



**BOARD OF DIRECTORS
REGULAR MEETING**

**TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1
100 MUNICIPAL DRIVE
TROPHY CLUB, TEXAS 76262**

Tuesday, July 27, 2021

6:00 P.M.

Svore Municipal Boardroom

REGULAR MEETING AGENDA PACKET

CALL TO ORDER AND ANNOUNCE A QUORUM

CITIZEN COMMENTS

This is an opportunity for citizens to address the Board on any matter whether or not it is posted on the agenda. The Board is not permitted to take action on or discuss any comments made to the Board at this time concerning an item not listed on the agenda. The Board will hear comments on specific agenda items prior to the Board addressing those items. You may speak up to four (4) minutes or the time limit determined by the President or presiding officer. To speak during this item, you must complete the Speaker's form that includes the topic(s) of your statement. Citizen Comments should be limited to matters over which the Board has authority.

REPORTS & UPDATES

1. Staff Reports
 - a. Capital Improvement Projects
 - b. Water Operations Report
 - c. Wastewater System Reports
 - d. Finance Reports

[attachments: Staff Reports](#)

CONSENT AGENDA

All matters listed as Consent Agenda are considered to be routine by the Board of Directors and will be enacted by one motion. There will not be a separate discussion of these items. If discussion is desired, that item will be removed from the consent agenda and will be considered separately.

2. Consider and act to approve the Consent Agenda.
 - a. June 2021 Combined Financials
 - b. June 16, 2021 Regular Meeting Minutes
 - c. Quarterly Investment Report – 3rd Quarter FY2021
 - d. Tax Collection Report – 3rd Quarter FY2021

[attachments: Combined Financials](#)

[June 16, 2021 Regular Meeting Minutes](#)

[Quarterly Investment Report](#)

[Tax Collection Report](#)

REGULAR SESSION

3. Receive update on Risk and Resiliency Assessment from Halff Associates and take appropriate action related thereto.

[attachment: Risk & Resilience Assessment](#)

4. Consider and take appropriate action to award bid and approve Contract No. 2021072701 for construction of Interconnect Waterline Project and authorize the General Manager to execute the construction contract documents.

[attachments: Bid Tab](#)

[Letter of recommendation](#)

5. Consider and take appropriate action to adopt Order No. 2021-0727A Declaring certain scrap metal to be Surplus Property and Authorizing the Disposition Thereof.

[attachment: Order No. 2021-0727A](#)

6. Consider and act to approve Resolution No. 2021-0727A Amending the Fiscal Year 2021 Budget.

[attachments: GASB54 Balances and Capital Projects](#)

[Resolution No. 2021-0727A Amending Fiscal Year 2021 Budget](#)

7. Consider and act to approve Master Service Agreement with Garver, LLC for Professional Engineering Services and authorize the General Manager to execute the contract.

[attachment: Garver Standard MSA](#)

EXECUTIVE SESSION

8. Pursuant to Section 551.071 of the Texas Open Meetings Act, the Board may consult with its attorney in Executive Session on a matter in which the duty of the attorney to the Governmental Body under the Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Open Meetings Act or to seek advice of counsel on legal matters involving pending or contemplated litigation or settlement offers:

- a. Consult with legal counsel regarding the existing Interlocal Cooperation Agreement for Administration of Fire Protection Services between the District and the Town of Trophy Club, and seek legal advice regarding the potential renewal, termination, modification, or replacement thereof.

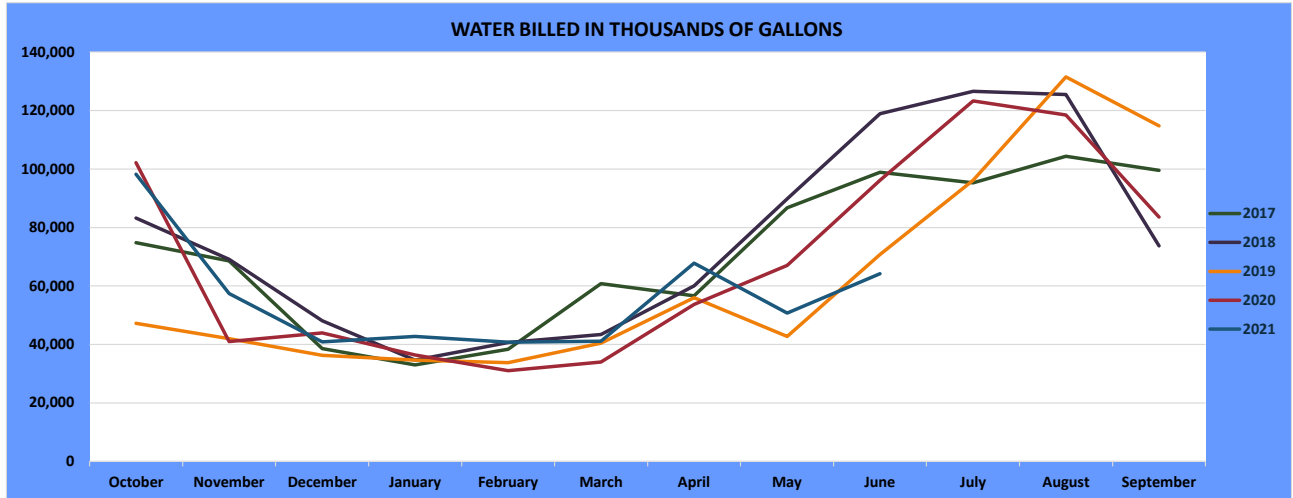
9. Deliberations pursuant to Section 551.074(a)(1) of the Texas Open Meetings Act regarding appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee: General Manager annual review.

REGULAR SESSION

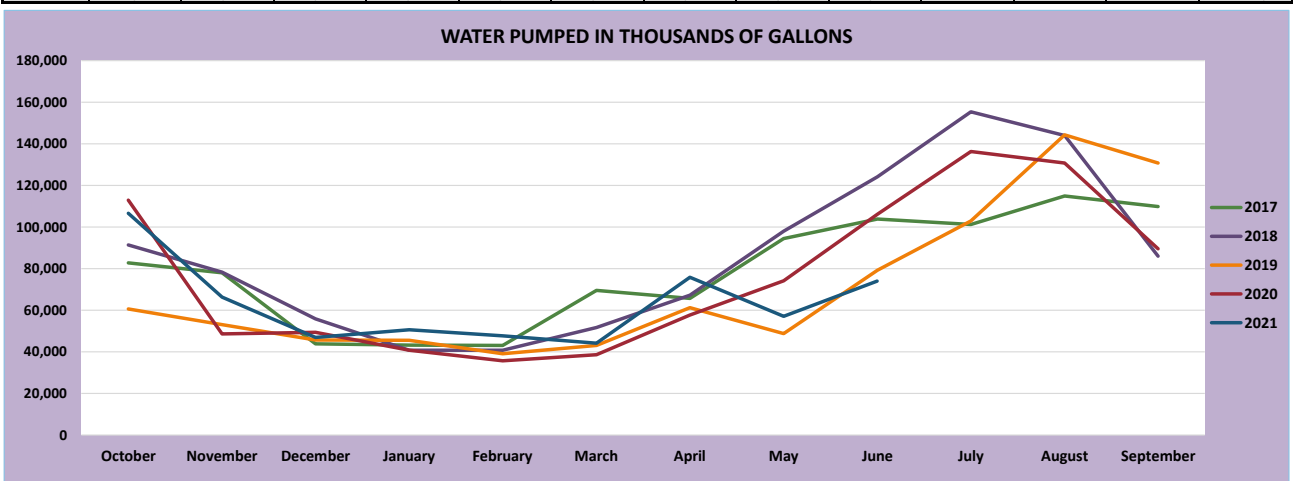
10. Consider and take appropriate action regarding matters discussed in Executive Session, including action relating to the renewal, termination, modification, or replacement of the Interlocal Cooperation

Monthly Water Operations Report

Water Billed													
FY	October	November	December	January	February	March	April	May	June	July	August	September	Total Year
2011	70,502	50,909	44,365	35,983	27,845	55,972	69,165	61,467	99,326	117,707	170,464	123,692	927,397
2012	85,869	53,571	40,815	30,616	31,665	35,263	47,194	84,905	114,104	137,174	144,573	108,622	914,371
2013	85,488	75,251	48,527	39,601	34,450	43,137	56,947	76,542	85,312	110,072	130,945	114,497	900,769
2014	82,660	48,813	34,482	39,767	37,085	54,794	66,337	84,384	99,240	92,913	113,135	110,873	864,483
2015	90,994	58,986	49,607	36,162	38,776	30,566	46,543	39,576	60,731	100,622	139,441	123,886	815,890
2016	108,951	41,936	39,028	39,622	44,551	49,498	55,181	50,827	65,390	115,687	119,611	98,945	829,227
2017	74,785	68,638	38,580	33,028	38,380	60,841	56,683	86,794	98,864	95,355	104,303	99,541	855,792
2018	83,228	69,099	48,144	34,592	40,658	43,411	60,079	89,802	118,899	126,588	125,531	73,735	913,766
2019	47,193	41,933	36,244	34,604	33,740	40,421	55,970	42,773	70,747	96,174	131,472	114,784	746,055
2020	102,150	40,988	43,946	36,418	31,000	34,047	53,755	67,030	96,195	123,309	118,522	83,570	830,930
2021	98,232	57,380	40,841	42,725	40,786	41,078	67,776	50,736	64,195				503,749



Water Pumped													
FY	October	November	December	January	February	March	April	May	June	July	August	September	Total Year
2011	70,502	50,993	44,220	33,789	36,053	54,775	71,306	63,500	116,350	152,002	169,621	117,190	980,301
2012	83,750	54,245	41,650	34,740	31,581	46,519	62,649	100,402	110,324	153,813	139,005	123,045	981,723
2013	85,966	77,758	55,110	39,283	37,867	56,743	60,969	87,168	96,602	119,414	145,988	120,342	983,210
2014	81,909	51,769	39,769	48,758	42,395	61,100	71,283	96,481	95,206	110,173	123,369	115,607	937,819
2015	106,251	67,825	58,659	45,691	39,675	35,752	56,704	48,637	72,934	117,302	143,413	142,394	935,237
2016	106,731	52,616	43,708	46,945	50,721	55,178	60,434	55,562	68,138	112,533	128,963	104,664	886,193
2017	82,677	77,937	43,792	43,207	43,024	69,549	65,723	94,452	103,867	101,184	114,872	109,769	950,053
2018	91,439	78,282	55,745	40,796	40,750	51,711	67,217	97,980	124,109	155,354	144,015	85,946	1,033,344
2019	60,576	53,119	45,651	45,552	39,014	43,048	61,238	48,787	79,167	102,887	144,299	130,752	854,090
2020	112,971	48,627	49,384	40,726	35,749	38,576	57,714	74,153	106,219	136,306	130,721	89,514	920,660
2021	106,660	66,304	46,962	50,538	47,733	44,191	75,866	56,985	73,907				569,146

