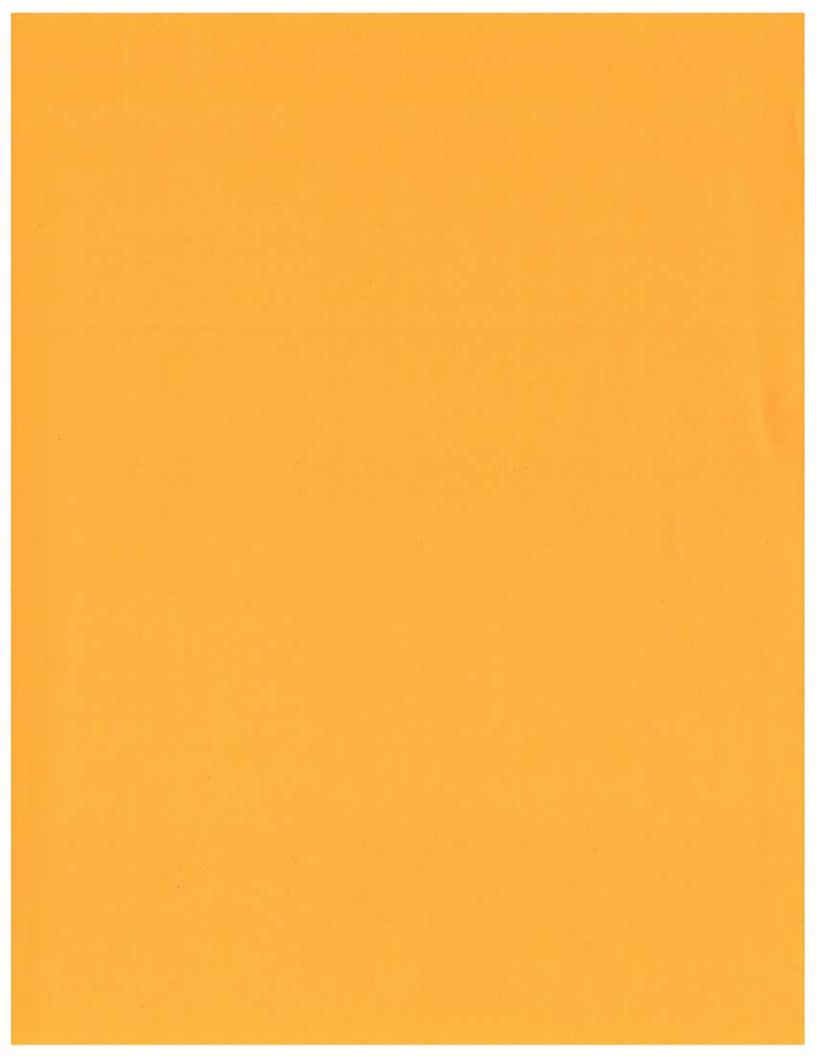
On December 8, 2022, the Board reviewed the information in Appendix B, discussed its conformance with the plan objectives and their subsidiary performance standards, and then took action to evaluate progress made by the District toward these strategic objectives, as specified in the metrics for each of the objectives. Following a proper motion and second, and discussion in a properly noticed Open Meeting, the Board unanimously approved the progress toward each and all objectives in FY 2022 as being satisfactory. The basis for that decision-making is included in this Annual Report as Appendix B.

This assessment for FY 2022 measured the progress towards the goals and objectives of the current MP, which was approved by the TWDB on November 21, 2017, and will serve as the basis for the Board's next evaluation of the plan's objectives in FY 2023.

# **APPENDIX A**

# **Independent Annual Financial Audit Report**

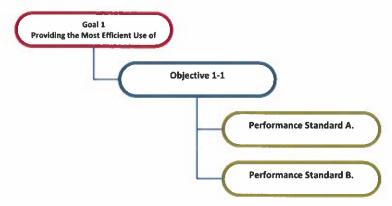
(To be Board-approved in December 2022)



## Staff Guidance - 2022 Annual Report / Appendix B

When completing your written update for each objective, please try to include a few sentences on what the proposed future actions will be for that specific objective. Staff need to address how each performance standard was met or the current status of that performance standard.

- Goals are set by the TWDB. These 8 goals are captured in our Management Plan.
- Objectives are set by District Staff/Board. These objectives are the same objectives for the HCP.
- **Performance Standards** are set by District Staff/Board. These performance standards are the same reporting standards that have to be completed for the HCP. Many of these standards have always been reported on in previous Annual Reports.



Use the following table for staff assignment purposes. Each team is responsible for completing the content of their designated performances standards.

General Mgmt.	Administration	Education & Outreach	Aquifer Sci	Reg. Compliance
(9 objectives)	(3 objectives)	(6 objectives)	(8 objectives)	(8 objectives)

Goal 1 Objectives	Goal 2 Objectives	Goal 3 Objectives	Goal 4 Objectives	Goal 5 Objectives	Goal 6 Objectives	Goal 7 Objectives	Goal 8 Objectives
1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1
1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2
1-3	2-3	3-3	4-3	5-3	6-3		8-3
1-4	2-4	3-4	4-4	5-4	1		
1-5			4-5	5-5			
1-6					2.5		
1-7	1						

# FY 2022

# **Appendix B**



**Assessment of Progress Toward Management Plan Goals and Objectives** 

To be Board-approved December 8, 2022

## GOAL 1 - Providing the Most Efficient Use of Groundwater

31 TAC 356.52(A)(1)(A)/TWC §36.1071(A)(1)

**Objective 1-1.** Provide and maintain on an ongoing basis a sound statutory, regulatory, financial, and policy framework for continued District operations and programmatic needs.

#### Performance Standards

A. Develop, implement, and revise as necessary, the District Management Plan (MP) in accordance with state law and requirements. Each year the Board will evaluate progress towards satisfying the District goals. A summary of the Board evaluation and any updates or revisions to the MP will be provided in the Annual Report.

In FY 2022, the District continued to implement its MP that was approved by the Texas Water Development Board (TWDB) on November 21, 2017. No revisions or amendments to the MP were presented or made.

In order to achieve the goals, management objectives, and performance standards adopted in the MP, on December 8, 2022, the District's Board of Directors (Board) evaluated progress made, and approved the District's FY 2022 Annual Report and Appendix B (Assessment of Progress toward Management Plan Goals and Objectives). Appendix A (the annual financial audit) was also presented at the December 8, 2022 Board Meeting.

B. Review and modify District Rules as warranted to provide and maintain a sound statutory basis for continued District operations, and to ensure consistency with both District authority and programmatic needs. A summary of any rule amendments adopted in the previous fiscal year will be included in the Annual Report.

During FY 2022, there were no new rules or rule amendments adopted by the Board.

**Objective 1-2.** Monitor aggregated use of various types of water wells in the District, as feasible and appropriate, to assess overall groundwater use and trends on a continuing basis.

#### Performance Standard

Monitor annual withdrawals from all nonexempt wells through required monthly or annual meter reports to ensure that groundwater is used as efficiently as possible for beneficial use. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each Management Zone (MZ) and permit type will be provided in the Annual Report.

A summary of the actual versus permitted production volumes for each MZ is also provided below.

FY 2022 Produc	FY 2022 Production from Individual Permittees				
Production Zone	Actual Production	Permitted Individual Production			
Edwards	1,556,550,119	2,666,452,104			
Trinity	211,230,909	617,156,117			
Austin Chalk or Alluvial	48,116	2,500,000			
Total (Gallons)	1,767,829,114	3,286,108,221			
	(5,425.27 ac ft)	(10,084.69 ac ft)			

		Demonite ad Linsie
Production Zone	Actual Production*	Permitted Limite Production
Edwards	12,954,652	62,000,000
Trinity	5,954,961	28,500,000
Austin Chalk or Alluvial	0	0
Total (Gallons)	18,909,613	90,500,000
	(58.03 ac ft)	(277.73 ac ft)

<sup>\*</sup>Actual production is a volume estimate calculation described in the findings and conclusions of the BSEACD Staff Report 2010. Average Annual exempt well production is approximately 104,473 gpy

Objective 1-3. Evaluate quantitatively at least every five years the amount of groundwater withdrawn by exempt wells in the District to ensure an accurate accounting of total withdrawals in a water budget that includes both regulated and non-regulated withdrawals, so that appropriate groundwater management actions are taken.

#### Performance Standards

Provide an estimate of groundwater withdrawn by exempt wells in the District using Texas Department of Licensing and Regulation (TDLR) and TWDB databases, and District well records; and update the estimate every five years with the District's MP updates.

This is a joint effort between the Aquifer Science, Communications and Outreach, and Regulatory Compliance teams. The next estimation of exempt wells is expected to take place with the next update of the District's MP (2022).

In the interim years between MP updates, the most current estimates of exempt well withdrawals will be included in a summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type that will be provided in the annual report.

A summary table of the <u>estimated exempt well production volumes</u> for the Edwards and Trinity MZs is provided below.

# Edwards Aquifer – Estimated Exempt Wells Production

Estimated Exempt wens 11	ounction
Average Annual Volume per Exempt Well (gpy)	104,573
Total Est Volume of Exempt Well Production (gpy) *	105,827,876
Est # of wells	1012
cfs	0.45
% of Permitted Production	3.13%
Permitted Edwards Production(gpy)	3,376,547,221

*2010 BSEACE	Staff Report -	Ava Evament Mal	Use=104.573 apv
TOTO DOTUCO	JUNI NEDOLE -	WAR EVELLING ALES	1 036-T04-3/3 UDV

# Trinity Aquifer – Estimated Exempt Wells Production

Average Annual Volume per	:
Exempt Well (gpy)	104,573
Total Est Volume of Exempt Well	1
Production (gpy) *	120,572,669
Est # of wells	1153
cfs	0.51
% of Permitted Trinity Production	18.7%
Permitted Trinity Production (gpy)	645,565,117

<sup>\*2010</sup> BSEACD Staff Report - Avg Exempt Well Use=104,573 gpy

**Objective 1-4.** Develop and maintain programs that inform and educate citizens of all ages about groundwater and springflow-related matters, which affect both water supplies and salamander ecology.

#### Performance Standards

Publicize District drought trigger status (Barton Springs ten-day average discharge and Lovelady Monitor Well water level) in monthly eNews bulletins and continuously on the District website.

The home page of the website has the District's drought trigger levels prominently displayed. There is a small banner at the very top of the page showing the current drought status. However, there is a much larger banner on the upper half of the page, also showing the current drought status. The Aquifer Science/Drought Status page was visited approximately 1,331 times through FY 2022. The drought status is shared under highlights on the home page of the website, on the newsroom page, and the press release page when there is a change to the drought status.

Drought status updates are also shared across all District social media channels (Twitter, YouTube, Facebook, Instagram, Nextdoor). The Lovelady and Barton Springs levels are shared a few times a month on the District's social media channels and website to let the permittees and general audience know how high or low the levels or going, and also when we may cross into the next drought stage.

In addition, drought status information has been shared in a new monthly drought report sent out to permittees/subscribers through eNews. The report is then shared on the District's social media channels and website. Included below are the drought reports/videos that have been released since the District went into alarm drought stage in June 2022.