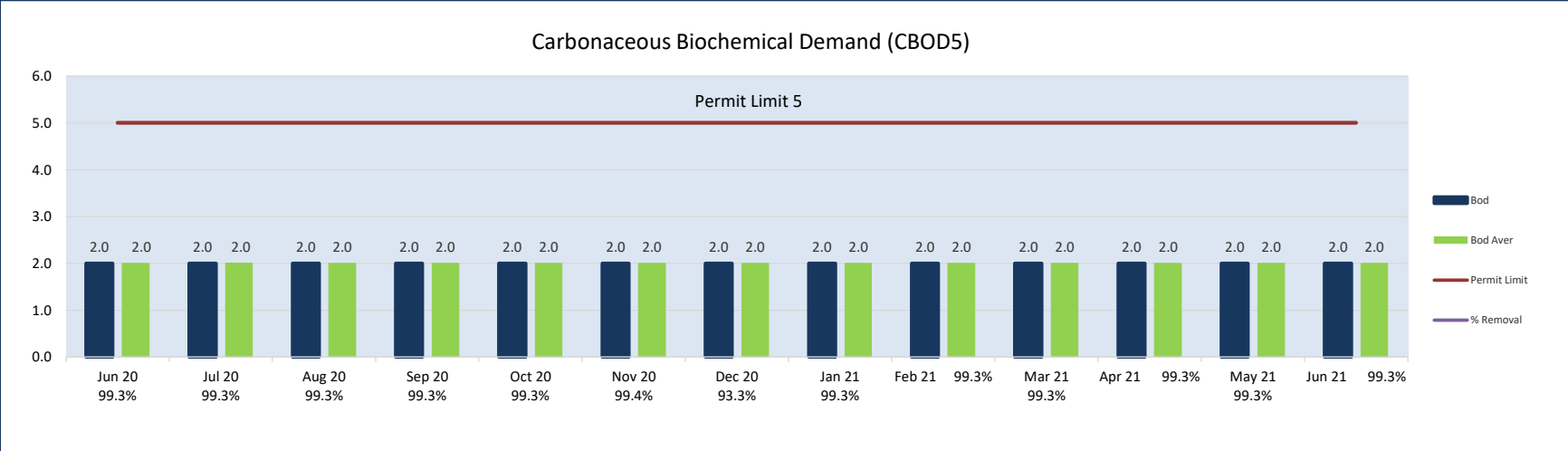
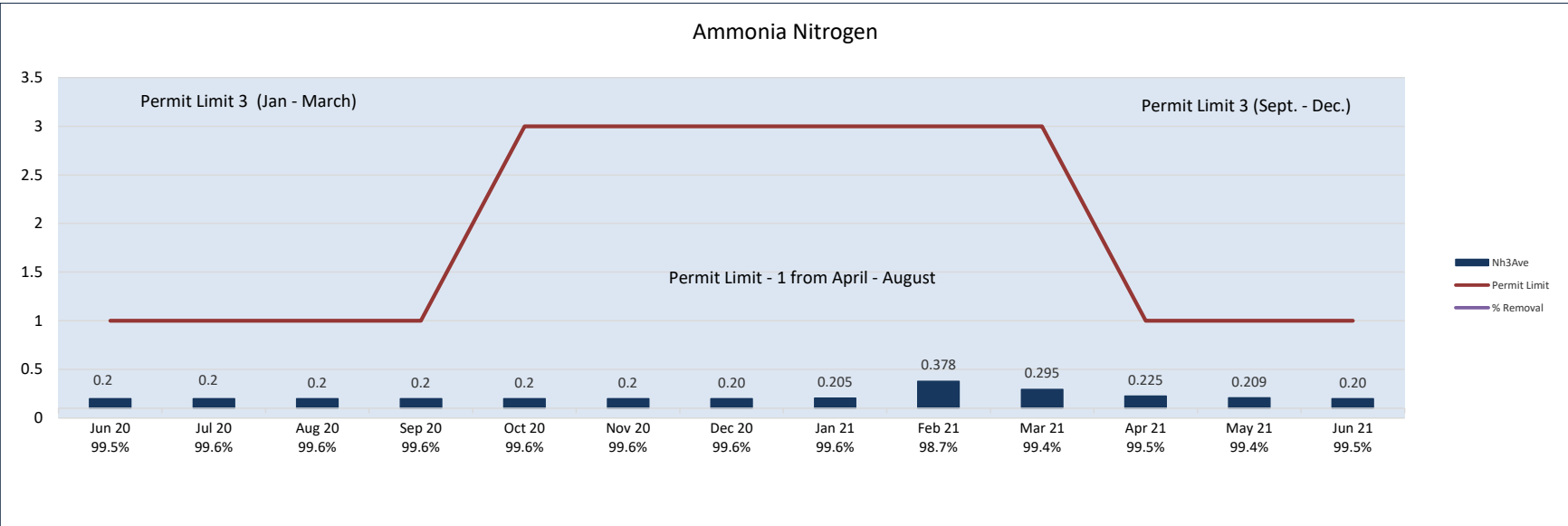


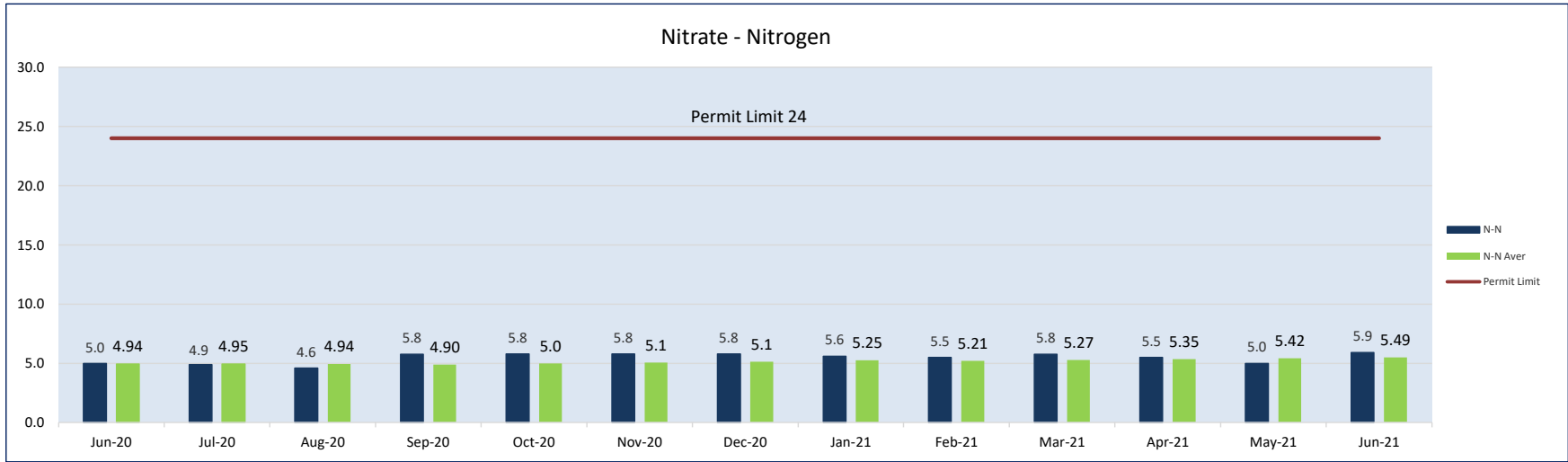
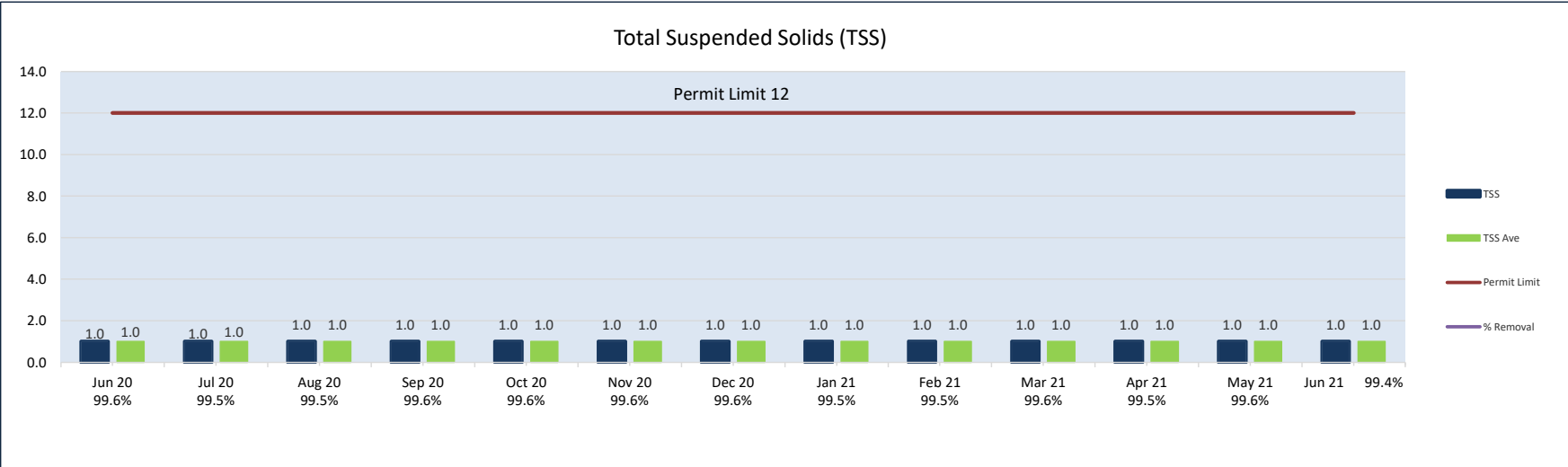
Active Connections													
FY	October	November	December	January	February	March	April	May	June	July	August	September	
2015 Total	4353	4363	4377	4404	4413	4429	4443	4459	4478	4486	4498	4517	
2016 Total	4531	4538	4556	4568	4593	4604	4607	4616	4622	4627	4632	4636	
2017 Total	4644	4647	4661	4657	4663	4666	4670	4676	4685	4690	4696	4700	
2018 Total	4701	4706	4712	4716	4720	4724	4724	4728	4732	4735	4736	4738	
2019 Total	4741	4743	4745	4753	4753	4758	4761	4762	4768	4770	4773	4782	
2020 Total	4795	4796	4797	4797	4807	4807	4816	4817	4830	4836	4836	4837	
2020 MUD	3351	3352	3353	3353	3363	3363	3372	3373	3386	3392	3392	3393	
2020 PID	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	
2021 Total	4837	4837	4837	4837	4837	4837	4837	4837	4839				
2021 MUD	3393	3393	3393	3393	3393	3393	3393	3393	3393				
2021 PID	1444	1444	1444	1444	1444	1444	1444	1444	1444				

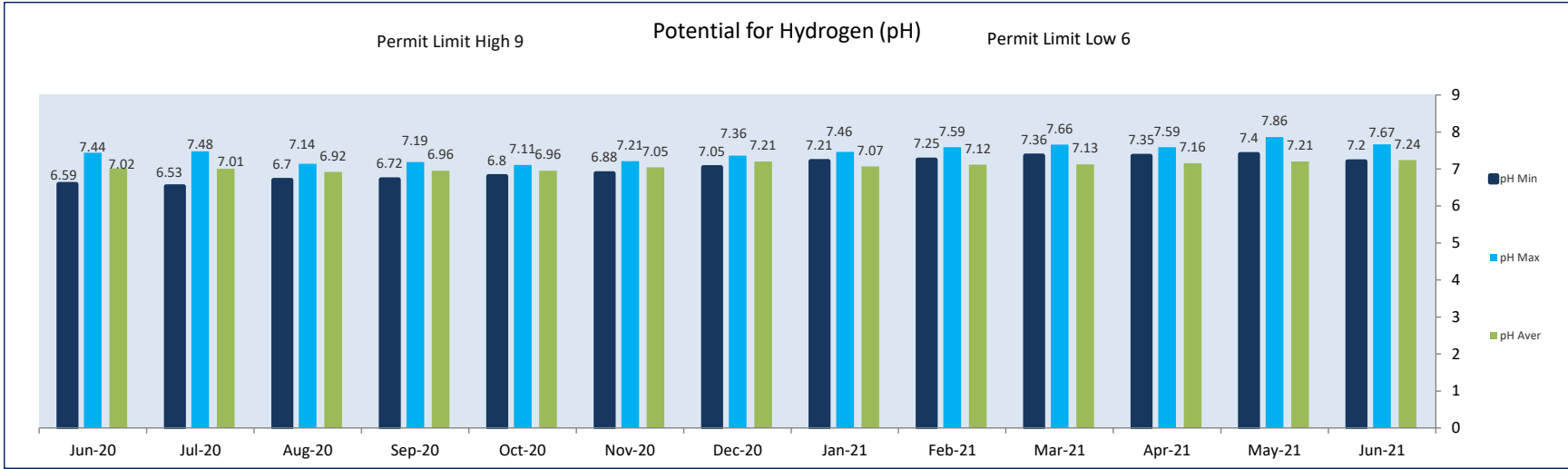
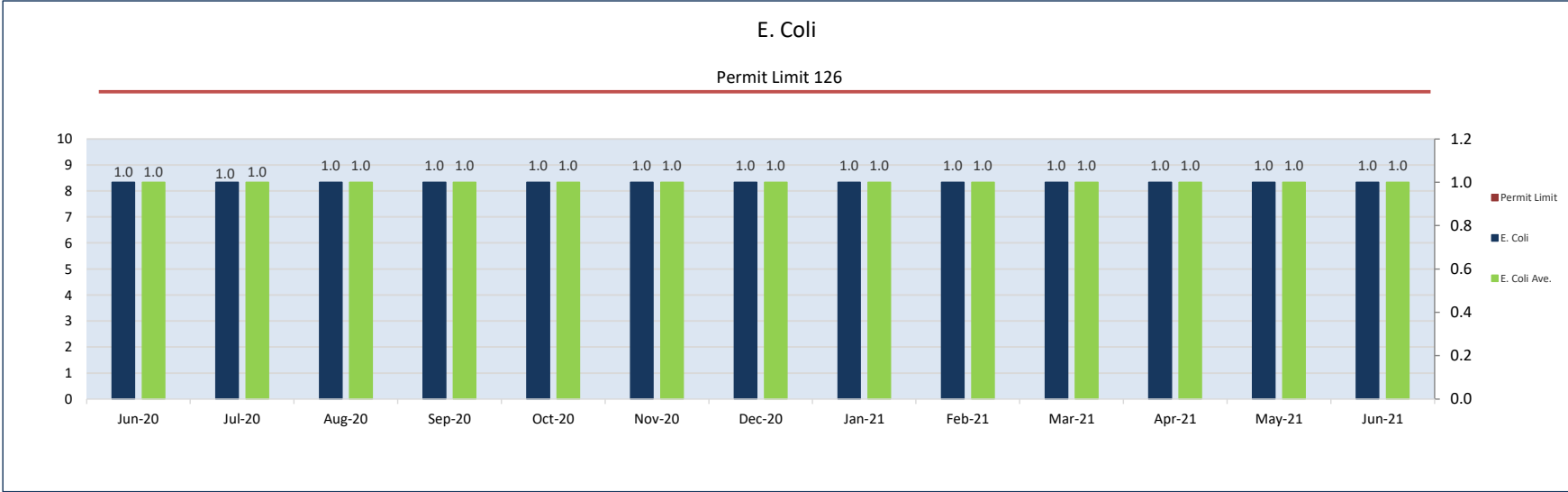
June 2021 Results