Drought Update – July 20, 2022 - <a href="https://bit.ly/3PHv5pr">https://bit.ly/3PHv5pr</a>
Drought Update – August 25, 2022 - <a href="https://bit.ly/3elxFUV">https://bit.ly/3elxFUV</a>
Drought Update – Sept. 22, 2022 - <a href="https://www.youtube.com/watch?v=FfGXv474T-U&t=3s">https://www.youtube.com/watch?v=FfGXv474T-U&t=3s</a>
Drought Update – Aug. 17, 2022 - <a href="https://www.youtube.com/watch?v=WGiQ4-aAIWs&t=5s">https://www.youtube.com/watch?v=WGiQ4-aAIWs&t=5s</a>
Drought Update/Well Monitoring-July 26 - <a href="https://www.youtube.com/watch?v=HpLznZZ7QYE&t=4s">https://www.youtube.com/watch?v=HpLznZZ7QYE&t=4s</a>
Aquifer District Declares Stage II Drought –June 9, 2022-https://www.youtube.com/watch?v=wJ5KiC

Provide summaries of associated outreach and education programs, events, workshops, and meetings in the monthly team activity reports in the publicly-available Board backup.

- Protect Your Groundwater Day: September 7, 2021. The Communications and Outreach Team put together a video with Principal Hydrogeologist Brian Smith, regarding how the District protects groundwater.
- MyPoint.TV: MyPoint.TV is a new online news company in Austin that uses public and eyewitness
  reporting to give everyone the opportunity to publish stories that matter to them. The District has an
  account and shares videos from time to time on their site. They don't have a huge reach, but this is
  another tool that gives the District access to a broader audience and allows the District to educate
  more than just its jurisdiction on aquifer/water related issues. This is a continued collaboration from
  FY 2021.
- Explorers Guide to the Hill Country Oasis: The District once again sponsored Save Barton Creek Association's Explorers Guide to the Hill Country Oasis. The District budgeted \$1,000 for the sponsorship.
- Imagine a Day Without Water: October 21, 2021. Communications and Outreach shared several posts highlighting staff, the District's mission, and other facts around groundwater.
- 2022 Summer Aquatic Science Adventure Camp Scholarship Essay/Art Contest: The District offered several scholarships (overnight and day camp options) to attend the 2022 Edwards Aquifer Research and Data Center's Aquatic Science Adventure Camp at Texas State University in San Marcos. The Aquatic Camp returned after being canceled for two years due to covid. Scholarships were awarded to ten students. Total scholarship funding was \$6,360.
- 2022 Kent S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest: The District conducted its annual Kent. S. Butler Memorial Groundwater Stewardship Scholarship Essay Contest. Three high school scholarship winners were selected. Total scholarship funding was \$4,500.
- Texas Alliance of Groundwater Districts (TAGD) Information and Education Committee. Communications and Outreach Manager is part of TAGD's Information and Education Committee. As part of the committee, Communications and Outreach reviewed sections of the communications toolkit that is being worked on. This included reviewing the newsletter guide, advocacy checklist, open meetings guide, introduction to communications channels, and how to use the toolkit. Communications and Outreach also assisted TAGD with creating a media relations cheat sheet. The document serves as a guide for employees in Texas groundwater conservation districts (GCDs) on how to handle communications for a variety of platforms. It also addresses how to communicate during specific situations.
- National Cave and Karst Management Symposium 2021: Communications and Outreach attended this Symposium in San Marcos from November 1 to November 5. This included setting up a table at the symposium.
- Water Well Checkup: The District teamed up with Texas A&M Agrilife Extension and Texas Well
  Owner Network to provide Water Well Checkups for District well owners. The cost of the water
  analysis was covered by the District for the first fifty well owners to pick up a water kit. The samples
  were taken to Luling for analysis. Results were physically mailed to well owners and emailed. There
  were over twenty-five permittees that took part in the program.
- Water Week Owners Educational Event: Communications and Outreach Manager, and Regulatory Compliance Team Leader spoke at this event educating the audience on the District. This took place at Luling Foundation Headquarters in Luling on March 3, 2022.

- Buda Trash-Off: The District sponsored the City of Buda's Trash-Off in April 2022. People gathered
  to pick up trash around Buda for the event. Communications and Outreach set up an informational
  table at the event.
- BUDA ASR Article for Fall 2021 Newsletter: Communications and Outreach worked with City of Buda Water Resources Coordinator Blake Neffendorf on BUDA ASR article for the District newsletter. Communications and Outreach also worked with City of Buda Communications Department.
- City of Sunset Valley Public Works Open House: Communications and Outreach was invited to take
  part in the City of Sunset Valley Public Works Open House. The District set up an informational table
  and Communications and Outreach Manager answered resident questions.
- Caves, Mud, and Water Event: Communications and Outreach volunteered at the Caves, Mud, and Outreach event at the Wildflower Center on June 30, 2022. This is put on by the Austin Watershed Protection Department, Park Rangers, and Wildland Conservation Division.
- UT Jackson School of Geosciences Hydrogeological Field Trip: Students with the UT Jackson School
  of Geosciences visited Jacob's Well and the District's new multiport monitor well in Wimberley.
  Communications and Outreach took photos and shared on social media.
- TWDB Monitor Well Visit/Video Shoot: The TWDB came out on May 12, 2022, to shoot a video on
  a second monitor well installation near Jacob's Well. The District collaborated with TWDB on the
  shoot, and they interviewed Aquifer Science Principal Hydrogeologist. The video was shared on the
  District's social media channels and in the newsletter.
- Edwards Aquifer Authority (EAA) Research Center/Education and Outreach Center Visit: Staff went on a retreat to the EAA Research Center and visited the new Education Outreach Center. Communications and Outreach took photos and shared information about the visit on the District's social media channels.
- Regional Water Quality Planning Group Meeting: Communications and Outreach began coordinating
  the monthly Regional Water Quality Planning Group meetings, which take place the last Friday of
  every month. This group is comprised of stakeholders from various organizations focused on
  protecting water here in Central Texas.
- Community Meeting Rolling Oaks Neighborhood: The District held a community meeting in the
  Rolling Oaks Neighborhood on August 6, 2022. The meeting focused on the current drought, along
  with a question-and-answer session for those in attendance. Director Dan Pickens and staff attended.
  Communications and Outreach set up an informational table and signed up those in attendance for the
  District's newsletter/press releases. The meeting was recorded and shared on the District's social
  media channels and website.

This summary may also be found in the Communications and Outreach Team section of the Annual Report.

**Objective 1-5.** Ensure responsible and effective management of District finances such that the District has the near-term and long-term financial means to support its mission.

Performance Standards

Receive a clean financial audit each year. A copy of the auditor's report will be included in the Annual Report (as Appendix A).

The Board expects to receive and approve the FY 2022 Annual Financial Audit report provided by the District's financial auditor at its Board Meeting on December 8, 2022. It will be included in the Annual Report as Appendix A.

Timely develop and approve fiscal-year budgets and amendments.

In FY 2022, there were two budget versions. The initial budget was brought before the Board in a properly-noticed public hearing held on July 8, 2021 where it was approved. The Board approved Budget Revision 1 on October 14, 2021.

Objective 1-6. Provide efficient administrative support and infrastructure, such that District operations are executed reliably and accurately, meet staff and local stakeholder needs, and conform to District policies and with federal and state requirements.

#### Performance Standards

Maintain, retain, and control all District records in accordance with the Texas State Library and Archives Commission-approved District Records Retention Schedule to allow for safekeeping and efficient retrieval of any and all records, and annually audit records for effective management of use, maintenance, retention, preservation and disposal of the records' life cycle as required by the Local Government Code. A summary of records requests received under the Public Information Act (PIA), any training provided to staff or directors, or any claims of violation of the PIA will be provided in the Annual Report under the General Management Team Highlights.

The Administration Team is responsible for proper maintenance, management, retention, and disposition of all District records; inventory of District property (asset management); and capital depreciation. Administration preserved and protected all public documents in accordance with state and federal laws, the adopted District Records Retention Schedule, and with the Texas State Library regulations; and maintained the District's reference material library.

District records were maintained effectively, and there were no violations of the PIA.

Develop, post, and distribute District Board agendas, meeting materials, and backup documentation in a timely and required manner; post select documents on the District website, and maintain official records, files, and minutes of Board meetings appropriately.

The Administration Team developed, posted, and distributed all materials and backup documentation for all 10 District Regular Meetings and one Special Called Meeting held in FY 2022. There were also two Public Hearings. All meeting minutes were approved by the Board at a subsequent meeting. Administrative staff maintained the officials records of each meeting on the District's website and in the District's library.

**Objective 1-7.** Manage and coordinate electoral process for Board members.

Performance Standard

Ensure elections process is conducted and documented in accordance with applicable requirements and timelines. Election documents will be maintained on file, and a summary of elections-related dates and activities will be provided in the Annual Report for years when elections occur.

The District holds elections no more often than every two years (in odd-numbered fiscal years, if and when election contests warrant).

There was a vacant position on the Board of Directors due to a resignation from the director in Precinct 3. Lily Lucas was appointed by the Board to fill that vacancy in December 2021.

Three director precincts (precincts 2, 3, and 5) were up for a possible election during FY 2022 for the November 8, 2022 election (FY 2023). Two directors were unopposed, and the third resigned and a new director took his place with no opposition. Since there was no opposition for any of the three directors, the election was cancelled.

## GOAL 2 - CONTROLLING AND PREVENTING WASTE OF GROUNDWATER

31 TAC 356.52(A)(1)(B)/TWC §36.1071(A)(2))

**Objective 2-1.** Require all newly drilled exempt and nonexempt wells, and all plugged wells to be registered and to comply with applicable District Rules, including Well Construction Standards.

#### Performance Standard

A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments including approved use types and commensurate permit volumes for production permits and amendments will also be provided in the Annual Report.

To ensure that all firm-yield production permits are evaluated with consideration given to the District's demand-based and non-speculative permitting standards, staff completed comprehensive administrative and technical reviews of permit application requests. A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments, including approved use types and commensurate permit volumes for production permits and amendments, is provided below.

A summary of the processed permitting applications in FY 2022 is provided in the table below.

Processed Permit Applications	FY20	FY21	FY22
Minor Amendment	3	4	5
Major Amendments	0	0	0
New Exempt Well	2	9	11
Limited Production Permit (Nonexempt Domestic Wells)	9	15	10
Individual Production Permit	5	1	4
Individual Well Drilling Authorizations or Well Modification		1	0
Test Well	0	0	0
Well Plugging	_ 6	5	9
Replacement Well	0	0	0
TOTAL	28	35	39

A summary of the individual production permits processed in FY 2022 is provided in the table below.

Annual Volume (gpy)	Production Permits Processed	Permit Type	Use Type	Aquifer
300,000	Confido, LLC	Class A Conditional	Commercial	Edwards
130,500	17050 S IH-35 Frontage Road, LLC	Class A Conditional	Commercial	Edwards
1,834,560	Goebler Properties, Inc.	Class A Conditional	Commercial	Edwards
943,500	Texas Legacy Masters, LLC	Historic	Commercial	Middle Trinity

**Objective 2-2.** Ensure permitted wells and well systems are operated as intended by requiring reporting of periodic meter readings, making periodic inspections of wells, and reviewing pumpage compliance at regular intervals that are meaningful with respect to the existing aquifer conditions.

#### Performance Standards

Inspect all new wells for compliance with the Rules, and Well Construction Standards, and provide a summary of the number and type of inspections or investigations in the Annual Report.

During FY 2022, the Regulatory Compliance Team conducted a number of inspections relating to the processing of permit applications. Staff completed a total of 13 inspections related to special investigations, site permittee inspections, and well permit applications. The Regulatory Compliance Team collected 3 water quality samples during routine permit inspections or from new well construction inspections. There were no formal enforcement actions initiated in FY 2022 that required special site visits.