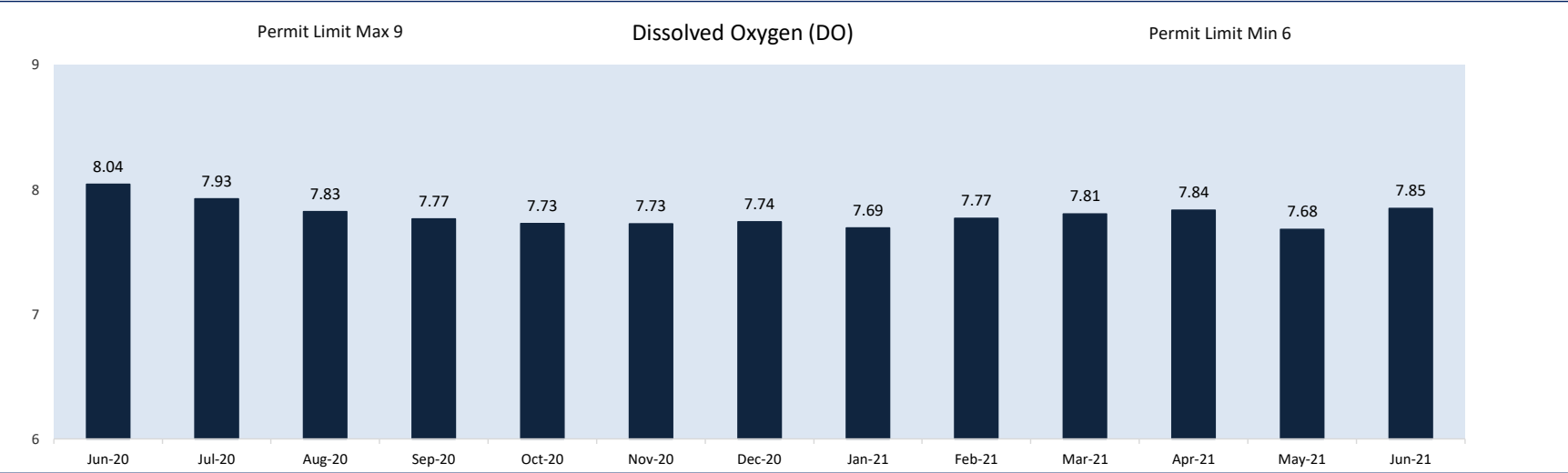
Date	Ammonia-N		% Removal	CBOD5		% Removal	TSS		% Removal
	Influent	Effluent		Influent	Effluent		Influent	Effluent	
1-Jun	30.0	0.20	99.3%	285	2.0	99.3%	165	1.0	99.4%
3-Jun	36.1	0.20	99.4%	301	2.0	99.3%	182	1.0	99.5%
7-Jun	35.1	0.20	99.4%	287	2.0	99.3%	166	1.0	99.4%
10-Jun	35.0	0.20	99.4%	270	2.0	99.3%	154	1.0	99.4%
14-Jun	47.5	0.20	99.6%	287	2.0	99.3%	207	1.0	99.5%
17-Jun	42.5	0.20	99.5%	291	2.0	99.3%	165	1.0	99.4%
22-Jun	44.0	0.20	99.5%	287	2.0	99.3%	197	1.0	99.5%
24-Jun	45.0	0.20	99.6%	301	2.0	99.3%	137	1.0	99.3%
28-Jun	55.0	0.2	99.6%	207	2.0	99.0%	250	1.0	99.6%
29-Jun	52.5	0.2	99.6%	576	2.0	99.7%	166	1.0	99.4%

Report	Ammonia-N		CBOD5		TSS	
		0.20	99.5%	2.0	99.3%	1.0









Begin Date: 06/01/2021 End Date: 06/30/2021

From Amt:

AP Checks For Date/Amount Range
.00 To Amt: 99,999,999.99

Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
998	ACKERMAN, DAVID	U0036000421101A	05/31/21	P		135-20050-000-000	A/P Vendors	14.92	7554	06/09/21
Totals for Check: 7554								14.92		
998	CB JENI HOMES TROPHY CLUB LLC	U0010000103100A	05/31/21	P		135-20050-000-000	A/P Vendors	56.79	7555	06/09/21
Totals for Check: 7555								56.79		
998	CB JENI HOMES TROPHY CLUB LLC	U0010000109100A	05/31/21	P		135-20050-000-000	A/P Vendors	50.26	7556	06/09/21
Totals for Check: 7556								50.26		
998	CORTEZ, SUZANNE	U0020000927208A	05/31/21	P		135-20050-000-000	A/P Vendors	09.53	7557	06/09/21
Totals for Check: 7557								09.53		
998	D'AMELIO, MICHAEL	U0017030019103A	05/31/21	P		135-20050-000-000	A/P Vendors	15.09	7558	06/09/21
Totals for Check: 7558								15.09		
998	DE GUZMAN, RINNELL & OLIVE	U0030121577201A	05/31/21	P		135-20050-000-000	A/P Vendors	09.92	7559	06/09/21
Totals for Check: 7559								09.92		
998	FELDMAN, STEVEN	U9021120009902A	05/31/21	P		135-20050-000-000	A/P Vendors	07.22	7560	06/09/21
Totals for Check: 7560								07.22		
998	FELKER, AMY	U0020001018212A	05/31/21	P		135-20050-000-000	A/P Vendors	125.87	7561	06/09/21
Totals for Check: 7561								125.87		
998	GILLIS, JAMES B	U0020000880201A	05/31/21	P		135-20050-000-000	A/P Vendors	27.29	7562	06/09/21
Totals for Check: 7562								27.29		
998	ISTREFI, VENDIM	U0010180010107A	05/31/21	P		135-20050-000-000	A/P Vendors	46.92	7563	06/09/21
Totals for Check: 7563								46.92		
998	NUSSPICKEL, THOMAS	U9021150014902A	05/31/21	P		135-20050-000-000	A/P Vendors	85.02	7564	06/09/21
Totals for Check: 7564								85.02		
998	PATEL, KISHANKUMAR	U9048060064902A	05/31/21	P		135-20050-000-000	A/P Vendors	18.78	7565	06/09/21
Totals for Check: 7565								18.78		
998	SCHUMM, CAROL	U9048050020902A	05/31/21	P		135-20050-000-000	A/P Vendors	08.93	7566	06/09/21
Totals for Check: 7566								08.93		
998	SHELDON, RONALD	U0030111461204A	05/31/21	P		135-20050-000-000	A/P Vendors	121.61	7567	06/09/21
Totals for Check: 7567								121.61		
998	SMITHEE, LEANNE	U0020450013210A	05/31/21	P		135-20050-000-000	A/P Vendors	20.73	7568	06/09/21
Totals for Check: 7568								20.73		
998	STUKEL, CATHERINE	U0010050424106A	05/31/21	P		135-20050-000-000	A/P Vendors	12.80	7569	06/09/21
Totals for Check: 7569								12.80		

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Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
998	VOLKEL, NANCY	U0017000109102A	05/31/21	P		135-20050-000-000	A/P Vendors	02.94	7570	06/09/21
Totals for Check: 7570								02.94		
998	WHITLOCK, RICHARD	U0020001042206A	05/31/21	P		135-20050-000-000	A/P Vendors	127.79	7571	06/09/21
Totals for Check: 7571								127.79		
2772	ALLIED Waste Industries	0615-001004981	05/31/21	P	20	135-55125-020-000	Dumpster Services	8,073.15	7572	06/10/21
Totals for Check: 7572								8,073.15		
1005	ATLAS UTILITY SUPPLY CO.	16504	06/07/21	P	10	135-65050-010-000	Meter Expense	9,286.90	7573	06/10/21
Totals for Check: 7573								9,286.90		
2655	Core & Main LP	0289316	05/25/21	P	20	135-55081-020-000	Mainten & Repairs Collections	546.00	7574	06/10/21
2655	Core & Main LP	0222540	05/24/21	P	20	135-55081-020-000	Mainten & Repairs Collections	3,900.00	7574	06/10/21
2655	Core & Main LP	0096456	05/28/21	P	10	135-55080-010-000	Maintenance & Repairs	1,023.12	7574	06/10/21
2655	Core & Main LP	0096456	05/28/21	P	10	135-55080-010-000	Maintenance & Repairs	489.00	7574	06/10/21
Totals for Check: 7574								5,958.12		
3184	DATAPROSE LLC	DP2101838	05/31/21	P	30	135-60035-030-000	Postage	1,678.43	7575	06/10/21
3184	DATAPROSE LLC	DP2101838	05/31/21	P	30	135-55205-030-000	Utility Billing Contract	576.41	7575	06/10/21
Totals for Check: 7575								2,254.84		
1018	DENTON CENTRAL APPRAISAL DISTR	9000	06/01/21	P	39	135-55060-039-000	Appraisal	2,147.80	7576	06/10/21
Totals for Check: 7576								2,147.80		
1737	DPC INDUSTRIES, INC	767002169-21	05/17/21	P	10	135-65030-010-000	Chemicals	1,072.46	7577	06/10/21
Totals for Check: 7577								1,072.46		
2606	Fiserv Solutions, LLC	91911825	06/03/21	P	30	135-60040-030-000	Service Charges & Fees	50.00	7578	06/10/21
Totals for Check: 7578								50.00		
2635	Half Associates, INC	10050834	04/13/21	P	30	135-60079-030-000	Public Education	1,470.67	7579	06/10/21
Totals for Check: 7579								1,470.67		
1372	HACH COMPANY	12460179	05/19/21	P	20	135-65045-020-000	Lab Supplies	453.25	7580	06/10/21
Totals for Check: 7580								453.25		
3076	HD SUPPLY FACILITIES MAINT LTD	602599	05/13/21	P	20	135-65045-020-000	Lab Supplies	459.38	7581	06/10/21
Totals for Check: 7581								459.38		
1249	HUTHER AND ASSOCIATES, INC	9852	05/25/21	P	20	135-55135-020-000	Lab Analysis	1,140.00	7582	06/10/21
Totals for Check: 7582								1,140.00		
1834	IDEX DISTRIBUTION, INC	3085848753	06/01/21	P	20	135-65045-020-000	Lab Supplies	1,896.78	7583	06/10/21
1834	IDEX DISTRIBUTION, INC	3085848754	06/01/21	P	20	135-65045-020-000	Lab Supplies	493.60	7583	06/10/21
Totals for Check: 7583								2,390.38		

Begin Date: 06/01/2021 End Date: 06/30/2021

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Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
2673	JACK HENRY & ASSOC, INC	3687675	06/01/21	P	30	135-55030-030-000	Software & Support	1,989.00	7584	06/10/21
Totals for Check: 7584								1,989.00		
2943	JPMORGAN CHASE BANK NA	05262021	05/26/21	P		135-20060-000-000	Procurement Clearing	5,535.42	7585	06/10/21
Totals for Check: 7585								5,535.42		
2754	LOWER COLORADO RIVER AUTHORITY	LAB-0051153	05/28/21	P	10	135-55135-010-001	Lab Analysis for PID	213.92	7586	06/10/21
Totals for Check: 7586								213.92		
3223	MAGIC SHRED	39649	05/26/21	P	30	135-60245-030-000	Miscellaneous Expenses	120.00	7587	06/10/21
Totals for Check: 7587								120.00		
2650	McClatchy Company	32856	05/31/21	P	20	135-60135-020-000	TCEQ Fees & Permits	675.00	7588	06/10/21
Totals for Check: 7588								675.00		
2760	NDS Leasing	72601101	05/22/21	P	30	135-69170-030-000	Copier Lease Installments	200.09	7589	06/10/21
Totals for Check: 7589								200.09		
3179	NEW GEN STRATEGIES & SOLUTIONS	11036	03/17/21	P	30	135-55160-030-000	Professional Outside Services	2,500.00	7590	06/10/21
Totals for Check: 7590								2,500.00		
1238	NORTH TEXAS PUMP CO.	14896	05/24/21	P	20	135-69005-020-000	Capital Outlays	7,919.52	7591	06/10/21
1238	NORTH TEXAS PUMP CO.	14883	05/24/21	P	20	135-55080-020-000	Maintenance & Repairs	5,578.40	7591	06/10/21
Totals for Check: 7591								13,497.92		
3156	OXIDOR LABORATORIES LLC	21060079	06/04/21	P	20	135-55135-020-000	Lab Analysis	259.90	7592	06/10/21
3156	OXIDOR LABORATORIES LLC	21060049	06/02/21	P	20	135-55135-020-000	Lab Analysis	368.00	7592	06/10/21
Totals for Check: 7592								627.90		
3176	REY-MAR CONSTRUCTION	TCMUD20MEADOWR	06/02/21	P	20	135-55081-020-000	Mainten & Repairs Collections	7,900.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	TCMUDHERITAGEMA	05/20/21	P	20	135-55081-020-000	Mainten & Repairs Collections	6,699.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	LIFTST6GRADE	05/18/21	P	20	135-55081-020-000	Mainten & Repairs Collections	00.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	LIFTST6GRADE	05/18/21	P	20	135-55081-020-000	Mainten & Repairs Collections	4,310.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	TCMUD17CYPRESS	06/07/21	P	20	135-55081-020-000	Mainten & Repairs Collections	6,760.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	LS5GRADE-GRAVEL	05/18/21	P	20	135-55081-020-000	Mainten & Repairs Collections	3,677.00	7593	06/10/21
3176	REY-MAR CONSTRUCTION	LS5GRADE-GRAVEL	05/18/21	P	20	135-55081-020-000	Mainten & Repairs Collections	00.00	7593	06/10/21
Totals for Check: 7593								29,346.00		
2696	Texas Excavation Safety System	21-12421	05/13/21	P	30	135-60040-030-000	Service Charges & Fees	177.65	7594	06/10/21
Totals for Check: 7594								177.65		
1001	TOWN OF TROPHY CLUB	060121	06/02/21	P	45	122-60337-045-000	Transfer to Town/Fire Budget	68,335.58	7595	06/10/21
1001	TOWN OF TROPHY CLUB	MAY REFUSE	05/31/21	P		135-25040-000-000	Town-Storm Drainage	35,823.88	7595	06/10/21
1001	TOWN OF TROPHY CLUB	MAY REFUSE	05/31/21	P		135-25000-000-000	Refuse	80,896.35	7595	06/10/21
1001	TOWN OF TROPHY CLUB	MAY REFUSE	05/31/21	P		135-25010-000-000	Refuse Tax	6,730.99	7595	06/10/21
Totals for Check: 7595								191,786.80		

Begin Date: 06/01/2021 End Date: 06/30/2021

From Amt:

AP Checks For Date/Amount Range .00 To Amt: 99,999,999.99

Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
1000	TROPHY CLUB MUD (WATER BILLS)	05/31/2021	05/31/21	P	30	135-60025-030-000	Water	307.76	7596	06/10/21
Totals for Check: 7596								307.76		
2707	United Rentals (North America)	194101706-001	06/01/21	P	20	135-60105-020-000	Rent/Lease Equipment	575.28	7597	06/10/21
Totals for Check: 7597								575.28		
2634	Valley Solvent Company, INC	71507	05/26/21	P	20	135-65030-020-000	Chemicals	788.00	7598	06/10/21
Totals for Check: 7598								788.00		
2196	VICTOR O SCHINNERER & CO, INC	61BSBDA7049-21	06/04/21	P	26	135-60070-026-000	Dues & Memberships	520.00	7599	06/10/21
Totals for Check: 7599								520.00		
3280	WATTS ELLISON LLC	26488	06/01/21	P	30	135-60285-030-000	Lawn Equipment & Maintenance	655.00	7600	06/10/21
3280	WATTS ELLISON LLC	26485	06/01/21	P	10	135-60285-010-000	Lawn Equipment & Maintenance	1,200.00	7600	06/10/21
3280	WATTS ELLISON LLC	26485	06/01/21	P	20	135-60285-020-000	Lawn Equipment & Maintenance	1,540.00	7600	06/10/21
3280	WATTS ELLISON LLC	26485	06/01/21	P	30	135-60285-030-000	Lawn Equipment & Maintenance	469.00	7600	06/10/21
Totals for Check: 7600								3,864.00		
2691	ALL Test Fire Protection LLC	6680	05/28/21	P	10	135-55080-010-000	Maintenance & Repairs	225.00	7601	06/16/21
Totals for Check: 7601								225.00		
2683	Charter Communications	71672060621	06/06/21	P	30	135-55030-030-000	Software & Support	903.74	7602	06/16/21
Totals for Check: 7602								903.74		
2778	City of Southlake	TXDOT U16036-2	06/16/21	P		135-49900-000-000	Miscellaneous Income	147,911.98	7603	06/16/21
Totals for Check: 7603								147,911.98		
1372	HACH COMPANY	12485292	06/03/21	P	10	135-65030-010-000	Chemicals	847.00	7604	06/16/21
Totals for Check: 7604								847.00		
2641	Huber Technology Inc	CD10021158	06/01/21	P	20	135-55080-020-000	Maintenance & Repairs	605.00	7605	06/16/21
Totals for Check: 7605								605.00		
2775	HUDSON ENERGY SERVICES, LLC	S2106140001-57	06/14/21	P	30	135-60020-030-000	Electricity/Gas	879.09	7606	06/16/21
2775	HUDSON ENERGY SERVICES, LLC	S2106140001-57	06/14/21	P	10	135-60020-010-000	Electricity	8,539.56	7606	06/16/21
2775	HUDSON ENERGY SERVICES, LLC	S2106140001-57	06/14/21	P	20	135-60020-020-000	Electricity	11,268.80	7606	06/16/21
Totals for Check: 7606								20,687.45		
1834	IDEXX DISTRIBUTION, INC	3084128443	05/03/21	P	20	135-65045-020-000	Lab Supplies	1,356.01	7607	06/16/21
Totals for Check: 7607								1,356.01		
3167	KEYSTONE PARK SECRETARIAL	169554	06/09/21	P	30	135-60005-030-000	Telephone	25.00	7608	06/16/21
Totals for Check: 7608								25.00		
2643	McLean & Howard, L.L.P.	39658	05/31/21	P	39	135-55045-039-000	Legal	2,762.50	7609	06/16/21
Totals for Check: 7609								2,762.50		

Begin Date: 06/01/2021 End Date: 06/30/2021

From Amt:

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Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
3186	MEMBER'S BUILDING MAINTENANCE	TC2104TCMUD	05/01/21	P	10	135-55120-010-000	Cleaning Services	87.50	7610	06/16/21
3186	MEMBER'S BUILDING MAINTENANCE	TC2104TCMUD	05/01/21	P	20	135-55120-020-000	Cleaning Services	87.50	7610	06/16/21
3186	MEMBER'S BUILDING MAINTENANCE	TC2104TCMUD	05/01/21	P	30	135-55120-030-000	Cleaning Services	869.06	7610	06/16/21
3186	MEMBER'S BUILDING MAINTENANCE	TC2105TCMUD	05/31/21	P	10	135-55120-010-000	Cleaning Services	87.50	7610	06/16/21
3186	MEMBER'S BUILDING MAINTENANCE	TC2105TCMUD	05/31/21	P	20	135-55120-020-000	Cleaning Services	87.50	7610	06/16/21
3186	MEMBER'S BUILDING MAINTENANCE	TC2105TCMUD	05/31/21	P	30	135-55120-030-000	Cleaning Services	869.06	7610	06/16/21
Totals for Check: 7610								2,088.12		
1056	OFFICE DEPOT, INC	176118938001	06/01/21	P	30	135-65085-030-000	Office Supplies	71.90	7611	06/16/21
1056	OFFICE DEPOT, INC	176118936001	06/02/21	P	30	135-65085-030-000	Office Supplies	20.99	7611	06/16/21
1056	OFFICE DEPOT, INC	176118635001	06/01/21	P	30	135-65095-030-000	Maintenance Supplies	108.03	7611	06/16/21
1056	OFFICE DEPOT, INC	176118635001	06/01/21	P	30	135-65085-030-000	Office Supplies	192.32	7611	06/16/21
Totals for Check: 7611								393.24		
3156	OXIDOR LABORATORIES LLC	21060151	06/08/21	P	20	135-55135-020-000	Lab Analysis	368.00	7612	06/16/21
3156	OXIDOR LABORATORIES LLC	21060221	06/11/21	P	20	135-55135-020-000	Lab Analysis	259.90	7612	06/16/21
Totals for Check: 7612								627.90		
2440	TARRANT CTY PUBLIC HEALTH LAB	35248	05/31/21	P	10	135-55135-010-001	Lab Analysis for PID	80.00	7613	06/16/21
2440	TARRANT CTY PUBLIC HEALTH LAB	35247	05/31/21	P	10	135-55135-010-000	Lab Analysis	220.00	7613	06/16/21
Totals for Check: 7613								300.00		
1081	TRI COUNTY ELECTRIC	78641363	05/27/21	P	20	135-60020-020-000	Electricity	465.65	7614	06/16/21
Totals for Check: 7614								465.65		
1058	VERIZON WIRELESS	9880899168	06/01/21	P	10	135-60010-010-000	Communications/Mobiles	376.16	7615	06/16/21
1058	VERIZON WIRELESS	9880899168	06/01/21	P	20	135-60010-020-000	Communications/Mobiles	446.62	7615	06/16/21
Totals for Check: 7615								822.78		
2691	ALL Test Fire Protection LLC	6766	06/24/21	P	10	135-55080-010-000	Maintenance & Repairs	685.00	7616	06/30/21
2691	ALL Test Fire Protection LLC	6767	06/24/21	P	10	135-55080-010-000	Maintenance & Repairs	227.00	7616	06/30/21
Totals for Check: 7616								912.00		
3197	BenefitMall	06/07/2021	06/07/21	P	10	135-50029-010-000	Life Insurance & Other	10.00	7617	06/30/21
3197	BenefitMall	06/07/2021	06/07/21	P	20	135-50029-020-000	Life Insurance & Other	22.00	7617	06/30/21
3197	BenefitMall	06/07/2021	06/07/21	P	30	135-50029-030-000	Life Insurance & Other	32.00	7617	06/30/21
Totals for Check: 7617								64.00		
2655	Core & Main LP	304534	06/11/21	P	10	135-55080-010-000	Maintenance & Repairs	00.00	7618	06/30/21
2655	Core & Main LP	304534	06/11/21	P	10	135-55080-010-000	Maintenance & Repairs	525.00	7618	06/30/21
Totals for Check: 7618								525.00		
2497	DHS AUTOMATION, INC	06-2070	05/28/21	P	20	135-55080-020-000	Maintenance & Repairs	650.00	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2068	05/28/21	P	20	135-55081-020-000	Mainten & Repairs Collections	834.23	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2074	05/28/21	P	20	135-55081-020-000	Mainten & Repairs Collections	8,140.00	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2075	05/25/21	P	20	135-55080-020-000	Maintenance & Repairs	3,652.80	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2067	05/28/21	P	20	135-55080-020-000	Maintenance & Repairs	1,270.00	7619	06/30/21

Begin Date: 06/01/2021 End Date: 06/30/2021

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Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
2497	DHS AUTOMATION, INC	06-2065	05/28/21	P	20	135-55081-020-000	Mainten & Repairs Collections	620.00	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2069	05/28/21	P	20	135-55080-020-000	Maintenance & Repairs	2,786.63	7619	06/30/21
2497	DHS AUTOMATION, INC	06-2076	05/28/21	P	10	135-55080-010-000	Maintenance & Repairs	490.00	7619	06/30/21
Totals for Check: 7619								18,443.66		
2635	Halff Associates, INC	10053936	06/17/21	P	10	135-69005-010-000	Capital Outlays	6,504.00	7620	06/30/21
2635	Halff Associates, INC	10053931	06/17/21	P	10	520-69005-010-000	Capital Outlays	7,285.38	7620	06/30/21
2635	Halff Associates, INC	10053935	06/17/21	P	10	135-69005-010-000	Capital Outlays	14,309.00	7620	06/30/21
2635	Halff Associates, INC	10053935	06/17/21	P	20	135-69005-020-000	Capital Outlays	7,895.00	7620	06/30/21
Totals for Check: 7620								35,993.38		
1372	HACH COMPANY	12497099	06/11/21	P	10	135-65030-010-000	Chemicals	114.20	7621	06/30/21
1372	HACH COMPANY	12499765	06/14/21	P	10	135-65030-010-000	Chemicals	237.56	7621	06/30/21
1372	HACH COMPANY	12495226	06/10/21	P	10	135-65030-010-000	Chemicals	384.00	7621	06/30/21
Totals for Check: 7621								735.76		
2676	Humana Inc	155516868	06/13/21	P		135-21308-000-000	Dental	1,382.36	7622	06/30/21
2676	Humana Inc	155516868	06/13/21	P		135-21309-000-000	Vision	179.24	7622	06/30/21
2676	Humana Inc	155516868	06/13/21	P		135-21311-000-000	Voluntary Life	366.95	7622	06/30/21
2676	Humana Inc	155516868	06/13/21	P	10	135-50029-010-000	Life Insurance & Other	155.43	7622	06/30/21
2676	Humana Inc	155516868	06/13/21	P	20	135-50029-020-000	Life Insurance & Other	198.66	7622	06/30/21
2676	Humana Inc	155516868	06/13/21	P	30	135-50029-030-000	Life Insurance & Other	184.80	7622	06/30/21
Totals for Check: 7622								2,467.44		
3278	KYOCERA DOCUMENT SOLUTIONS	55R1865334	06/21/21	P	30	135-69170-030-000	Copier Lease Installments	95.95	7623	06/30/21
Totals for Check: 7623								95.95		
3195	LOU'S GLOVES INCORPORATED	041820	06/22/21	P	20	135-55080-020-000	Maintenance & Repairs	392.00	7624	06/30/21
Totals for Check: 7624								392.00		
3216	M3 Networks	7090	06/15/21	P	30	135-55030-030-000	Software & Support	484.00	7625	06/30/21
Totals for Check: 7625								484.00		
3115	METLIFE GROUP BENEFITS	07012021	06/15/21	P	10	135-50029-010-000	Life Insurance & Other	123.37	7626	06/30/21
3115	METLIFE GROUP BENEFITS	07012021	06/15/21	P	20	135-50029-020-000	Life Insurance & Other	178.82	7626	06/30/21
3115	METLIFE GROUP BENEFITS	07012021	06/15/21	P	30	135-50029-030-000	Life Insurance & Other	182.22	7626	06/30/21
3115	METLIFE GROUP BENEFITS	07012021	06/15/21	P		135-21315-000-000	Short Term Disability	85.46	7626	06/30/21
Totals for Check: 7626								569.87		
2760	NDS Leasing	72918892	06/20/21	P	30	135-69170-030-000	Copier Lease Installments	183.75	7627	06/30/21
Totals for Check: 7627								183.75		
3179	NEW GEN STRATEGIES & SOLUTIONS	11450	06/15/21	P	30	135-55160-030-000	Professional Outside Services	4,417.50	7628	06/30/21
Totals for Check: 7628								4,417.50		
1238	NORTH TEXAS PUMP CO.	14898	06/10/21	P	20	135-55080-020-000	Maintenance & Repairs	1,860.77	7629	06/30/21
Totals for Check: 7629								1,860.77		