FY 2022 Inspections/ Investigations/ Visits		
Exempt Well Inspections	0	
Limited Production Permit Inspections	3	
Individual Production Permit Inspections		
Test Well Inspections		
Plugging Inspections		
Special Investigation Inspections		
Other Permittee Meetings/Visits *		
*Multiple meetings were held with some permittees.		
TOTAL	13	

Provide a summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type in the Annual Report.

A summary of the actual versus permitted production volumes for each MZ is provided above in the Objective 1-2 Performance Standard update.

Objective 2-3. Provide leadership and technical assistance to government entities, organizations, and individuals affected by groundwater-utilizing land use activities, including support of or opposition to legislative initiatives or projects that are inconsistent with this objective.

#### Performance Standards

A. In even-numbered fiscal years, provide a summary of interim legislative activity and related District efforts in the Annual Report. In odd-numbered fiscal years, provide a legislative debrief to the Board on bills of interest to the District, and provide a summary in the Annual Report.

#### During FY 2022, the Texas State Legislature did not meet.

B. Provide a summary of District activity related to other land use activities affecting groundwater in the Annual Report.

#### Development Activities Over Recharge and Contributing Zones:

The District continues to monitor as many proposed/new developments as possible and Texas Pollutant Discharge Elimination System (TPDES) permits in the contributing and recharge zones of the Barton Springs segment of the Edwards Aquifer. Furthermore, the District continues to track legislation regarding wastewater discharges in the Edwards Aquifer Contributing Zone.

#### Texas Sunset Advisory Commission:

The Texas Commission on Environmental Quality (TCEQ) was one of the state agencies under sunset review during FY 2022, and District staff submitted a multi-point critique of the TCEQ's handling of wastewater permitting. The District's comments and recommendations were not included in the Advisory Commission's final report.

**Objective 2-4.** Ensure all firm-yield production permits are evaluated with consideration given to the demand-based permitting standards including verification of beneficial use that is commensurate with reasonable non-speculative demand.

#### Performance Standard

A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments including approved use types and commensurate permit volumes for production permits and amendments will be provided in the Annual Report.

To ensure that all firm-yield production permits are evaluated with consideration given to the District's demand-based and non-speculative permitting standards, staff completed comprehensive administrative and technical reviews of permit application requests. A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments including approved use types and commensurate permit volumes for production permits and amendments is provided below.

# A summary of the processed permitting applications in FY 2022 is provided in the table below.

Processed Permit Applications	FY20	FY21	FY22
Minor Amendment	3	4	5
Major Amendments	0	0	0
New Exempt Well	2	9	11
Limited Production Permit (Nonexempt Domestic Wells)	9	15	10
Individual Production Permit	5	1	4
Individual Well Drilling Authorizations or Well Modification	2	1	0
Test Well	0	0	0
Well Plugging	6	5	9
Replacement Well	0	0	0
TOTAL	28	35	39

# A summary of the individual production permits processed in FY 2022 is provided in the table below.

Annual Volume (gpy)	Production Permits Processed	Permit Type	Use Type	Aquifer
300,000	Confido, LLC	Class A Conditional	Commercial	Edwards
130,500	17050 S IH-35 Frontage Road, LLC	Class A Conditional	Commercial	Edwards
1,834,560	Goebler Properties, Inc.	Class A Conditional	Commercial	Edwards
943,500	Texas Legacy Masters, LLC	Historic	Commercial	Middle Trinity

# GOAL 3 - ADDRESSING CONJUNCTIVE SURFACE WATER MANAGEMENT ISSUES

31 TAC 356.52(A)(1)(D)/TWC §36.1071(A)(4)

**Objective 3-1.** Assess the physical and institutional availability of existing regional surface water and alternative groundwater supplies, and the feasibility of those sources as viable supplemental or substitute supplies for District groundwater users.

#### Performance Standard

A summary of District activity related to this objective will be provided in the Annual Report.

Identify available alternative water resources and supplies that may facilitate source substitution and reduce demand on the Edwards Aquifer while increasing regional water supplies; and evaluate feasibility by considering available/proposed infrastructure, financial factors, logistical/engineering factors, and potential secondary impacts (development density/intensity or recharge water quality).

Staff worked cooperatively with the Ruby Ranch Water Supply Corporation (RRWSC) and their consultants to monitor water quality, water levels and water chemistry sampling and meter accounting of injection and extraction phases of their aquifer storage and recovery (ASR) operation (the 4th in Texas). The District also worked cooperatively with the TCEQ Underground Injection Control (UIC) Permits Section to assist in permit provisions. RRWSC is currently authorized to inject 15,000,000 and recover 12,300,000 gallons over a one-year period. In FY 2020, RRWSC was given a Conditional D permit for Edwards groundwater to inject into the Trinity Aquifer. In FY 2021, RRWSC began their first Conditional D permitted ASR recovery in September 2020 and from June-August 2021, with a total of 3,117,700 gallons recovered from Trinity formations. Water-quality data collected by RRWSC was shared with the District and evaluated by Aquifer Science staff.

#### https://bseacd.org/uploads/RubyRanchASR Status-Report FINAL.pdf

Objective 3-2. Encourage and assist District permittees to diversify their water supplies by assessing the feasibility of alternative water supplies and fostering arrangements with currently available alternative water suppliers.

#### Performance Standard

A summary of District activity related to this objective will be provided in the Annual Report.

Identify available alternative water resources and supplies that may facilitate source substitution and reduce demand on the Edwards Aquifer, while increasing regional water supplies; and evaluate feasibility by considering available/proposed infrastructure, financial factors, logistical/engineering factors, and potential secondary impacts (development density/intensity or recharge water quality).

Staff met with City of Buda staff and their consultant as they prepared a permit application for an ASR system. Staff participated in collecting cuttings and core samples from the ASR test well that Buda installed. In FY 2021, the District received an ASR Pilot Test Plan which was reviewed and found satisfactory by staff to prove the feasibility of the project.

In FY 2022, staff worked cooperatively with the City of Buda to collect data during ASR pilot testing initiated in late 2022. Aquifer Science staff will continue to work with Buda during pilot testing to ensure adequate data is collected during the tests, including monitoring of water levels with the District's Antioch Westbay well to observe potential impacts during pumping from the Buda Trinity ASR well. The Buda ASR project is much larger scale than the RRWSC ASR project. Once pilot testing has been finished, subsequent evaluation of the Buda ASR testing data, along with data from the previous RRWSC ASR testing, will give the District a better understanding of the viability of the Middle Trinity Aquifer as an ASR target reservoir and help guide policymaking decisions for future proposed ASR projects.

Regulatory Compliance and Aquifer Science Teams had discussions with Bill Walters (Gragg Tract) on additional testing of the Lower Trinity Aquifer. Staff continues to assist with data collection and pump testing.

**Objective 3-3.** Demonstrate the importance of the relationship between surface water and groundwater, and the need for implementing prudent conjunctive use through educational programs with permittees and public outreach programs.

#### Performance Standards

Provide summaries of associated outreach and education programs, events, workshops, and meetings in the monthly team activity reports in the publicly-available Board backup.

This information has been presented in the monthly status report section of the Board backups. Visit <a href="https://bseacd.org/transparency/agendas-backup/">https://bseacd.org/transparency/agendas-backup/</a>, click on the Agenda hyperlink beneath the month of interest, the page number of the Status Report is listed under the General Manager (GM) Report section of the meeting agenda. Please see bulleted list in Objective 1-4 for a schedule of events and programs.

Summarized outreach activities and estimate reach is in the Annual Report.

**Objective 3-4.** Actively participate in the regional water planning process to provide input into policies, planning elements, and activities that affect the aquifers managed by the District.

#### Performance Standard

Regularly attend regional water planning group meetings, and annually report on meetings attended.

In FY 2022, staff attended meetings of the Lower Colorado Regional Water Planning Group and reported on any key updates at the Board Meetings. The GM and the alternate served as the Groundwater Management Area (GMA) 10 representatives through August 31, 2022 and continue to serve as liasions. Meetings attended and their agendas are listed below.

JULY 27, 2022 - Region+K+Meeting+Agenda+07-27-2022.pdf (squarespace.com)

APRIL 27, 2022 - 2022-04-27 RegionK Meeting Agenda FINAL.pdf (squarespace.com)

JANUARY 26, 2022 - 2022-01-26 Region K Meeting Agenda.pdf (squarespace.com)

SEPTEMBER 15, 2021 - 2021 9 15 RWPG+Meeting++and+Public+Hearing+Agenda.pdf

# GOAL 4 - ADDRESSING NATURAL RESOURCE ISSUES WHICH IMPACT THE USE AND AVAILABILITY OF GROUNDWATER, AND WHICH ARE IMPACTED BY THE USE OF GROUNDWATER

31 TAC 356.52 (A)(1)(E)/TWC §36.1071(A)(5)

Objective 4-1. Assess ambient conditions in District aquifers on a recurring basis by (1) sampling and collecting groundwater data from selected wells and springs monthly, (2) conducting scientific investigations as indicated by new data and models to better determine groundwater availability for the District aquifers, and (3) conducting studies as warranted to help increase understanding of the aquifers and, to the extent feasible, detect possible threats to water quality and evaluate their consequences.

#### Performance Standards

Review water-level and water-quality data that are maintained by the District and/or TWDB, or other agencies, on a regular basis.

Staff visits approximately 44 monitor wells quarterly, in addition to numerous other wells throughout the year, including six multiport monitor wells. Data is collected and organized into individual spreadsheets and databases. Staff also regularly samples wells and springs for detailed geochemical analyses as a cooperator for the TWDB (13 sites in FY 2022). All data has been compiled in the TWDB database that is publicly available.

Improve existing analytical or numerical models or work with other organizations on analytical or numerical models that can be applied to the aquifers in the District.

Staff provided key technical support in the development of a conceptual model for the aquifers of the Blanco River watershed. That report (https://bseacd.org/uploads/Martin-et-al.-2019-BRAAT.pdf) was published at the end of FY 2019. Since then, staff have continued to work with the modeling team to provide technical guidance during ongoing model development and construction phase of the project.

Aquifer Science staff began development of an in-house numerical groundwater model (IHM) of the Trinity Aquifer in FY 2020. The IHM model domain covers parts of Travis, Hays, Blanco, and Comal counties. A steady-state version of the model was completed in late 2020. In FY 2021-2022, staff have worked to transition the model from steady-state to transient state. Transient models are substantially more complex than steady-state, and allow for simulation of the aquifer system under changing conditions such as prolonged drought and/or increases in localized or regional pumping. In FY 2022, preliminary transient model results were presented to the board to help guide discussion on the District's Trinity Sustainable Yield Project. A report summarizing these preliminary findings was produced and circulated to board and staff.

Once completed, the in-house model will provide a valuable tool which will allow policy makers and stakeholders to evaluate the potential impacts of management decisions on the Trinity Aquifer. In addition, development of the IHM will be a valuable training exercise for Aquifer Science staff, who will be better equipped to evaluate and interact with other groundwater models which are currently under development (such as the Blanco River Aquifer Assessment Tool and the new TWDB Hill Country Trinity Groundwater Availability Model).

No significant changes in water-quality data were observed during FY 2022. Aquifer conditions began with a status of No Drought thanks to a wet spring and summer 2021, narrowly keeping spring flow and aquifer levels from dipping below Stage II Alarm thresholds. However, below-average rainfall from winter 2021 through summer 2022 wasn't enough to keep levels from declining. By June 2022, Barton Springs and Lovelady crossed under their Stage II Alarm Drought thresholds and the Board declared a Stage II Alarm Drought on June 9, 2022.

**Objective 4-2.** Evaluate site-specific hydrogeologic data from applicable production permits to assess potential impact of withdrawals to groundwater quantity and quality, public health and welfare, contribution to waste, and unreasonable well interference.