Begin Date: 06/01/2021 End Date: 06/30/2021

From Amt:

AP Checks For Date/Amount Range
.00 To Amt: 99,999,999.99

Vendor Number	Vendor Name	Invoice Number	Invoice Date	Inv Stat	Dept No	Account Number	Description	Line Item Value	Check Number	Check Date
3156	OXIDOR LABORATORIES LLC	21060293	06/14/21	P	20	135-55135-020-000	Lab Analysis	368.00	7630	06/30/21
3156	OXIDOR LABORATORIES LLC	21060375	06/17/21	P	20	135-55135-020-000	Lab Analysis	259.90	7630	06/30/21
3156	OXIDOR LABORATORIES LLC	21060472	06/23/21	P	20	135-55135-020-000	Lab Analysis	368.00	7630	06/30/21
3156	OXIDOR LABORATORIES LLC	21060463	06/23/21	P	20	135-55135-020-000	Lab Analysis	259.90	7630	06/30/21
Totals for Check: 7630								1,255.80		
3225	US Bank Voyager Fleet Systems	8693381112126	06/24/21	P	10	135-65005-010-000	Fuel & Lube	1,350.04	7631	06/30/21
3225	US Bank Voyager Fleet Systems	8693381112126	06/24/21	P	20	135-65005-020-000	Fuel & Lube	718.98	7631	06/30/21
Totals for Check: 7631								2,069.02		
Grand Totals:								538,735.37		

***** End of Report *****

June Utility Billing Report
Fiscal Year 2020 - 2021

	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021
ebills	1001	995	1004	1015	1031	1055	1065	1084	1085	1095	1129	1141	1155
Bills Mailed	3808	3841	3882	3932	3921	3902	3884	3896	3888	3890	3875	3869	3881
Bank Draft	657	653	650	648	651	649	653	645	653	660	663	667	668
Credit Card Draft	1241	1239	1258	1278	1282	1297	1302	1319	1330	1331	1331	1357	1362
Online Payments	1,116	1,144	1,203	1201	1258	1188	1234	1205	1124	1,211	1,185	1,201	1,206
Late Notices	356 [^]	419 [^]	479 [^]	423	442	380	329	369	358 ^{^^}	309	332	387	345
Disconnects	0 [*]	0 [*]	0 [*]	0 [*]	39	25	20	13	26	0 ^{**}	17	23	15
Connections	MUD 3386	3392	3392	3393	3393	3393	3393	3393	3393	3393	3393	3393	3397
Connections	PID 1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444	1444
Active Residential	MUD -	-	-	-	-	-	-	3114	3113	3112	3114	3111	3117
Active Commerical	MUD -	-	-	-	-	-	-	251	253	253	253	253	255
Active Residential	PID -	-	-	-	-	-	-	1405	1406	1404	1406	1405	1405
Active Commerical	PID -	-	-	-	-	-	-	37	37	37	37	37	37

[^] In response to COVID-19 the District has suspended Late Notices
^{*} In response to COVID-19 the District has suspended Disconnects
^{^^} In response to extreme weather the District has suspended Late Notices
^{**} In response to extreme weather the District has suspended Disconnects

June Permits
Fiscal Year 2021

Date of Permit	Permit No.	Customer Deposit	Due to FW Water	Oversize Meter	Plumbing Inspections	Sewer Inspections	Fire Line	Misc Income	Total
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

CASH STATUS AS OF JUNE 2021		Restricted - Unable to be spent	Unrestricted- Available for spending	Total in Accounts (Restricted & Unrestricted)
135-10250	TexPool O & M (XXXXX0002)-General Fund Operating ***	\$0	\$3,624,443	\$3,624,443
135-10300	Prosperity Bank (XXX8701) General Fund Operating	\$312,135	\$3,384,099	\$3,696,234
135-10305	Prosperity Bank Reserve-Savings Acct (XXXXX7724)	\$1,999,378	\$0	\$1,999,378
135-11100	Petty Cash Administration	\$0	\$150	\$150
135-11150	Petty Cash Utility Billing	\$0	\$450	\$450
137-10250	TexPool O & M (XXXXX0002) GASB Replacement	\$2,007,484	\$0	\$2,007,484
517-10250	TexPool Construction Tax (XXXXX011) WWTP Improvements	\$0	\$0	\$0
517-10300	Prosperity Bank Construction WWTP Improvements	\$0	\$0	\$0
519-10250	Texpool Revenue Bond Construction (XXXXX015) SWIFT	\$0	\$0	\$0
519-11155	Cash-Bond Escrow Bank of Texas (SWIFT)	\$785,025	\$0	\$785,025
520-10250	Texpool Revenue Bond Water & Waste Water Systems 2019 (XXXXX018)	\$161,919	\$0	\$161,919
520-11155	Cash-Bond Escrow Bank of Texas (Water & Waste Water Systems)	\$3,892,813	\$0	\$3,892,813
528-10250	TexPool Revenue Bond Reserve (XXXXX014) WWTP Improvements	\$894,260	\$0	\$894,260
533-10250	TexPool Tax I & S (XXXXX0003)	\$907,582	\$0	\$907,582
533-10300	Prosperity Bank (XXX8701) Tax I&S	\$0	\$0	\$0
534-10250	TexPool Revenue I & S (XXXXX013) WWTP Improvements	\$417,222	\$0	\$417,222
535-10250	Texpool Revenue I & S (XXXXX017) SWIFT	\$200,331	\$0	\$200,331
536-10250	TexPool Revenue I & S (XXXXX020) Water & Waste Water Systems	\$198,645	\$0	\$198,645
		\$11,776,793	\$7,009,142	\$18,785,935

Amount available in cash (MUD Accounts) **\$7,009,142**

Amount available for spending (MUD Accounts) **\$7,009,142**

*06/30/2021 Customer Water Deposits \$312,135

Fire Department Cash

122-10250	TexPool O & M (XXXXX0002)-Fire Operating Cash	\$0	\$892,894	\$892,894
122-10300	Prosperity Bank (XXX8701) Fire Operating	\$0	\$0	\$0
		\$0	\$892,894	\$892,894

Amount available in cash (Fire Department Accounts) **\$892,894**

Amount available for spending (Fire Department Accounts) **\$892,894**

General Fund 135 Available

\$	3,384,099	Prosperity General Fund
\$	3,624,443	Texpool General Fund
\$	600	Petty Cash
\$	7,009,142	

Total General Fund 135 Available for Spending

General Fund 135 Fund Balances

Nonspendable Fund Balance (Prepays)	\$	3,486
Assigned Fund Balance (FY2020 Capital Projects plus prior year carry forward)	\$	2,404,829
Unassigned Fund Balance	\$	6,764,810
Current Year Revenue/Expenses	\$	151,642
Total Nonspendable, Assigned & Committed Fund Balances - General Fund 135		\$9,324,766

FY 2021 General Fund YTD Budget Variance

Account	Description	FY 2021 Adopted	Amended Budget	June Totals	YTD Total 6/30/2021	YTD % Budget (75% Target)	Remaining Budget
General Fund Revenues							
135-40000-000-000	Property Taxes	136,531	136,531	1,234	133,115	97.50%	3,416
135-40002-000-000	Property Taxes/Delinquent	300	300	3	547	182.27%	(247)
135-40015-000-000	Property Taxes/P & I	300	300	88	367	122.43%	(67)
135-40025-000-000	PID Surcharges	163,725	163,725		-	0.00%	163,725
135-47000-000-000	Water	5,932,489	5,932,489	446,839	3,544,069	59.74%	2,388,420
135-47005-000-000	Sewer	3,677,146	3,677,146	318,676	2,595,992	70.60%	1,081,154
135-47025-000-000	Penalties	112,608	112,608	6,467	53,465	47.48%	59,143
135-47030-000-000	Service Charges (Disconnect Fees)	16,550	16,550	650	8,700	52.57%	7,850
135-47035-000-000	Plumbing Inspections	750	750		300	40.00%	450
135-47045-000-000	Sewer Inspections	2,500	2,500		100	4.00%	2,400
135-47070-000-000	TCCC Effluent Charges	50,000	50,000	4,245	30,552	61.10%	19,448
135-48010-000-000	Utility Fees	-	-		-	0.00%	-
135-49000-000-000	Capital Lease- Other Fin Sources	-	-		-	0.00%	-
135-49011-000-000	Interest Income	100,000	100,000	1,279	14,337	14.34%	85,663
135-49016-000-000	Cell Tower Revenue	14,146	14,146	1,179	10,609	75.00%	3,536
135-49018-000-000	Building Rent Income	-	-		-	0.00%	-
135-49026-000-000	Proceeds from Sale of Assets	5,000	5,000		19,575	391.50%	(14,575)
135-49035-000-000	Prior Year Reserves	-	-		-	0.00%	-
135-49036-000-000	GASB Reserves	-	-		-	0.00%	-
135-49005-000-000	Loan Proceeds	-	-		-	0.00%	-
135-49075-000-000	Oversize Meter Reimbursement	8,232	8,232		4,407	53.53%	3,825
135-49141-000-000	Interfund Transfer In	-	-		-	0.00%	-
135-49145-000-000	Intergov Transfer In	-	-		-	0.00%	-
135-49900-000-000	Miscellaneous Income	7,000	7,000	306	18,488	264.11%	(11,488)
135-49901-000-000	Records Management Revenue	-	-		-	0.00%	-
135-49903-000-000	Recovery of Prior Year Expense	-	-		-	0.00%	-
135-00000-000-000	Reimbursement	-	-		-	0.00%	-
	Total	10,227,277	10,227,277	780,965	6,434,623	62.92%	3,792,653

Water	General Fund Expenses						
135-50005-010-000	Salaries & Wages	365,309	365,309	28,223	258,560	70.78%	106,749
135-50010-010-000	Overtime	17,000	17,000	1,740	18,232	107.24%	(1,232)
135-50016-010-000	Longevity	5,435	5,435		5,435	100.00%	-
135-50017-010-000	Certification	6,000	6,000	250	2,275	37.92%	3,725
135-50020-010-000	Retirement	36,520	36,520	2,804	28,062	76.84%	8,458
135-50026-010-000	Medical Insurance	86,182	86,182	5,477	48,538	56.32%	37,643
135-50027-010-000	Dental Insurance	4,933	4,933	332	2,940	59.60%	1,993
135-50028-010-000	Vision Insurance	789	789	48	434	54.97%	355
135-50029-010-000	Life Insurance & Other	3,289	3,289	289	2,931	89.11%	358
135-50030-010-000	Social Security Taxes	24,412	24,412	1,842	17,426	71.38%	6,986
135-50035-010-000	Medicare Taxes	5,709	5,709	431	4,076	71.38%	1,634
135-50040-010-000	Unemployment Taxes	1,080	1,080		915	84.72%	165
135-50045-010-000	Workman's Compensation	10,877	10,877	901	9,796	90.06%	1,081
135-50060-010-000	Pre-emp Physicals/Testing	400	400		-	0.00%	400
135-50070-010-000	Employee Relations	300	300		103	34.38%	197
135-55005-010-000	Engineering	20,000	20,000		-	0.00%	20,000
135-55080-010-000	Maintenance & Repairs	124,000	124,000	6,683	57,068	46.02%	66,932
135-55085-010-000	Generator Maintenance & Repairs	3,000	3,000		-	0.00%	3,000
135-55090-010-000	Vehicle Maintenance	5,000	5,000		7,657	153.13%	(2,657)
135-55105-010-000	Maintenance-Heavy Equipment	3,500	3,500		1,114	31.83%	2,386
135-55120-010-000	Cleaning Services	1,000	1,000	175	700	70.00%	300
135-55135-010-000	Lab Analysis - MUD	7,500	7,500	434	2,801	37.34%	4,699
135-55135-010-001	Lab Analysis - PID	2,000	2,000	80	1,513	75.66%	487
135-60010-010-000	Communications/Mobiles	7,500	7,500	376	3,522	46.96%	3,978
135-60020-010-000	Electricity	123,487	123,487	8,540	84,906	68.76%	38,581
135-60066-010-000	Publications/Books/Subscripts	1,000	1,000		1,366	136.60%	(366)
135-60070-010-000	Dues & Memberships	500	500		-	0.00%	500
135-60080-010-000	Schools & Training	7,426	7,426	350	1,875	25.25%	5,551
135-60090-010-000	Safety Program	400	400	105	105	26.25%	295
135-60100-010-000	Travel & per diem	2,875	2,875		-	0.00%	2,875
135-60105-010-000	Rent/Lease Equipment	1,500	1,500		-	0.00%	1,500
135-60135-010-000	TCEQ Fees & Permits - MUD	30,000	30,000		24,018	80.06%	5,982
135-60135-010-001	TCEQ Fees & Permits - PID	-	-		-	0.00%	-
135-60150-010-000	Wholesale Water	2,596,295	2,596,295	120,889	1,131,676	43.59%	1,464,619
135-60245-010-000	Miscellaneous Expenses	200	200		-	0.00%	200
135-60280-010-000	Property Maintenance	3,000	3,000		-	0.00%	3,000
135-60285-010-000	Lawn Equipment & Maintenance	14,750	14,750	600	6,300	42.71%	8,450
135-60332-010-000	Interfund Transfer Out- Revenue I&S	565,820	565,820	51,438	462,943	81.82%	102,876
135-60333-010-000	Interfund Transfer Out- Bond Reserve	-	-		-	0.00%	-
135-60334-010-000	Interfund Transfer Out-Bank Reserve Account	75,000	75,000		-	0.00%	75,000
135-60360-010-000	Furniture/Equipment < \$5000	2,500	2,500		383	15.30%	2,118
135-65005-010-000	Fuel & Lube	15,000	15,000	1,350	10,440	69.60%	4,560
135-65010-010-000	Uniforms	5,190	5,190		2,966	57.15%	2,224

July 27, 2021 Regular Meeting Agenda Packet

Account	Description	FY 2021 Adopted	Amended Budget	June Totals	YTD Total 6/30/2021	YTD % Budget (75% Target)	Remaining Budget
135-65030-010-000	Chemicals	25,000	25,000	3,048	18,517	74.07%	6,483
135-65035-010-000	Small Tools	1,200	1,200		-	0.00%	1,200
135-65040-010-000	Safety Equipment	1,000	1,000		-	0.00%	1,000
135-65050-010-000	Meter Expense	70,000	70,000	9,287	9,287	13.27%	60,713
135-65053-010-000	Meter Change Out Program	87,000	87,000		86,625	99.57%	375
135-69005-010-000	Capital Outlays	740,000	740,000	90,723	585,635	79.14%	154,365
135-69008-010-000	Short Term Debt-Principal	30,962	30,962		30,962	100.00%	(0)
135-69009-010-000	Short Term Debt-Interest	2,324	2,324		1,390	59.83%	934
135-69195-010-000	Gasb34/Reserve for Replacement	75,000	75,000		75,000	100.00%	-
135-69281-010-000	Water Tank Inspection Contract	108,000	108,000		106,707	98.80%	1,293
135-70040-010-000	Bond Related Expenses	-	-		-	0.00%	-
	Subtotal Water	5,327,165	5,327,165	336,415	3,115,199	58.48%	2,211,966

Wastewater							
135-50005-020-000	Salaries & Wages	483,633	483,633	33,532	334,651	69.20%	148,982
135-50010-020-000	Overtime	33,000	33,000	2,767	24,236	73.44%	8,764
135-50016-020-000	Longevity	7,420	7,420		7,420	100.00%	-
135-50017-020-000	Certification	8,100	8,100	675	5,775	71.30%	2,325
135-50020-020-000	Retirement	49,358	49,358	3,431	36,743	74.44%	12,615
135-50026-020-000	Medical Insurance	122,035	122,035	7,030	69,658	57.08%	52,377
135-50027-020-000	Dental Insurance	6,443	6,443	392	3,842	59.63%	2,601
135-50028-020-000	Vision Insurance	1,098	1,098	59	600	54.66%	498
135-50029-020-000	Life Insurance & Other	4,725	4,725	399	3,706	78.44%	1,019
135-50030-020-000	Social Security Taxes	32,993	32,993	2,196	22,267	67.49%	10,727
135-50035-020-000	Medicare Taxes	7,716	7,716	514	5,208	67.49%	2,509
135-50040-020-000	Unemployment Taxes	1,440	1,440		1,204	83.58%	236
135-50045-020-000	Workman's Compensation	14,607	14,607	1,218	12,647	86.58%	1,960
135-50060-020-000	Pre-emp Physicals/Testing	400	400		-	0.00%	400
135-50070-020-000	Employee Relations	300	300		135	45.10%	165
135-55005-020-000	Engineering	30,000	30,000		-	0.00%	30,000
135-55070-020-000	Independent Labor	15,000	15,000		-	0.00%	15,000
135-55080-020-000	Maintenance & Repairs- WWTP	108,000	108,000	14,620	65,296	60.46%	42,704
135-55081-020-000	Maintenance & Repairs- Collections	157,500	157,500	35,623	109,232	69.35%	48,268
135-55085-020-000	Generator Maintenance & Repairs	10,000	10,000		-	0.00%	10,000
135-55090-020-000	Vehicle Maintenance- WWTP	4,000	4,000		2,708	67.69%	1,292
135-55091-020-000	Vehicle Maintenance- Collections	13,000	13,000		6,464	49.72%	6,536
135-55105-020-000	Maintenance-Heavy Equipment	3,000	3,000		322	10.72%	2,678
135-55120-020-000	Cleaning Services	1,500	1,500	175	700	46.67%	800
135-55125-020-000	Dumpster Services	100,000	100,000	8,073	69,363	69.36%	30,637
135-55135-020-000	Lab Analysis	40,000	40,000	2,772	30,391	75.98%	9,609
135-60010-020-000	Communications/Mobiles	7,500	7,500	447	4,394	58.59%	3,106
135-60020-020-000	Electricity	157,735	157,735	11,734	105,555	66.92%	52,179
135-60066-020-000	Publications/Books/Subscripts	200	200		-	0.00%	200
135-60070-020-000	Dues & Memberships	300	300		-	0.00%	300
135-60080-020-000	Schools & Training	4,991	4,991	225	2,705	54.20%	2,286
135-60090-020-000	Safety Program	1,000	1,000		-	0.00%	1,000
135-60100-020-000	Travel & per diem	1,575	1,575		-	0.00%	1,575
135-60105-020-000	Rent/Lease Equipment	5,000	5,000	575	575	11.51%	4,425
135-60125-020-000	Advertising	2,500	2,500		-	0.00%	2,500
135-60135-020-000	TCEQ Fees & Permits	45,000	45,000	675	28,091	62.42%	16,909
135-60245-020-000	Miscellaneous Expenses	450	450		-	0.00%	450
135-60280-020-000	Property Maintenance	5,000	5,000		-	0.00%	5,000
135-60285-020-000	Lawn Equipment & Maintenance	14,000	14,000	770	7,350	52.50%	6,650
135-60331-020-000	Interfund Transfer Out-Tax I&S	114,681	114,681	10,426	93,830	81.82%	20,851
135-60332-020-000	Interfund Transfer Out- Revenue I&S	688,005	688,005	62,546	562,913	81.82%	125,092
135-60333-020-000	Interfund Transfer Out-Bond Reserve	-	-		-	0.00%	-
135-60334-020-000	Interfund Transfer Out-Bank Reserve Account	75,000	75,000		38,802	51.74%	36,198
135-60360-020-000	Furniture/Equipment < \$5000	2,000	2,000		36	1.80%	1,964
135-65005-020-000	Fuel & Lube	12,500	12,500	852	10,786	86.29%	1,714
135-65010-020-000	Uniforms	6,280	6,280	155	4,168	66.37%	2,112
135-65030-020-000	Chemicals- WWTP	25,000	25,000	788	17,242	68.97%	7,758
135-65031-020-000	Chemicals- Collections	17,500	17,500		4,895	27.97%	12,605
135-65035-020-000	Small Tools	1,200	1,200		-	0.00%	1,200
135-65040-020-000	Safety Equipment	1,200	1,200		252	21.00%	948
135-65045-020-000	Lab Supplies	28,000	28,000	3,746	24,839	88.71%	3,161
135-69005-020-000	Capital Outlays	335,000	335,000	16,119	152,458	45.51%	182,542
135-69008-020-000	Short Term Debt-Principal	81,273	81,273		60,970	75.02%	20,303
135-69009-020-000	Short Term Debt-Interest	8,532	8,532		4,756	55.75%	3,776
135-69195-020-000	Gasb34/Reserve for Replacement	130,000	130,000		130,000	100.00%	-
135-70020-020	Capital Lease Issuance Cost	-	-		-	0.00%	-
	Subtotal Wastewater	3,026,690	3,026,690	222,533	2,067,184	68.30%	959,507

Board of Directors							
135-50005-026-000	Salaries & Wages	-	-		-	0.00%	-
135-50030-026-000	Social Security Taxes	-	-		-	0.00%	-
135-50035-026-000	Medicare Taxes	-	-		-	0.00%	-
135-55040-026-000	Unemployment Taxes	-	-		-	0.00%	-

July 27, 2021 Regular Meeting Agenda Packet

Account	Description	FY 2021 Adopted	Amended Budget	June Totals	YTD Total 6/30/2021	YTD % Budget (75% Target)	Remaining Budget
135-50045-026-000	Workman's Compensation	30	30	1	7	23.70%	23
135-60066-026-000	Publications/Books/Subscripts	150	150		-	0.00%	150
135-60070-026-000	Dues & Memberships	750	750	520	1,195	159.33%	(445)
135-60075-026-000	Meetings	1,300	1,300	230	1,099	84.56%	201
135-60080-026-000	Schools & Training	4,000	4,000		-	0.00%	4,000
135-60100-026-000	Travel & per diem	5,000	5,000		-	0.00%	5,000
135-60245-026-000	Miscellaneous Expenses	2,000	2,000		58	2.88%	1,943
	Subtotal Board of Directors	13,230	13,230	751	2,359	17.83%	10,871