#### Performance Standard

This involves evaluations of certain production permit applications for the potential to cause unreasonable impacts as defined by District rule. To evaluate the potential for unreasonable impacts, staff will (1) perform a technical evaluation of the application, aquifer test, and hydrogeological report; (2) use best available science and analytical tools to estimate amount of drawdown from pumping and influence on other water resources; and (3) recommend proposed permit conditions to the Board for avoiding unreasonable impacts if warranted.

The Aquifer Science staff continues to collect data in the southwestern portion of the District where the Trinity Aquifer is under the influence of significant non-exempt and exempt pumping. Continued monitoring of these and other locations will be critical for evaluating the Trinity Aquifer's response to pumping and drought within the District, and to what extent large pumping centers have the potential to cause unreasonable impacts. In FY 2022, staff completed drilling of two new dedicated monitoring wells in the vicinity of Jacob's Well Spring. One well is a dual-completion well and one well is a multiport well. A report summarizing data collected during drilling operations was produced and published by staff. The wells have been instrumented with water-level monitoring equipment and added to the District's monitoring well network. Going forward, data collected from these wells will improve our understanding of how recharge enters the Trinity Aquifer and travels downgradient into the confined, District portion of the aquifer, and provide a critical dataset for calibration of numerical models currently under construction.

- As indicated above, development of numerical models is underway to assist in the evaluations of
  potential unreasonable impacts from pumping from the large capacity wellfields and from other
  pumping and drought scenarios.
- The Aquifer Science staff continued data collection and analysis on the Trinity Aquifer to further
  expand the conceptual understanding of the Trinity groundwater system within. These data will be
  crucial for informing the District's ongoing efforts to develop a sustainable yield policy framework
  for managing the Trinity Aquifer.

Objective 4-3. Implement separate MZs and, as warranted, different management strategies to address more effectively the groundwater management needs for the various aquifers in the District.

#### Performance Standards

Increase the understanding of District aquifers by assessing aquifer conditions, logging wells, and collecting water quality data. A summary of the number of water quality samples performed will be provided in the Annual Report.

To increase the understanding of District aquifers and water level conditions, staff collects groundwater data from selected wells and performs field assessments such as logging wells and collecting water quality samples.

- The Aquifer Science Team collected 3 samples from sample sites including wells and springs from the Edwards and Trinity Aquifers for major ions and isotopes.
- The Regulatory Compliance Team collected 13 water quality samples during routine permit inspections or from new well construction inspections.

A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type is provided in the Annual Report.

To ensure that all firm-yield production permits are evaluated with consideration given to the District's demand-based and non-speculative permitting standards, staff completed comprehensive administrative and technical reviews of permit application requests. A summary of the number and type of applications processed and approved for authorizations, permits, and permit amendments including approved use types and commensurate permit volumes for production permits and amendments is provided below.

A summary of the processed permitting applications in FY 2022 is provided in the table below.

Processed Permit Applications	FY20	FY21	FY22
Minor Amendment	3	4	5
Major Amendments	0	0	0
New Exempt Well	2	9	11
Limited Production Permit (Nonexempt Domestic Wells)	9	15	10
Individual Production Permit	5	1	4
Individual Well Drilling Authorizations or Well Modification	2	1	0
Test Well	0	0	0
Well Plugging	6	5	9
Replacement Well	0	0	0
TOTAL	48	26	35

A summary of the individual production permits processed in FY 2022 is provided in the table below.

Annual Volume (gpy)	Production Permits Processed	Permit Type	Use Type	Aquifer
300,000	Confido, LLC	Class A Conditional	Commercial	Edwards
130,500	17050 S IH-35 Frontage Road, LLC	Class A Conditional	Commercial	Edwards
1,834,560	Goebler Properties, Inc.	Class A Conditional	Commercial	Edwards
943,500	Texas Legacy Masters, LLC	Historic	Commercial	Middle Trinity

**Objective 4-4.** Actively participate in the joint planning processes for the relevant aquifers in the District to establish and refine desired future conditions (DFCs) that protect the aquifers and the Covered Species of the District Habitat Conservation Plan (HCP).

#### Performance Standard

Attend at least 75% of the GMA (groundwater management area) meetings, and annually report on meetings attended, GMA decisions on DFCs, and other relevant GMA business.

Staff attended 100% of the GMA 10 meetings that were held in FY 2022. The GMA discussions included the following topics:

- Annual review of individual GCD management plans.
- Discussions on possible revisions to the GMA 10 DFCs, as well as standardization of monitor well analysis and reporting occurred.
- Discussion of new planning cycle and expected Request for Qualifications for the next round of modeling and report writing.
- Submission of proposed DFCs and Explanatory Report.

Objective 4-5. Implement the measures of the Habitat Conservation Plan (HCP) and Incidental Take Permit (ITP) from the United States Fish and Wildlife Service (USFWS) for the Covered Species and covered activity to support the biological goals and objectives of the HCP.

#### Performance Standard

Prior to ITP permit issuance, a progress report summarizing activities related to the USFWS review of the ITP application will be provided in the Annual Report. Upon ITP issuance, the HCP annual report documenting the District's activities and compliance with ITP permit requirements will be incorporated into the Annual Report by reference.

The USFWS approved the District's HCP in July 2018, and published the Record of Decision and the final Environmental Impact Statement (EIS). On September 20, 2018, the USFWS issued a 20-year ITP. On April 11, 2019, the Board approved an Interlocal Agreement (ILA) between the District and the City of Austin (CoA) to collaborate and coordinate on routine and planned activities relative to each entity's respective HCP.

The District and the CoA meet annually to discuss their efforts, independent and joint, related to the HCP. The first annual meeting to discuss their respective HCP-related activities was held on December 10, 2019. The second annual meeting was held via Zoom during the pandemic on December 16, 2020. The third meeting was held on December 6, 2021.

On January 6, 2022, a meeting was held with the District HCP Management Advisory Committee (MAC) to discuss the District's HCP-related activities for FY 2021. On February 16, 2020, the third HCP Annual Report was submitted to the USFWS.

#### **GOAL 5 - ADDRESSING DROUGHT CONDITIONS**

# 31 TAC 356.52 (A)(1)(F)/TWC §36.1071(A)(6)

Objective 5-1. Adopt and keep updated a science-based drought trigger methodology, and frequently monitor drought stages on the basis of actual aquifer conditions, and declare drought conditions as determined by analyzing data from the District's defined drought triggers and from existing and such other new drought-declaration factors, especially the prevailing dissolved oxygen (DO) concentration trends at the spring outlets, as warranted.

#### Performance Standards

During periods of District-declared drought, prepare a drought chart at least monthly to report the stage of drought and the conditions that indicate that stage of drought. During periods of non-drought, prepare the drought charts at least once every three months.

Staff monitored the District's two drought trigger sites (the Barton Springs and Lovelady monitor wells) plus numerous other indicators of drought conditions relating to the Edwards Aquifer. The District contracts with the United States Geological Survey (USGS) for the Lovelady Well to maintain equipment, collect, and host as real-time data on their website. The CoA contracts with the USGS to maintain the data for Barton Springs.

Staff frequently verified water-level values measured by the equipment at the Lovelady monitor well (which has recorded data since 1949) and verified discharge measurements made at Barton Springs. During periods of District-declared drought, and preceding potential drought, staff provided timely updated reports of aquifer conditions at each board meeting. Data from Trinity monitor wells were also collected and evaluated at these times.

In 2018, staff evaluated the current drought trigger methodology as it relates to the Middle Trinity Aquifer. Results were published in a memo, and found that the District's established Edwards Aquifer triggers are indeed representative of drought conditions, regardless of the aquifer. In FY 2022, staff continued to monitor Trinity Aquifer water-level drops in response to the ongoing drought and evaluate whether the established Edwards drought triggers are still representative of Trinity Aquifer conditions. To date, the established triggers appear to be adequate. Staff will continue to evaluate Trinity Aquifer water levels as drought conditions persist. If Trinity Aquifer behavior deviates significantly from the Edwards, a reevaluation of established drought triggers may be warranted.

A summary of the drought indicator conditions and any declared drought stages and duration will be provided in the Annual Report.

Objective 5-2. Implement a drought management program that step-wise curtails freshwater Edwards Aquifer use to at least 50% by volume of 2014 authorized aggregate monthly use during Extreme Drought, and that designs/uses other programs that provide an incentive for additional curtailments where possible. For all other aquifers, implement a drought management program that requires mandatory monthly pumpage curtailments during District-declared drought stages.

#### Performance Standard

During District-declared drought, enforce compliance with drought management rules to achieve overall monthly pumpage curtailments within 10% of the aggregate curtailment goal of the prevailing drought stage. A monthly drought compliance report for all individual permittees will be provided to the Board during District-declared drought, and a summary will be included in the Annual Report.

The District implements a drought management program that requires mandatory monthly pumpage curtailments during District-declared drought stages. The District was in Alarm Drought status from June 9, 2022 – October 14, 2022 and provided the Board with a monthly compliance spreadsheet that showed which permittees were under or over curtailment targets. The District was in No Drought stage September 1, 2021 – June 8, 2022.

**Objective 5-3.** Inform and educate permittees and other well owners about the significance of declared drought stages and the severity of drought, and encourage practices and behaviors that reduce water use by a stage-appropriate amount.

#### Performance Standards

During District-declared drought, publicize declared drought stages and associated demand reduction targets in monthly eNews bulletins and continuously on the District website.

The District went into Stage II Alarm Drought on June 9, 2022. Drought stages are publicized through press releases, eNews bulletins, and continuously on the District's website. The home page of the website has the District's drought trigger levels prominently displayed. There is a small banner at the very top of the page showing the current drought status. However, there is a much larger banner on the upper half of the page, also showing the current drought status. The drought status is shared under highlights on the home page of the website, on the newsroom page, and the press release page when there is a change to the drought status. Prior to alarm drought status, the District shared the Water Conservation Period information.

Included below are The Aquifer Zone Newsletters for FY 2022. There is a drought update in every newsletter.

```
The Aquifer Zone – Fall 2021 - https://bit.ly/3WGzHAi
The Aquifer Zone – Winter 2022 - https://bit.ly/3qYrn17
The Aquifer Zone – Spring 2022 - https://bit.ly/3OfkCBT
The Aquifer Zone – Summer 2022 - https://bit.ly/3om196u
```

A summary of drought and water conservation related newsletter articles, press releases, and drought updates sent to Press, Permittees, Well Owners and eNews subscribers will be provided in the Annual Report.

#### Articles included.

 The Aquifer Zone – Fall 2021 Newsletter: Drought and Aquifer Status Update, BSEACD Weather Station, Buda ASR Pilot Test Permit, How BSEACD Protects Groundwater, Science in 60 Seconds: Downhole Video Cameras. What is pH?, Turbidity, Water Conductivity Link to newsletter: https://bit.ly/3WGzHAi

- The Aquifer Zone Winter 2022 Newsletter: Message From General Manager, Drought and Aquifer Status Update, Edwards Aquifer Signs, How Recharge Works, How to Check the District's Drought Status, Science in 60 Seconds: Streamflow Measurement, Aquatic Science Adventure Camp Scholarship Essay/Art Contest, 2022 Kent S. Butler Groundwater Stewardship Scholarship Essay Contest
- The Aquifer Zone Spring 2022 Newsletter: Message From General Manager, Drought and Aquifer Status Update, Water Conservation Period, Drought Status for Area Municipalities, New Director Precinct Boundaries, Multiport Monitor Well Installation, Dye Tracing Study, Aquatic Science Adventure Camp Scholarship Essay/Art Contest, 2022 Kent S. Butler Groundwater Stewardship Scholarship Essay Contest
  Link to newsletter: https://bit.ly/3OfkCBT
- The Aquifer Zone Summer 2022 Newsletter: Message From General Manager, Drought Update, Alarm Drought (Stage II), Community Meeting on Drought, Drought Statuses for Area Municipalities, Residential Limited Production Permitted Wells – Meter Readings, Monitor Well Installation, Kent Butler Scholarship Winners Link to newsletter: <a href="https://bit.ly/3om196u">https://bit.ly/3om196u</a>

#### Press Releases included:

- BSEACD Board Appoints Interim Director for Precinct 3 Nov. 22, 2021
   https://bseacd.org/uploads/ BSEACD -Board-Appoints-Interim-Director-for-Precinct-3-Unexpired-Term-1-1.pdf
- 2022 Aquatic Science Adventure Camp Application and Rules Dec. 29, 2021 <a href="https://bseacd.org/uploads/Aquatic-Science-Adventure-Camp-Application-Form-with-Texas-State-Flyer-FINAL.pdf">https://bseacd.org/uploads/Aquatic-Science-Adventure-Camp-Application-Form-with-Texas-State-Flyer-FINAL.pdf</a>
- BSEACD Board of Directors Names Tim Loftus General Manager Jan. 20, 2022 <a href="https://bseacd.org/uploads/BSEACD-Board-of-Directors-Names-Tim-Loftus-General-Manager.pdf">https://bseacd.org/uploads/BSEACD-Board-of-Directors-Names-Tim-Loftus-General-Manager.pdf</a>
- 2022 Water Well Checkup Feb. 9, 2022 https://bseacd.org/uploads/2022-Well-Water-Checkup.pdf

Link to newsletter: https://bit.ly/3qYrn17

- Board of Directors Adopts New Director Precinct Boundaries March 16, 2022 https://bseacd.org/uploads/District-Board-of-Directors-Adopts-New-Director-Precinct-Boundaries.pdf
- BSEACD Awards Aquatic Science Adventure Camp Scholarships April 18, 2022 https://bseacd.org/uploads/BSEACD-Awards-Aquatic-Science-Adventure-Camp-Scholarships-.pdf
- Regulatory Compliance Specialist Opening June 7, 2022 <a href="https://bseacd.org/uploads/Regulatory-Compliance-Specialist-Position.pdf">https://bseacd.org/uploads/Regulatory-Compliance-Specialist-Position.pdf</a>
- Aquifer District Declares Stage II Alarm Drought June 9, 2022
   <a href="https://bseacd.org/uploads/Aquifer-District-Declares-Stage-II-Alarm-Drought.pdf">https://bseacd.org/uploads/Aquifer-District-Declares-Stage-II-Alarm-Drought.pdf</a>
- BSEACD Awards Kent S. Butler Memorial Groundwater Stewardship Scholarships June 10, 2022 https://bseacd.org/uploads/BSEACD-Awards-Kent-S.-Butler-Memorial-Groundwater-Stewardship-Scholarships-.pdf
- Community Meeting on Drought-Related Topics July 15, 2022 https://bscacd.org/uploads/Community-Meeting-On-Drought-Related-Topics.pdf

Social Media: Communications and Outreach Team shares videos, educational information, scholarship information, drought-related news, and other groundwater-related topics on the District's various social media channels. The posts are included in the social media reports below.

September 2021 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-September-2021.pdf
October 2021 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-October-2021.pdf
November 2021 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-November-2021.pdf
December 2021 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-December-2021.pdf
January 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-January-2022.pdf
February 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-February-2022.pdf
March 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-March-2022.pdf
April 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-April-2022.pdf
May 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-May-2022.pdf
June 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-June-2022.pdf
July 2022 https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-July-2022.pdf
August 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-July-2022.pdf
August 2022 - https://bseacd.org/uploads/BSEACD-Social-Media-Roundup-August-2022.pdf

The District's YouTube channel provides information on drought and groundwater-related information. Videos in FY 2022 included:

District YouTube channel: https://www.youtube.com/channel/UCqiQIZ7y708Ar0yPB2Yd4Cg).

Drought Update – August 17, 2022 https://www.youtube.com/watch?v=WGiQ4-aAIWs&t=5s

Community Meeting – August 6, 2022 https://www.youtube.com/watch?v=ybwewZIdMYI&t=199s

Slug Testing Video Explainer
<a href="https://www.youtube.com/watch?v=93JRkFneiSg&t=2s">https://www.youtube.com/watch?v=93JRkFneiSg&t=2s</a>

Perspective on the Current Drought – July 27, 2022 <a href="https://www.youtube.com/watch?v=bTFhaKvB-ns">https://www.youtube.com/watch?v=bTFhaKvB-ns</a>

Drought Update/Well Monitoring – July 26, 2022 https://www.youtube.com/watch?v=HpLznZZ7QYE&t=4s

Aquifer District Declares Stage II Alarm Drought https://www.youtube.com/watch?v=wJ5KiCpog2c&t=78s

Multiport Monitor Well – Water Sample Collection https://www.youtube.com/watch?v=hhoZBmt2bas

Monitor Well Installation Part 2 https://www.youtube.com/watch?v=54xpKKo0ipg&t=107s

Happy Teacher's Day – May 3, 2022 https://www.youtube.com/watch?v=Kvp-wOY6pOE

Administrative Professionals Day – April 27, 2022 https://www.youtube.com/watch?v=Q8yClJ8PjZU Well Inspection – Regulatory Compliance Team <a href="https://www.youtube.com/watch?v=IU-YoOlq8ZE&t=36s">https://www.youtube.com/watch?v=IU-YoOlq8ZE&t=36s</a>

Aquatic Science Adventure Camp Scholarship Winners <a href="https://www.youtube.com/watch?v=GOf7PzfZzOU&t=64s">https://www.youtube.com/watch?v=GOf7PzfZzOU&t=64s</a>

Multiport Monitor Well Installation https://www.youtube.com/watch?v=yDQw4H1ZahY&t=6s

Dye Tracing Study https://www.youtube.com/watch?v=TZ-S7kRT7oM&t=69s

National Groundwater Awareness Week https://www.youtube.com/watch?v=28psb6Rvox8

2022 Well Water Check Up — Sampling Instructions https://www.youtube.com/watch?v=wpHxfqvAT6o&t=1s

The Aquifer Zone Newsletter – January 2022 https://www.youtube.com/watch?v=c8xjNhiQOfk

What is Aquifer Testing? <a href="https://www.youtube.com/watch?v=k6-0V2GfMUY&t=1s">https://www.youtube.com/watch?v=k6-0V2GfMUY&t=1s</a>

2022 Kent S. Butler Scholarship Groundwater Essay Contest <a href="https://www.youtube.com/watch?v=jNNujM27VBo">https://www.youtube.com/watch?v=jNNujM27VBo</a>

Martin Luther King Jr. Day <a href="https://www.youtube.com/watch?v=5O2jwrKMZBE">https://www.youtube.com/watch?v=5O2jwrKMZBE</a>

Drought Update – January 14, 2022 https://www.youtube.com/watch?v=4us\_MGXWY3c&t=1s

Jacobs Well – Throwback Thursday <a href="https://www.youtube.com/watch?v=wurjRyWnJp4&t=1s">https://www.youtube.com/watch?v=wurjRyWnJp4&t=1s</a>

Edwards Aquifer Recharge https://www.youtube.com/watch?v=ZOKph1R-0EY&t=18s

Edwards Aquifer Signs – Why Should You Care? https://www.youtube.com/watch?v=NL04fyqGelo

How to Check the District's Drought Status <a href="https://www.youtube.com/watch?v=7aU4mBFfKgM">https://www.youtube.com/watch?v=7aU4mBFfKgM</a>

Do I live in the District? https://www.youtube.com/watch?v=jQ0XN4AhRgM&t=1s

Drought Update – November 18, 2021 <a href="https://www.youtube.com/watch?v=ciBfVUoKZJU&t=33s">https://www.youtube.com/watch?v=ciBfVUoKZJU&t=33s</a>

Streamflow Measurement: Raw Video

https://www.youtube.com/watch?v=i J3xFOWWTE&t=1s

Science in 60 Seconds: Streamflow Measurement

https://www.youtube.com/watch?v=QgI6WVSo9kg&t=2s

Happy November

https://www.youtube.com/watch?v=SJgaTDloSuU

Throwback Thursday – What is dye tracing? https://www.youtube.com/watch?v=zRSfztjW1Qo

The Aquifer Zone Newsletter – Fall 2021 https://www.youtube.com/watch?v=JrzmzyDylg8

Onion Creek at Twin Creeks Road – October 14, 2021 https://www.youtube.com/watch?v=MLiG0QmuZ-g

Slaughter Creek at Manchaca – October 14, 2021 https://www.youtube.com/watch?v=OOmAsA3OFM4

National Fossil Day – October 13, 2021 https://www.youtube.com/watch?v=5PKJe9hkECI

Science in 60 Seconds: Downhole Video Cameras https://www.youtube.com/watch?v=SELZvhmLhlo

Trinity Downhole Camera
https://www.youtube.com/watch?v=LNNBMSOs0Jk

New BSEACD Instagram Channel https://www.youtube.com/watch?v=wGSF\_aGBmfg

Collect Rocks Day – September 16, 2021 https://www.youtube.com/watch?v=xbDimo1buwM

Science in 60 Seconds: Water Conductivity <a href="https://www.youtube.com/watch?v=ul3iPXVpZ2o">https://www.youtube.com/watch?v=ul3iPXVpZ2o</a>

Aquifer Status Update – September 9, 2021 https://www.youtube.com/watch?v=nHAMyrU7th4

Protect Your Groundwater Day – September 7, 2021 https://www.youtube.com/watch?v=ojqVHSz5exM&t=54s

BSEACD Weather Station
https://www.youtube.com/watch?v=7y\_vlAvWs0s&t=1s

**Objective 5-4.** Assist and, where feasible, incentivize individual freshwater Edwards Aquifer historic-production permittees in developing drought planning strategies to comply with drought rules, including (1) pumping curtailments by drought stage to at least 50% of the 2014 authorized use during Extreme Drought, (2) "right-sizing" authorized use over the long term to reconcile actual water demands and permitted levels, and (3) as necessary and with appropriate conditions, source substitution with alternative supplies.

#### Performance Standards

Require an updated User Conservation Plan and User Drought Contingency Plan (UCP/UDCP) from Permittees within one year of each five-year MP Adoption.

In FY 2019, the Regulatory Compliance Team worked with interns to update 136 permit records in order to incorporate updated drought planning documents into their records. According to the District MP, all permittees must update their UDCP and UCP plans at least every five years. Therefore, since all UDCPs were updated in FY 2019, staff did not update them in FY 2022.

Provide a summary of any activity related to permit right sizing or source substitution with alternative supplies that may reduce demand on the freshwater Edwards Aquifer in the Annual Report.

After notice and an opportunity for a hearing, the Board may renew a permit with a reduced amount of the authorized production if the authorized withdrawal volume is no longer commensurate with reasonable non-speculative demand, or actual production from a well is substantially less than the authorized permit amount for multiple years without any rationale that reasonably relates to efforts to utilize alternative water supplies, conserve, or improve water use efficiency. Staff typically conducts an overpumpage analysis every few years, and conducted the analysis in FY 2019, therefore staff did not conduct an overpumpage analysis in FY 2022.