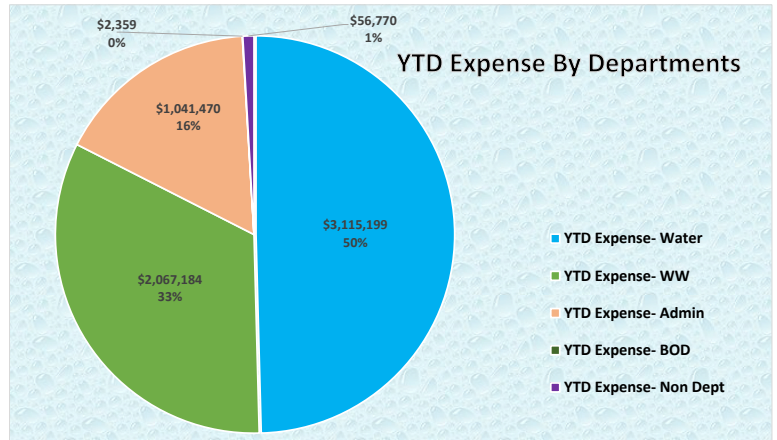
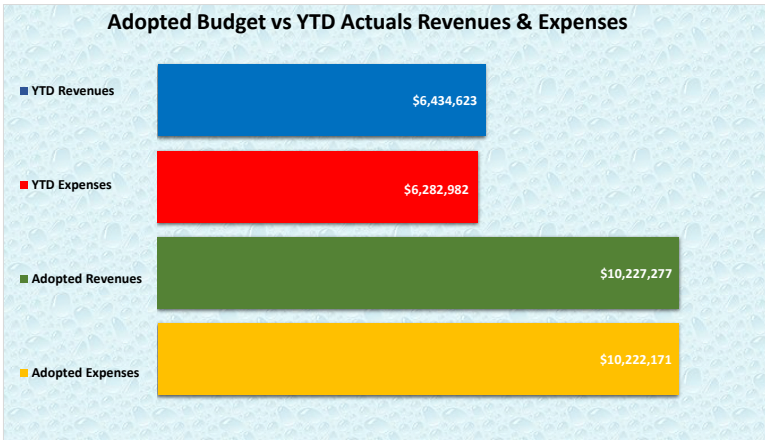
Administration							
135-50005-030-000	Salaries & Wages	626,592	626,592	39,575	370,098	59.07%	256,494
135-50010-030-000	Overtime	2,000	2,000		74	3.72%	1,926
135-50016-030-000	Longevity	2,668	2,668		2,668	100.00%	-
135-50020-030-000	Retirement	58,550	58,550	3,673	37,122	63.40%	21,429
135-50026-030-000	Medical Insurance	136,834	136,834	5,843	58,274	42.59%	78,560
135-50027-030-000	Dental Insurance	7,109	7,109	327	3,222	45.31%	3,888
135-50028-030-000	Vision Insurance	1,138	1,138	45	481	42.32%	656
135-50029-030-000	Life Insurance & Other	4,730	4,730	399	3,664	77.46%	1,066
135-50030-030-000	Social Security Taxes	39,138	39,138	2,310	21,877	55.90%	17,261
135-50035-030-000	Medicare Taxes	9,153	9,153	540	5,116	55.90%	4,037
135-50040-030-000	Unemployment Taxes	1,440	1,440		864	60.00%	576
135-50045-030-000	Workman's Compensation	1,573	1,573	129	1,157	73.52%	416
135-50060-030-000	Pre-emp Physicals/Testing	500	500		-	0.00%	500
135-50070-030-000	Employee Relations	8,000	8,000		3,320	41.51%	4,680
135-55005-030-000	Engineering	-	-		-	0.00%	-
135-55030-030-000	Software & Support	126,854	126,854	3,643	76,059	59.96%	50,795
135-55070-030-000	Independent Labor	15,000	15,000		13,573	90.49%	1,427
135-55080-030-000	Maintenance & Repairs	40,000	40,000	7,800	53,518	133.79%	(13,518)
135-55085-030-000	Generator Maintenance & Repairs	10,000	10,000		-	0.00%	10,000
135-55100-030-000	Building Maintenance & Supplies	-	-		-	0.00%	-
135-55120-030-000	Cleaning Services	15,000	15,000	1,738	13,642	90.95%	1,358
135-55160-030-000	Professional Outside Services	104,925	104,925	4,418	70,086	66.80%	34,839
135-55205-030-000	Utility Billing Contract	9,000	9,000	569	5,448	60.53%	3,552
135-60005-030-000	Telephone	9,680	9,680	534	6,143	63.46%	3,537
135-60010-030-000	Communications/Mobiles	3,000	3,000	225	2,025	67.50%	975
135-60020-030-000	Electricity	14,512	14,512	879	10,904	75.14%	3,608
135-60025-030-000	Water	5,000	5,000	369	2,658	53.16%	2,342
135-60035-030-000	Postage	30,000	30,000	1,652	16,094	53.65%	13,906
135-60040-030-000	Bank Service Charges & Fees	67,000	67,000	6,953	61,047	91.12%	5,953
135-60050-030-000	Bad Debt Expense	1,500	1,500		-	0.00%	1,500
135-60055-030-000	Insurance	84,000	84,000	6,725	60,524	72.05%	23,476
135-60066-030-000	Publications/Books/Subscripts	1,000	1,000	183	183	18.34%	817
135-60070-030-000	Dues & Memberships	6,000	6,000	160	5,946	99.09%	54
135-60075-030-000	Meetings	400	400		240	59.91%	160
135-60079-030-000	Public Education	6,000	6,000	1,481	3,063	51.05%	2,937
135-60080-030-000	Schools & Training	6,850	6,850		2,769	40.42%	4,081
135-60100-030-000	Travel & per diem	3,575	3,575	43	301	8.42%	3,274
135-60110-030-000	Physicals/Testing	200	200		-	0.00%	200
135-60115-030-000	Elections	5,000	5,000		9,330	186.60%	(4,330)
135-60125-030-000	Advertising	2,500	2,500		-	0.00%	2,500
135-60235-030-000	Security	1,288	1,288	48	240	18.63%	1,048
135-60245-030-000	Miscellaneous Expenses	500	500		392	78.40%	108
135-60246-030-000	General Manager Contingency	17,000	17,000		-	0.00%	17,000
135-60285-030-000	Lawn Equipment & Maintenance	5,000	5,000	470	2,603	52.07%	2,397
135-60360-030-000	Furniture/Equipment < \$5000	2,500	2,500		-	0.00%	2,500
135-65010-030-000	Uniforms	2,050	2,050		-	0.00%	2,050
135-65055-030-000	Hardware IT	20,253	20,253	1,400	20,339	100.42%	(86)
135-65085-030-000	Office Supplies	6,000	6,000	309	2,981	49.69%	3,019
135-65090-030-000	Printer Supplies & Maintenance	-	-		-	0.00%	-
135-65095-030-000	Maintenance Supplies	4,000	4,000	408	3,287	82.17%	713
135-65105-030-000	Printing	2,500	2,500		-	0.00%	2,500
135-69005-030-000	Capital Outlays	138,000	138,000	(7,800)	87,819	63.64%	50,181
135-69170-030-000	Copier Lease Installments	4,000	4,000	280	2,318	57.96%	1,682
	Subtotal Administration	1,669,510	1,669,510	85,327	1,041,470	62.38%	628,040

Non Departmental							
135-55045-039-000	Legal	135,000	135,000	2,763	22,975	17.02%	112,025
135-55055-039-000	Auditing	33,800	33,800		21,000	62.13%	12,800
135-55060-039-000	Appraisal	11,925	11,925	2,148	8,974	75.26%	2,951
135-55065-039-000	Tax Admin Fees	4,850	4,850		3,821	78.78%	1,029
	Subtotal Non Departmental	185,575	185,575	4,910	56,770	30.59%	128,805

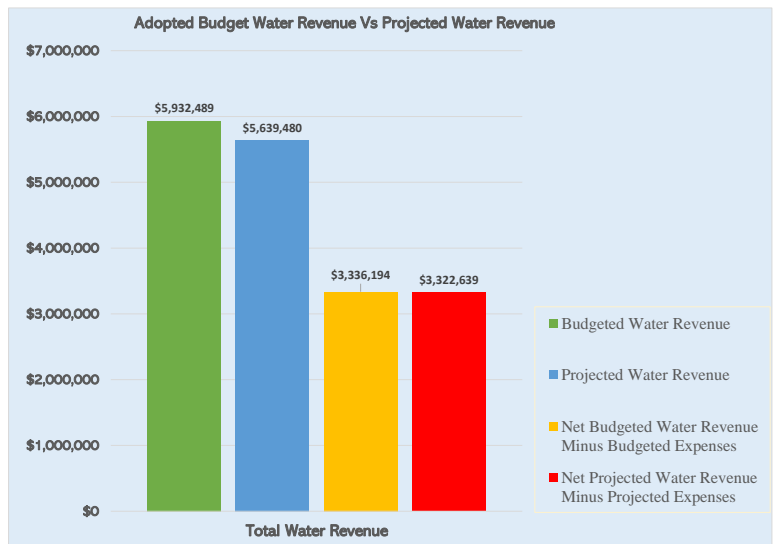
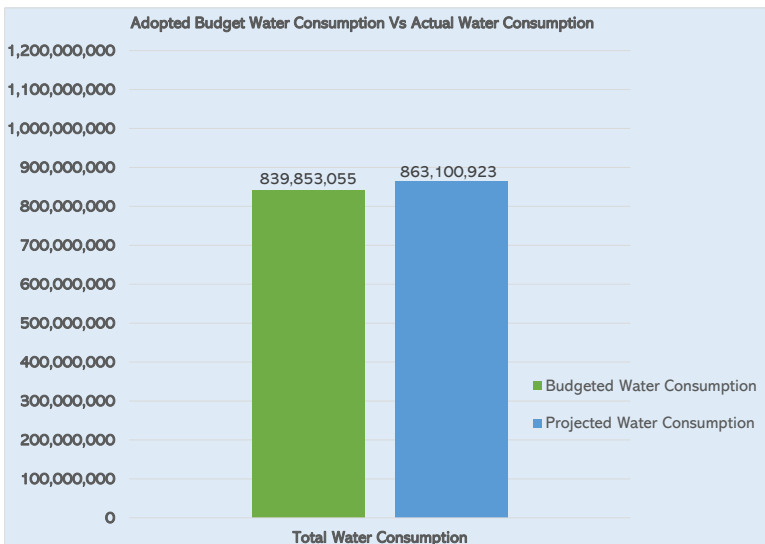
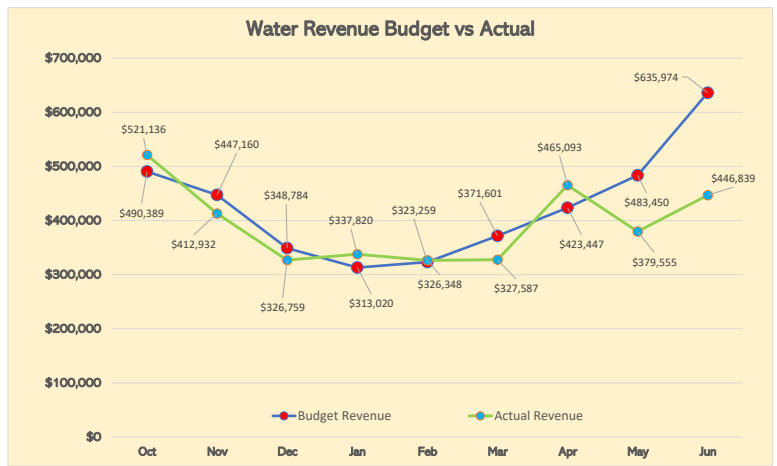
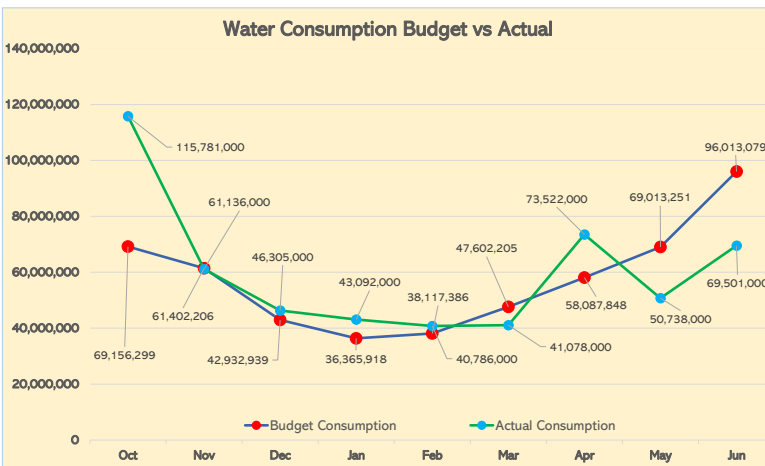
Total General Fund Revenues	10,227,277	10,227,277	780,965	6,434,623	62.92%	3,792,653
Total General Fund Expenses	10,222,170	10,222,170	649,935	6,282,982	61.46%	3,939,188
Net Budget Surplus (Deficit)	5,107	5,107	131,029	151,642	1.45%	

FY 2021 Combined Financials

YTD as of 06/30/2021



Water Budget vs Actual



**TROPHY CLUB MUD NO. 1 - FIRE DEPARTMENT
BALANCE SHEET
JUNE 2021**



122

ASSETS	FIRE DEPT.
CASH IN BANK	-
INVESTMENTS	892,894
PREPAID EXPENSES	4,947
ADVALOREM PROPERTY TAXES RECEIVABLE	37,801
EMERGENCY SERVICES ASSESSMENTS RECEIVABLE	-
UTILITY AND OTHER ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	<u>935,642</u>
LIABILITIES AND FUND BALANCE	
LIABILITIES	
DEFERRED REVENUE - PROPERTY TAXES/ASSESSMENTS	21,088
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	<u>21,088</u>
FUND BALANCE	
DESIGNATED FOR FUTURE ASSET REPLACEMENT	-
NON-SPENDABLE FUND BALANCE	-
UNASSIGNED FUND BALANCE	668,784
RESERVE FOR ENCUMBRANCES	-
NET REVENUES / EXPENDITURES	245,769
TOTAL FUND BALANCE	<u>914,554</u>
TOTAL LIABILITIES AND FUND BALANCE	<u>935,642</u>



**TROPHY CLUB MUD NO. 1 - O&M (GENERAL FUND)
BALANCE SHEET
JUNE 2021**

	135	137	
	GENERAL FUND	GASB	TOTAL
ASSETS			
CASH ON HAND	600	-	600
CASH IN BANK-CHECKING	3,696,234	-	3,696,234
CASH IN BANK-SAVINGS-CASH RESERVE	1,999,378	-	1,999,378
INVESTMENTS-TEXPOOL	3,624,443	2,007,484	5,631,926
PREPAID EXPENSES	30,407	-	30,407
ADVALOREM PROPERTY TAXES RECEIVABLE	4,019	-	4,019
UTILITY AND OTHER ACCOUNTS RECEIVABLE	1,010,273	-	1,010,273
TOTAL ASSETS	10,365,354	2,007,484	12,372,838
LIABILITIES AND FUND BALANCE			
LIABILITIES			
DEFERRED REVENUE - AD VALOREM PROPERTY TAXES	2,267	-	2,267
ACCOUNTS AND OTHER PAYABLES	726,186	-	726,186
CUSTOMER DEPOSITS	312,135	-	312,135
TOTAL LIABILITIES	1,040,587	-	1,040,587
FUND BALANCE			
NON-SPENDABLE FUND BALANCE	3,486		3,486
ASSIGNED FUND BALANCE	2,404,829		2,404,829
ASSIGNED FUND BALANCE/TOWN ELEVATED STORAGE TANK		315,000	315,000
ASSIGNED FUND BALANCE/WATER REPLACEMENT		460,899	460,899
ASSIGNED FUND BALANCE/SEWER REPLACEMENT		558,704	558,704
ASSIGNED FUND BALANCE/FIRE DEPARTMENT		472,881	472,881
ASSIGNED FUND BALANCE/WWTP MBR REPLACEMENT		200,000	200,000
UNASSIGNED FUND BALANCE	6,764,810	-	6,764,810
COMMITTED FUND BALANCE	-	-	-
NET REVENUES / EXPENDITURES	151,642	-	151,642
TOTAL FUND BALANCE	9,324,767	2,007,484	11,332,251
TOTAL LIABILITIES AND FUND BALANCE	10,365,354	2,007,484	12,372,838