The District has been actively encouraging alternative source projects to reduce the dependency on the aquifers during drought. Staff has collaborated with water suppliers on ASR projects in providing regulatory and technical guidance. Staff has been working with the City of Buda on ASR feasibility. The Ruby Ranch ASR project was approved and has been in operation since the summer of FY 2021. Staff also assisted in assessing the feasibility of Lower Trinity Aquifer for water supply.

Objective 5-5. Implement a Conservation Permit that is held by the District and accumulates and preserves withdrawals from the freshwater Edwards Aquifer that were previously authorized with historic-use status and that is retired or otherwise additionally curtailed during severe drought, for use as ecological flow at Barton Springs during Extreme Drought and thereby increase springflow for a given set of hydrologic conditions.

#### Performance Standard

A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type including the volume reserved in the freshwater Edwards Conservation Permit for ecological flows will be provided in the Annual Report.

A summary of the actual versus permitted production volumes for each MZ is provided in Objective 1-2. The amount of historical Edwards Aquifer permitted water that has been retired since 2009 is 82,025,125 gallons per year that can be targeted for a conservation permit. Additionally, 1,200,000 gallons per year of Historical Trinity Aquifer permitted water has been retired, no Conditional A permitted water has been retired.

## GOAL 6 - Addressing Conservation and Rainwater Harvesting where Appropriate and Cost-Effective

31TAC 356.52 (a)(1)(G)/TWC §36.1071(a)(7)

**Objective 6-1.** Develop and maintain programs that inform, educate, and support District permittees in their efforts to educate their end-user customers about water conservation and its benefits, and about drought-period temporary demand reduction measures.

## Performance Standards

A summary of efforts to assist permittees in developing drought and conservation messaging strategies will be provided in the Annual Report.

Each permittee is required to have an approved User Drought Contingency Plan (UDCP) that outlines conservation actions to be taken under each drought stage. Staff provides bill inserts and road signs to all permittees upon request in drought declaration to help them comply with messaging requirements set forth in the UDCP. Staff actively promotes aquifer status through eNews, press releases, the District website, and social media platforms. Permittees are encouraged to share this information with their end users. Examples of bill inserts and handouts:

- Flyer https://bseacd.org/uploads/Critical Poster18x24-1.pdf
- Mail Inserts https://bseacd.org/uploads/Critical drought bill insert.pdf
- Drought Handout <a href="https://bseacd.org/uploads/All-About-Drought-1.pdf">https://bseacd.org/uploads/All-About-Drought-1.pdf</a>
- District Brochure https://bseacd.org/uploads/Pamphlet-FINAL.pdf

In FY 2022 Alarm Drought (Stage II) Signage was put out throughout Permittee areas of the District. Included below are the areas where signs were put up:

FM 1626 – 10 signs (Austin)
FM 150 (including Rollingwood Neighborhood) – 7 signs
Wildwood Neighborhood (Austin) – 3 Signs
Hays Hills Baptist Church – 3 signs
PGMS – 7 signs
City of Mountain City – 4 signs
Sunfield Neighborhood in Buda – 4 signs
St. Mark's Episcopal Church – 3 signs
Buda/Kyle Church of Christ – 3 signs
Byron Townsend 3 signs
Byron covers Cimarron Park, Slaughter Creek Acres, and Village San Leanna

San Marcos Ranch Road – 12 signs Hilliard Area – 10 signs Publicize declared drought stages and associated demand reduction targets monthly in eNews bulletins and continuously on the District website.

In FY 2022, the Water Well Checkup Program resumed for permittees. The District teamed up with Texas A&M Agrilife Extension and Texas Well Owner Network to provide Water Well Checkups for District well owners. The cost of the water analysis was covered by the District for the first fifty well owners to pick up a water kit. The samples were taken to Luling for analysis. Results were physically mailed to well owners and emailed. Over twenty-five permittees took part in the program.

The District was in Stage II Alarm Drought from June 9, 2022, through October 19, 2022. Prior to the District declaring Alarm Drought, the regular Water Conservation Period, which extends from May through September, was shared on the District's website social media channels, and through eNews.

Drought status updates are shared across all District social media channels (Twitter, YouTube, Facebook, Instagram, Nextdoor). The Lovelady and Barton Springs levels are shared a few times a month on the District's social media channels and website to let permittees and the general audience know how high or low the levels or going, and also when the District may cross into the next drought stage.

In addition, drought status information has been shared in a new monthly drought report sent out to permittees/subscribers through eNews. The report is then shared on the District's social media channels and website.

Conservation education webpages were updated regularly with new resources, and shared on District social media platforms. Free educational handouts, well owner education, and information on well analysis is provided on the District website and has been shared on social media. There are also hard copies in the office.

See Objective 5-3 for a summarized list of Articles, Press Releases, Drought Reports, Social Media Reports, and Videos.

Objective 6-2. Encourage use of conservation-oriented rate structures by water utility permittees to discourage egregious water demand by individual end-users during declared drought.

## Performance Standard

On an annual basis, the District will provide an informational resource or reference document to all public water supply permittees to serve as resources related to conservation best management strategies and conservation-oriented rate structures.

The District is part of the CTWEN and sponsors the annual Water Conservation Symposium. Permittees are encouraged to attend. The symposium provides water utilities with the information needed to implement successful water conservation programs, effectively engage customers, and plan for the future. This program provides conservation-oriented strategies (including conservation-oriented rate structures) for mayors, city councils, board members of Municipal Utility Districts (MUDs), Regional Water Authorities, City Managers, Water Utility directors and staff, water conservation managers, program staff and other relevant staff, CFOs, finance directors, sustainability directors, business and community leaders, consultants, and advocates.

**Objective 6-3.** Develop and maintain programs that educate and inform District groundwater users and constituents of all ages about water conservation practices and the use of alternate water sources such as rainwater harvesting, gray water, and condensate reuse.

## Performance Standard

Summarize water conservation related newsletter articles, press releases, and events in the Annual Report. Summary will describe the preparation and dissemination of materials shared with District groundwater users and area residents that inform them about water conservation and alternate water sources.

The District sponsors and supports a number of events promoting water conservation and alternate water sources such as the Central Texas Water Conservation Symposium, Austin Cave Festival, Well Water Check-Up, LBJ Wildflower Center (LBJWFC) Nature Nights Rocks-Water-Mud, City of Buda Trash-Off, City of Sunset Valley Public Works Open House, Explorers Guide to the Hill Country Oasis, and Groundwater to the Gulf: A Summer Institute for Educators. Conservation education webpages were updated regularly with new resources, and shared on District social media platforms. The District also created a District Newsroom website page with all news/conservation/drought related information.

See Objective 5-3 for a list of summarized Articles and Press Releases.

## GOAL 7 - ADDRESSING RECHARGE ENHANCEMENT WHERE APPROPRIATE AND COST-EFFECTIVE

31TAC 356.52 (A)(1)(G)/TWC §36.1071(A)(7)

**Objective 7-1.** Improve recharge to the freshwater Edwards Aquifer by conducting studies and, as feasible and allowed by law, physically altering (cleaning, enlarging, protecting, diverting surface water) discrete recharge features that will lead to an increase in recharge and water in storage beyond what otherwise would exist naturally.

## Performance Standard

Maintaining the functionality of the Antioch system will be the principal method for enhancing recharge to the freshwater Edwards Aquifer. Additional activities may be excavating sinkholes and caves within the District. A summary of all recharge improvement activities will be provided in the Annual Report.

Antioch Cave is a recharge feature on District property that is capable of contributing a significant amount of water to the Edwards Aquifer when Onion Creek is flowing. A vault constructed over the cave entrance, and automated valves allow for clean creek water to enter the cave, and contaminated stormwater to be kept out. This system was maintained by staff in FY 2022 so that the amount of clean creek water entering the cave was maximized. A regular reporting item has been added to the GM Report special topics list to provide a monthly oral update on these and other Aquifer Science activities, and satisfies this reporting requirement.

Operational equipment and hardware at Antioch Cave to improve the operation and performance of the BMP are fully functional and in good performance. Equipment is collecting water-quality readings every 15 minutes and reporting to an organized database via telemetry.

Objective 7-2. Conduct technical investigations and, as feasible, assist water-supply providers in implementing engineered enhancements to regional supply strategies, including desalination, ASR, effluent reclamation and re-use, and recharge enhancement of surface water (including floodwater) to increase the options for water-supply substitution and reduce dependence on the Aquifer.

## Performance Standard

Assess progress toward enhancing regional water supplies.

In FY 2022, the District worked with other entities in the area, such as the City of Buda and RRWSC, to evaluate the potential for the Trinity Aquifers as reservoirs for ASR facilities. See above section: Objective 3-2 for a brief summary of staff's work with Buda WSC on their ASR pilot testing program.

https://bscacd.org/uploads/RubyRanchASR\_Status-Report\_FINAL.pdf

## GOAL 8 - ADDRESSING THE DESIRED FUTURE CONDITIONS OF THE GROUNDWATER RESOURCES

31TAC (A)(1)(H)/TWC §36.1071(A)(8)

Objective 8-1. Freshwater Edwards Aquifer All-Conditions DFC: Adopt rules that restrict, to the greatest extent practicable, the total amount of groundwater authorized to be withdrawn annually from the Aquifer to an amount that will not substantially accelerate the onset of drought conditions in the Aquifer; this is established as a running seven-year average springflow at Barton Springs of no less than 49.7 cfs during average recharge conditions.

## Performance Standards

A. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type will be provided in the Annual Report.

A summary of the actual versus permitted production volumes for each MZ is provided in Objective 1-2.

B. Upon ITP issuance, the HCP annual report documenting the District's activities and compliance with ITP permit requirements will be incorporated into the Annual Report by reference.

The USFWS issued the District's ITP in September 2018. The District submitted its third annual report to USFWS on February 16, 2022.

C. Upon ITP issuance, compile a summary of aquifer data including: 1) the frequency and duration of District-declared drought, 2) levels of the Aquifer as measured by springflow and indicator wells (including temporal and spatial variations), and 3) total annual and daily discharge from Barton Springs will be provided in the Annual Report.

FY 2022 began with a No Drought status and remained that way until June 9, 2022 when the Board declared Stage II Alarm drought, effective July 1, 2022. The fiscal year ended in Stage II Alarm drought status.

Discharge at Barton Springs was 66.9 cfs on September 1, 2021 and 28.1 cfs on August 31, 2022. The depth to water level (feet below land surface) at the Lovelady monitoring well began the fiscal year at 163.49 feet and ended the fiscal year at 187.73, a decline of 24.24 feet.

Objective 8-2. Freshwater Edwards Aquifer Extreme Drought DFC: Adopt rules that restrict, to the greatest extent practicable and as legally possible, the total amount of groundwater withdrawn monthly from the aquifer during Extreme Drought conditions in order to minimize take and avoid jeopardy of the Covered Species as a result of the Covered Activities, as established by the best science available. This is established as a limitation on actual withdrawals from the aquifer to a total of no more than 5.2 cfs on an average annual (curtailed) basis during Extreme Drought, which will produce a minimum springflow of not less than 6.5 cfs during a recurrence of the drought of record (DOR).

## Performance Standards

A. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each MZ and permit type will be provided in the Annual Report.

A summary of the actual versus permitted production volumes for each MZ is provided above in Objective 1-2.

B. Upon ITP issuance, the HCP annual report documenting the District's activities and compliance with ITP permit requirements, will be incorporated into the Annual Report by reference.

The USFWS issued the District's ITP in September 2018. The District submitted its third annual report to USFWS on February 16, 2022.

C. Upon ITP issuance, compile a summary of aquifer data including: 1) the frequency and duration of District-declared drought, 2) levels of the Aquifer as measured by springflow and indicator wells (including temporal and spatial variations), and 3) total annual and daily discharge from Barton Springs will be provided in the Annual Report.

Please see Objective 8-1 above.

**Objective 8-3.** Implement appropriate rules and measures to ensure compliance with District-adopted DFCs for each relevant aquifer or aquifer subdivision in the District.

## Performance Standard

Develop and implement a cost-effective method for evaluating and demonstrating compliance with the DFCs of the relevant aquifers in the District, in collaboration with other GCDs in the GMAs. Prior to method implementation, provide a summary of activities related to method development in the Annual Report. Once developed, provide a summary of data for each District-adopted DFC for each relevant aquifer indicating aquifer conditions relative to the DFC, and provide in the Annual Report.

For the Trinity Aquifer in GMA 10, to determine compliance with the Trinity Aquifer DFC, the data must show that the average regional well drawdown does not exceed 25 feet during average recharge conditions including exempt and nonexempt use. GMA 10 is without a means to monitor "average regional drawdown across the planning area. The District made progress in FY 2022 with an in-house numerical model that will help to inform drawdown (within the District) under a variety of conditions. One such scenario is pumping in response to the extant network of Trinity wells in combination with a drought-of-record. Results are expected in early FY 2023.

As reported last year, the average daily springflow at Barton Springs over the time period of September 1, 2014 to August 31, 2021 was 77 cfs. For the fiscal year 2022 just ended and the seven years beginning September 1, 2015, the average daily springflow declined 2 cfs to 75 cfs. Precipitation during the seven years ending August 31, 2021 was greater in Hays and Travis counties than during the seven years ending August 31, 2022. Which of the two seven-year periods best reflects average recharge conditions is uncertain without considerably more data analysis.

## The DFC expression is:

"Springflow at Barton Springs during average recharge conditions shall be no less than 49.7 cfs averaged over an 84-month (7-year) period; and during extreme drought conditions including those as severe as a recurrence of the 1950's drought of record, springflow at Barton Springs shall be no less than 6.5 cfs average on a monthly basis."

For the Saline Edwards, Northern Subdivision, the DFC expression is no more than 75 feet of regional average potentiometric surface drawdown due to pumping when compared to pre-development conditions. Currently, there are no approved permits in the Saline Edwards.

For a summary of aquifer conditions, see Objective 8-1 above.

## Performance Standards and Objectives

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General	Administration	Education & Outreach	Aquifer Science	Regulatory Compliance
Management	(3 objectives)	(6 objectives)	(8 objectives)	(7 objectives)
(9 objectives)				

## GOAL 1 - Providing the Most Efficient Use of Groundwater – 31 TAC 356.52(a)(1)(A)/TWC §36.1071(a)(1)

	Management Plan Objectives	Performance Standards
1.1	Provide and maintain on an ongoing basis a sound statutory, regulatory, financial, and policy framework for continued District operations and programmatic needs.	<ul> <li>A. Develop, implement, and revise as necessary, the District Management Plan in accordance with state law and requirements. Each year, the Board will evaluate progress towards satisfying the District goals. A summary of the Board evaluation and any updates or revisions to the management plan will be provided in the <u>annual report</u>.</li> <li>B. Review and modify District Rules as warranted to provide and maintain a sound statutory basis for continued District operations and to ensure consistency with both District authority and programmatic needs. A summary of any rule amendments adopted in the previous fiscal year will be included in the previous fiscal year will be included in the previous fiscal year.</li> </ul>
1-2	Monitor aggregated use of various types of water wells in the District, as feasible and appropriate, to assess overall groundwater use and trends on a continuing basis.	Monitor annual withdrawals from all nonexempt wells through required monthly or annual meter reports to ensure that groundwater is used as efficiently as possible for beneficial use. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each Management Zone and permit type will be provided in the annual report.
1-3	Evaluate quantitatively at least every five years the amount of groundwater withdrawn by exempt wells in the District to ensure an accurate accounting of total withdrawals in a water budget that includes both regulated and non-regulated withdrawals, so that appropriate groundwater management actions are taken.	<ul> <li>A. Provide an estimate of groundwater withdrawn by exempt wells in the District using TDLR and TWDB databases and District well records, and update the estimate every five years with the District's management plan updates.</li> <li>B. In the interim years between management plan updates, the most current estimates of exempt well withdrawals will be included in a summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each Management Zone and permit type that will be provided in the annual report.</li> </ul>
14	Develop and maintain programs that inform and educate citizens of all ages about groundwater and springflow-related matters, which affect both water supplies and salamander ecology.	<ul> <li>A. Publicize District drought trigger status (Barton Springs 10-day average discharge and Lovelady Monitor Well water level) in monthly eNews bulletins and continuously on the District website.</li> <li>B. Provide summaries of associated outreach and education programs, events, workshops, and meetings in the monthly team activity reports in the publicly-available Board backup.</li> <li>C. A summary of outreach activities and estimated reach will be provided in the annual report.</li> </ul>

		6.00	
1-5	Ensure responsible and effective management	Ä	Receive a clean financial audit each year. A copy of the auditor's report will be included in the
	of District finances such that the District has the	α	annual report. Timely develop and approve fiscal-year hudgets and amendments. The dates for public hearings
	near-term and long-term linancial means to	<b>.</b>	יווינין מריניסף מויני מאריניים לאריניים לאריניים מיני מויני מוינים מיני מוינים מינים
V.	support its mission.		and Board approval of the budget and any amendments will be provided in the annual report.
1-6	Provide efficient administrative support and	Ą	Maintain, retain, and control all District records in accordance with the Texas State Library and
	infrastructure, such that District operations are		Archives Commission-approved District Records Retention Schedule to allow for safekeeping and
	executed reliably and accurately, meet staff and		efficient retrieval of any and all records, and annually audit records for effective management of use,
	local stakeholder needs, and conform to District		maintenance, retention, preservation and disposal of the records' life cycle as required by the Local
	policies and with federal and state		Government Code. A summary of records requests received under the PIA, any training provided to
	requirements.		staff or directors, or any claims of violation of the Public Information Act will be provided in the
			annual report.
		മ	Develop, post, and distribute District Board agendas, meeting materials, and backup documentation in
			a timely and required manner; post select documents on the District website, and maintain official
			records, files, and minutes of Board meetings appropriately. A summary of training provided to staff
			or directors or any claims of violation of the Open Meetings Act will be provided in the annual report.
1-7	Manage and coordinate electoral process for	Ensi	Ensure elections process is conducted and documented in accordance with applicable requirements and
	Board members.	time	timelines. Elections documents will be maintained on file and a summary of elections-related dates and
		acti	activities will be provided in the annual report for years when elections occur.

## GOAL 2 - Controlling and Preventing Waste of Groundwater – 31 TAC 356.52(a)(1)(B)/TWC §36.1071(a)(2))

	Management Plan Objectives	Performance Standards
2-1	Require all newly drilled exempt and	A summary of the number and type of applications processed and approved for authorizations, permits,
	nonexempt wells, and all plugged wells to be	and permit amendments including approved use types and commensurate permit volumes for production
	registered and to comply with applicable	permits and amendments will be provided in the annual report.
	District Rules, including Well Construction	
	Standards.	
2-2	Ensure permitted wells and well systems are	A. Inspect all new wells for compliance with the Rules, and Well Construction Standards, and provide a
	operated as intended by requiring reporting of	summary of the number and type of inspections or investigations in the annual report.
	periodic meter readings, making periodic	B. Provide a summary of the volume of aggregate groundwater withdrawals permitted and actually
	inspections of wells, and reviewing pumpage	produced from permitted wells for each Management Zone and permit type in the annual report.
	compliance at regular intervals that are	
	meaningful with respect to the existing aquifer	
	conditions.	
2-3	Provide leadership and technical assistance to	A. In even-numbered fiscal years, provide a summary of interim legislative activity and related District
	government entities, organizations, and	efforts in the annual report. In odd-numbered fiscal years, provide a legislative debrief to the Board
	individuals affected by groundwater-utilizing	on bills of interest to the District and provide a summary in the annual report.
	land use activities, including support of or	B. Provide a summary of District activity related to other land use activities affecting groundwater in the
	opposition to legislative initiatives or projects	annual report.
	that are inconsistent with this objective.	
2-4	Ensure all firm-yield production permits are	A summary of the number and type of applications processed and approved for authorizations, permits,
	evaluated with consideration given to the	and permit amendments including approved use types and commensurate permit volumes for production
S.V.	demand-based permitting standards including	permits and amendments will be provided in the annual report.
, K	verification of beneficial use that is	
	commensurate with reasonable non-speculative	
H.	demand.	

## GOAL 3 - Addressing Conjunctive Surface Water Management Issues – 31 TAC 356.52(a)(1)(D)/TWC §36.1071(a)(4)

	Management Plan Objectives	Performance Standards
3-1	Assess the physical and institutional availability	Identify available alternative water resources and supplies that may facilitate source substitution and
	of existing regional surface water and	reduce demand on the Edwards Aquifer, while increasing regional water supplies, and evaluate feasibility
	alternative groundwater supplies and the	by considering:
	feasibility of those sources as viable	1. available/proposed infrastructure,
	supplemental or substitute supplies for District	2. financial factors,
	groundwater users.	3. logistical/engineering factors, and
		4. potential secondary impacts (development density/intensity or recharge water quality).
		A summary of District activity related to this objective will be provided in the annual report.
3-2	Encourage and assist District permittees to	Identify available alternative water resources and supplies that may facilitate source substitution and
	diversify their water supplies by assessing the	reduce demand on the Edwards Aquifer, while increasing regional water supplies, and evaluate feasibility
	feasibility of alternative water supplies and	by considering:
3010	fostering arrangements with currently available	1. available/proposed infrastructure,
200	alternative water suppliers.	2. financial factors,
		3. logistical/engineering factors, and
		4. potential secondary impacts (development density/intensity or recharge water quality).
		A summary of District activity related to this objective will be provided in the annual report.
3-3	Demonstrate the importance of the relationship	A. Provide summaries of associated outreach and education programs, events, workshops, and meetings
	between surface water and groundwater, and	in the monthly team activity reports in the publicly-available Board backup.
	the need for implementing prudent conjunctive	B. Summarize outreach activities and estimate reach in the annual report.
	use through educational programs with	
	permittees and public outreach programs.	
3-4	Actively participate in the regional water	Regularly attend regional water planning group meetings and annually report on meetings attended.
	planning process to provide input into policies,	
	planning elements, and activities that affect the	
d	aquifers managed by the District.	

## GOAL 4 - Addressing Natural Resource Issues which Impact the Use and Availability of Groundwater, and which are Impacted by the Use of Groundwater - 31 TAC 356.52 (a)(1)(E)/TWC §36.1071(a)(5)

	Management Plan Objectives	Performance Standards
4-1	Assess ambient conditions in District aquifers	A. Review water-level and water-quality data that are maintained by the District and/or TWDB, or other
	on a recurring basis by:	agencies, on a regular basis.
	1. sampling and collecting groundwater data	8. Improve existing analytical or numerical models or work with other organizations on analytical or
W	from selected wells and springs monthly;	numerical models that can be applied to the aquifers in the District.
	2. conducting scientific investigations as	C. A review of the data mentioned above will be assessed for significant changes and reported in the
	indicated by new data and models to better	annual report.
	determine groundwater availability for the	
	District aquifers; and	
	3. conducting studies as warranted to help	
	increase understanding of the aquifers and,	
	to the extent feasible, detect possible	
	threats to water quality and evaluate their	
	consequences.	
4-2	Evaluate site-specific hydrogeologic data from	This involves evaluations of certain production permit applications for the potential to cause unreasonable
1050	applicable production permits to assess	impacts as defined by District rule. To evaluate the potential for unreasonable impacts, staff will:
	potential impact of withdrawals to	A. Perform a technical evaluation of the application, aquifer test, and hydrogeological report;
	groundwater quantity and quality, public health	B. Use best available science and analytical tools to estimate amount of drawdown from pumping and
	and welfare, contribution to waste, and	influence on other water resources; and
	unreasonable well interference.	C. Recommend proposed permit conditions to the Board for avoiding unreasonable impacts if
		warranted.
		A list of permit applications that are determined to have potential for unreasonable impacts will be
		provided in the <u>annual report</u> .
4-3	Implement separate management zones and, as	A. Increase the understanding of District aquifers by assessing aquifer conditions, logging wells, and
	warranted, different management strategies to	collecting water quality data. A summary of the number of water quality samples performed will be
	address more effectively the groundwater	provided in the <u>annual report</u> .
	management needs for the various aquifers in	B. A summary of the volume of aggregate groundwater withdrawals permitted and actually produced
	the District.	from permitted wells for each Management Zone and permit type will be provided in the annual
		report.

4-4	Actively participate in the joint planning	Attend at least 75% of the GMA meetings and annually report on meetings attended, GMA decisions on
	processes for the relevant aquifers in the	DFCs, and other relevant GMA business.
	District to establish and refine Desired Future	
	Conditions (DFCs) that protect the aquifers and	
	the Covered Species of the District HCP.	
4-5	Implement the measures of the District Habitat	Prior to ITP permit issuance, a progress report summarizing activities related to the USFWS review of the
	Conservation Plan (HCP) and Incidental Take	ITP application will be provided in the annual report. Upon ITP issuance, the HCP annual report
	Permit (ITP) from the U.S. Fish & Wildlife	documenting the District's activities and compliance with ITP permit requirements will be incorporated
	Service (USFWS) for the covered species and	into the <u>annual report</u> by reference.
	covered activity to support the biological goals	
	and objectives of the HCP.	

## GOAL 5 - Addressing Drought Conditions – 31 TAC 356.52 (a)(1)(F)/TWC §36.1071(a)(6)

	Management Plan Objectives	Performance Standards
5-1	Adopt and keep updated a science-based	A. During periods of District-declared drought, prepare a drought chart at least monthly to report the
	drought trigger methodology, and frequently	stage of drought and the conditions that indicate that stage of drought. During periods of non-drought,
	monitor drought stages on the basis of actual	prepare the drought charts at least once every three months.
10	aquifer conditions, and declare drought	B. A summary of the drought indicator conditions and any declared drought stages and duration will be
	conditions as determined by analyzing data	provided in the <u>annual report</u> .
	from the District's defined drought triggers and	
	from existing and such other new drought-	
	declaration factors, especially the prevailing DO	
	concentration trends at the spring outlets, as	
	warranted.	
2-5	Implement a drought management program	During District-declared drought, enforce compliance with drought management rules to achieve overall
	that step-wise curtails freshwater Edwards	monthly pumpage curtailments within 10% of the aggregate curtailment goal of the prevailing drought
	Aquifer use to at least 50% by volume of 2014	stage. A monthly drought compliance report for all individual permittees will be provided to the Board
	authorized aggregate monthly use during	during District-declared drought, and a summary will be included in the annual report.
	Extreme Drought, and that designs/uses other	
	programs that provide an incentive for	
	additional curtailments where possible. For all	
	other aquifers, implement a drought	
	management program that requires mandatory	
	monthly pumpage curtailments during District-	
	declared drought stages.	
5-3	Inform and educate permittees and other well	A. During District-declared drought, publicize declared drought stages and associated demand reduction
	owners about the significance of declared	targets in monthly eNews bulletins and continuously on the District website.
	drought stages and the severity of drought, and	B. A summary of drought and water conservation related newsletter articles, press releases, and drought
uh g	encourage practices and behaviors that reduce	updates sent to Press, Permittees, Well Owners and eNews subscribers will be provided in the annual
	water use by a stage-appropriate amount.	report.

24	Assist and, where feasible, incentivize individual freshwater Edwards Aquifer historic-production	<ul> <li>A. Require an updated UCP/UDCP from Permittees within one year of each five-year Management Plan Adoption.</li> </ul>
	permittees in developing drought planning	B. Provide a summary of any activity related to permit right sizing or source substitution with alternative
	strategies to comply with drought rules,	supplies that may reduce demand on the freshwater Edwards Aquifer in the annual report.
	including:	
	1. pumping curtailments by drought stage to	
	at least 50% of the 2014 authorized use	
	during Extreme Drought,	
	2. "right-sizing" authorized use over the long	
	term to reconcile actual water demands	
	and permitted levels, and	
M E	3. as necessary and with appropriate	
	conditions, the source substitution with	
	alternative supplies.	
5-5	Implement a Conservation Permit that is held by	A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from
	the District and accumulates and preserves	permitted wells for each Management Zone and permit type including the volume reserved in the
	withdrawals from the freshwater Edwards	freshwater Edwards Conservation Permit for ecological flows will be provided in the annual report.
	Aquifer that were previously authorized with	
	historic-use status and that is retired or	
	otherwise additionally curtailed during severe	
	drought, for use as ecological flow at Barton	
	Springs during Extreme Drought and thereby	
	increase springflow for a given set of hydrologic	
	conditions.	

## GOAL 6 - Addressing Conservation and Rainwater Harvesting where Appropriate and Cost-Effective – 31TAC 356.52 (a)(1)(G)/TWC §36.1071(a)(7)

	Management Plan Objectives	Performance Standards
6-1	Develop and maintain programs that inform, educate, and support District permittees in their efforts to educate their end-user customers about water conservation and its benefits, and about drought-period temporary demand reduction measures.	<ul> <li>A. A summary of efforts to assist permittees in developing drought and conservation messaging strategies will be provided in annual report.</li> <li>B. Publicize declared drought stages and associated demand reduction targets monthly in eNews bulletins and continuously on the District website.</li> </ul>
6-2	Encourage use of conservation-oriented rate structures by water utility permittees to discourage egregious water demand by individual end-users during declared drought.	On an annual basis, the District will provide an informational resource or reference document to all Public Water Supply permittees to serve as resources related to conservation best management strategies and conservation-oriented rate structures.
6-3	Develop and maintain programs that educate and inform District groundwater users and constituents of all ages about water conservation practices and the use of alternate water sources such as rainwater harvesting, gray water, and condensate reuse.	Summarize water conservation related newsletter articles, press releases, and events in the <u>annual report</u> . Summary will describe the preparation and dissemination of materials shared with District groundwater users and area residents that inform them about water conservation and alternate water sources.

## GOAL 7 - Addressing Recharge Enhancement where Appropriate and Cost-Effective – 31TAC 356.52 (a)(1)(G)/TWC §36.1071(a)(7)

	Management Plan Objectives	Performance Standards
7-1	Improve recharge to the freshwater Edwards Aquifer by conducting studies and, as feasible and allowed by law, physically altering (cleaning, enlarging, protecting, diverting surface water to) discrete recharge features that will lead to an increase in recharge and water in storage beyond what otherwise would exist naturally.	Maintaining the functionality of the Antioch system will be the principal method for enhancing recharge to the freshwater Edwards Aquifer. Additional activities may be excavating sinkholes and caves within the District. A summary of all recharge improvement activities will be provided in the annual report.
7-2	Conduct technical investigations and, as feasible, assist water-supply providers in implementing engineered enhancements to regional supply strategies, including desalination, aquifer storage and recovery, effluent reclamation and re-use, and recharge enhancement of surface water (including floodwater) to increase the options for watersupply substitution and reduce dependence on the Aquifer.	Assess progress toward enhancing regional water supplies in the <u>annual report</u> .

# GOAL 8 - Addressing the Desired Future Conditions of the Groundwater Resources – 31TAC (a)(1)(H)/TWC §36.1071(a)(8)

	Management Plan Objectives	Perf	Performance Standards
8-1	Freshwater Edwards Aquifer All-Conditions	Ą	A summary of the volume of aggregate groundwater withdrawals permitted and actually produced
	<b>DFC</b> : Adopt rules that restrict, to the greatest		rom permitted wells for each Management Zone and permit type will be provided in the annual
	extent practicable, the total amount of	_1	eport.
	groundwater authorized to be withdrawn	B.	Jpon ITP issuance, the HCP annual report documenting the District's activities and compliance with
	annually from the Aquifer to an amount that	_	TP permit requirements will be incorporated into the annual report by reference.
	will not substantially accelerate the onset of	ن	Jpon ITP issuance, compile a summary of aquifer data including: 1) the frequency and duration of
	drought conditions in the Aquifer; this is	_	District-declared drought, 2) levels of the Aquifer as measured by springflow and indicator wells
	established as a running seven-year average	_	including temporal and spatial variations), and 3) total annual and daily discharge from Barton Springs
	springflow at Barton Springs of no less than 49.7		will be provided in the <u>annual report</u> .
	cfs during average recharge conditions.		

I		-		
	Freshwater Edwards Aquifer Extreme Drought DFC: Adopt rules that restrict, to the greatest extent practicable and as legally possible, the total amount of groundwater withdrawn monthly from the Aquifer during Extreme Drought conditions in order to minimize take and avoid jeopardy of the Covered Species as a	è ю і	A summary of the volume of aggregate groundwater withdrawals permitted and actually produced from permitted wells for each Management Zone and permit type will be provided in the <u>annual report</u> .  Upon ITP issuance, the <u>HCP annual report</u> documenting the <u>District's activities and compliance with ITP permit requirements will be incorporated into the <u>annual report</u> by reference. Upon ITP issuance, compile a summary of aquifer data including: 1) the frequency and duration of District-declared drought, 2) levels of the Aquifer as measured by springflow and indicator wells</u>	10.00
	result of the Covered Activities, as established by the best science available. This is established as a limitation on actual withdrawals from the Aquifer to a total of no more than 5.2 cfs on an average annual (curtailed) basis during Extreme Drought, which will produce a minimum springflow of not less than 6.5 cfs during a recurrence of the drought of record (DOR).		(including temporal and spatial variations), and 3) total annual and daily discharge from Barton Springs will be provided in the <u>annual report</u> .	
	Implement appropriate rules and measures to ensure compliance with District-adopted DFCs for each relevant aquifer or aquifer subdivision in the District.	Dev DFC DFC met	Develop and implement a cost-effective method for evaluating and demonstrating compliance with the DFCs of the relevant aquifers in the District, in collaboration with other GCDs in the GMAs. Prior to method implementation, provide a summary of activities related to method development in the annual report. Once developed, provide a summary of data for each District-adopted DFC for each relevant aquifer indicating aquifer conditions relative to the DFC and provide in the annual report.	1,00000 0.00

## Item 6

## **Board Discussions and Possible Actions**

c. Discussion and possible action related to the performance and compliance of District permittees with their User Drought Contingency Plan curtailments.

## Item 6

## **Board Discussions and Possible Actions**

d. Discussion and possible action related to the election of Board Officers.

## Item 7

## **Director's Reports**

## Directors' Reports.

Directors may report on their involvement in activities and dialogue that are of likely interest to the Board, in one or more of the following topical areas:

- Meetings and conferences attended or that will be attended;
- Committee formation and updates;
- Conversations with public officials, permittees, stakeholders, and other constituents;
- Commendations; and
- Issues or problems of concern.

## Item 8 Adjournment