**TROPHY CLUB MUD NO. 1 - WWTP TAX BOND CONST
BALANCE SHEET
JUNE 2021**



517

ASSETS	TAX BOND CONSTRUCTION
CASH IN BANK	-
INVESTMENTS	-
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	<hr/> <hr/> -
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	<hr/> <hr/> -
FUND BALANCE	
ASSIGNED FUND BALANCE	(199,119)
NET REVENUES / EXPENDITURES	199,119
TOTAL FUND BALANCE	<hr/> <hr/> -
TOTAL LIABILITIES AND FUND BALANCE	<hr/> <hr/> -

**TROPHY CLUB MUD NO. 1 - REVENUE BOND CONSTRUCTION
NSII FORT WORTH- SWIFT FUNDING
BALANCE SHEET
JUNE 2021**



519

ASSETS	REVENUE BOND CONSTRUCTION
CASH IN BANK	-
CASH IN ESCROW	785,025
INVESTMENTS	-
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	785,025
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	81,691
TOTAL LIABILITIES	81,691
FUND BALANCE	
ASSIGNED FUND BALANCE	703,276
NET REVENUES / EXPENDITURES	58
TOTAL FUND BALANCE	703,334
TOTAL LIABILITIES AND FUND BALANCE	785,025

**TROPHY CLUB MUD NO. 1 - 16" WATERLINE REV BOND
BALANCE SHEET
JUNE 2021**



FUND 520

**16" 2019
REVENUE BOND**

ASSETS	
CASH IN BANK	161,919
INVESTMENTS	3,892,813
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	4,054,732
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	-
FUND BALANCE	
ASSIGNED FUND BALANCE	4,151,382
NET REVENUES / EXPENDITURES	(96,650)
TOTAL FUND BALANCE	4,054,732
TOTAL LIABILITIES AND FUND BALANCE	4,054,732

**TROPHY CLUB MUD NO. 1 - REVENUE BOND RESERVE
BALANCE SHEET
JUNE 2021**



528

**REVENUE BOND
RESERVE**

ASSETS	
CASH IN BANK	-
INVESTMENTS	894,260
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	894,260
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	-
FUND BALANCE	
ASSIGNED FUND BALANCE	893,868
NET REVENUES / EXPENDITURES	392
TOTAL FUND BALANCE	894,260
TOTAL LIABILITIES AND FUND BALANCE	894,260

**TROPHY CLUB MUD NO. 1 - I&S (DEBT SERVICE)
BALANCE SHEET
JUNE 2021**



533

ASSETS	INTEREST & SINKING DEBT
CASH IN BANK	-
INVESTMENTS	907,582
PREPAID EXPENSES	-
ADVALOREM PROPERTY TAXES RECEIVABLE	21,133
ACCOUNTS RECEIVABLE-OTHER	-
TOTAL ASSETS	<u>928,715</u>
LIABILITIES AND FUND BALANCE	
LIABILITIES	64,064
DEFERRED REVENUE - AD VALOREM PROPERTY TAXES	11,530
ACCOUNTS AND OTHER PAYABLES	139
TOTAL LIABILITIES	<u>75,733</u>
FUND BALANCE	
ASSIGNED FUND BALANCE	(19,950)
NET REVENUES / EXPENDITURES	872,932
TOTAL FUND BALANCE	<u>852,982</u>
TOTAL LIABILITIES AND FUND BALANCE	<u>928,715</u>

**TROPHY CLUB MUD NO. 1 - REVENUE BOND I&S (WWTP)
BALANCE SHEET
JUNE 2021**



534

ASSETS	REVENUE BOND I&S WWTP
CASH IN BANK	-
INVESTMENTS	417,222
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	<u><u>417,222</u></u>
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	<u><u>-</u></u>
FUND BALANCE	
ASSIGNED FUND BALANCE	25,988
NET REVENUES / EXPENDITURES	391,234
TOTAL FUND BALANCE	<u><u>417,222</u></u>
TOTAL LIABILITIES AND FUND BALANCE	<u><u>417,222</u></u>

**TROPHY CLUB MUD NO. 1 - SWIFT REVENUE BOND I&S
BALANCE SHEET
JUNE 2021**



535

**NSII FTW SWIFT
REVENUE BOND
I&S**

ASSETS	
CASH IN BANK	-
INVESTMENTS	200,331
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	200,331
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	-
FUND BALANCE	
ASSIGNED FUND BALANCE	5,625
NET REVENUES / EXPENDITURES	194,706
TOTAL FUND BALANCE	200,331
TOTAL LIABILITIES AND FUND BALANCE	200,331

**TROPHY CLUB MUD NO. 1 - REVENUE BOND I&S
WATER & WASTEWATER SYSTEM 2019
BALANCE SHEET
JUNE 2021**



536

	REVENUE BOND SERIES 2019 I&S
ASSETS	
CASH IN BANK	-
INVESTMENTS	198,645
ACCOUNTS RECEIVABLE	-
TOTAL ASSETS	198,645
LIABILITIES AND FUND BALANCE	
LIABILITIES	
ACCOUNTS AND OTHER PAYABLES	-
TOTAL LIABILITIES	-
FUND BALANCE	
ASSIGNED FUND BALANCE	531
NET REVENUES / EXPENDITURES	198,114
TOTAL FUND BALANCE	198,645
TOTAL LIABILITIES AND FUND BALANCE	198,645

**REGULAR MEETING MINUTES
TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1
BOARD OF DIRECTORS
JUNE 16, 2021 at 6:30 P.M.**

Trophy Club Municipal Utility District No. 1 Board of Directors, of Denton and Tarrant Counties, met in a regular session meeting on Wednesday, June 16, 2021 at 6:30 P.M., in the Boardroom of the Administration Building, 100 Municipal Drive, Trophy Club, Texas 76262. The meeting was held within the boundaries of the District and was open to the public.

STATE OF TEXAS §
COUNTIES OF DENTON AND TARRANT §

BOARD MEMBERS PRESENT:

Steve Flynn	President
Mark Chapman	Vice President
Kelly Castonguay	Secretary/Treasurer
William C. Rose	Director
Kevin R. Carr	Director

STAFF PRESENT:

Alan Fourmentin	General Manager
Laurie Slaght	District Secretary
Mike McMahon	Operations Manager
Steven Krolczyk	Finance Manager
Tony Corbett	Legal Counsel

CALL TO ORDER AND ANNOUNCE A QUORUM

President Flynn announced the date of June 16, 2021, announced a quorum present and called the meeting to order at 6:30 p.m.

CITIZEN COMMENTS

There were no citizen comments

REPORTS & UPDATES

1. Staff Reports
 - a. Capital Improvement Projects
 - b. 2020 Consumer Confidence Report
 - c. Water Operations Report
 - d. Wastewater System Reports
 - e. Finance Reports

General Manager Alan Fourmentin presented the monthly staff reports and answered questions related thereto.

CONSENT AGENDA

2. Consider and act to approve the Consent Agenda.
 - a. May 2021 Combined Financials

- b. May 17, 2021 Regular Meeting Minutes
- c. Approve revised Personnel Policies
- d. Approve Task Order with Halff Associates for Sanitary Sewer Smoke Testing.

Director Rose removed item d. from the Consent Agenda for further discussion.

Director Carr requested that item c. be removed from the Consent Agenda for further discussion.

Motion made by Director Castonguay and seconded by Director Carr to approve items a. and b. on the Consent Agenda.

Motion carried unanimously

Motion made by Director Rose and seconded by Director Carr to approve Consent Agenda item d. Task Order with Halff Associates for Sanitary Sewer Smoke Testing for an amount not to exceed \$37,950 and authorize the General Manager to execute the necessary documents.

Motion carried unanimously

Motion made by Director Rose and seconded by Director Chapman to approve Consent Agenda item c. updated Personnel Policies.

For: Flynn, Rose, Chapman, and Castonguay

Opposed: Carr

Motion passed 4-1

REGULAR SESSION

- 3. Preliminary review and discussion of Fiscal Year 2022 Budget.

The General Manager and Finance Manager presented an updated preview of the Fiscal Year 2022 Budget and answered questions related thereto.

- 4. Consider and act regarding updates and modifications Lift Station No. 1.

The General Manager provided options and associated cost estimates for updates and modifications to Lift Station No. 1. The consensus of the Board is to maintain access and leave lift station No. 1 in its current location and use CIP funds to begin the rehabilitation project. The General Manager would like to start with an ingress-egress easement with the golf course, should an emergency occur that would allow access to the lift station with the caveat that we would repair and make whole any damage caused by the District. Attorney Corbett provided input that a sit-down with the golf course management would be the next step.

Direction only, no action taken

5. Presentation from legal counsel regarding bills of interest enacted by the Texas Legislature during its 2021 legislative session.

Attorney Corbett provided the Board an overview of relevant bills of interest enacted by the Texas Legislature during its 2021 legislative session.

6. Items for future agendas:

7. Set future Meeting dates:

- a. Joint Meeting/Regular Meeting - Tuesday, July 27, 2021 at 6:30 p.m.

The town has asked that the time of the meeting be moved to 5:30 p.m.

ADJOURN

President Flynn called the meeting adjourned at 7:55 p.m.

Steve Flynn, President

Kelly Castonguay, Secretary/Treasurer

(SEAL)

Laurie Slaght, District Secretary

Trophy Club Municipal Utility District No. 1

Quarterly Investment Report

For Ending Period 6/30/2021 (April, May, & June)

I certify that this Investment Report complies with requirements of TCMUD's Investment Policy and the Public Funds Act.	
Prepared By	DATE
Steven Krolczyk	
Investment Officer	DATE
Alan Fourmentin	

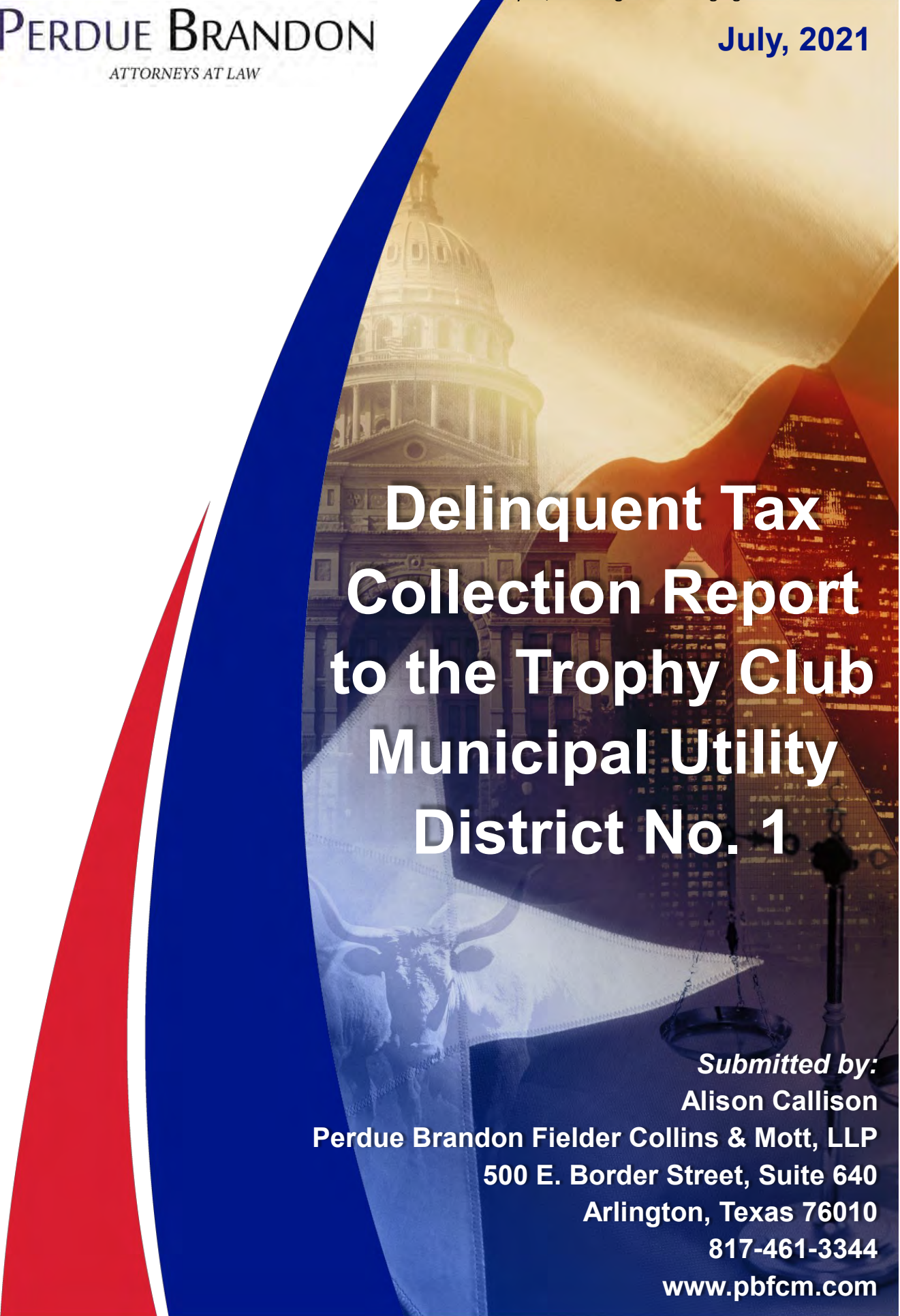
Restricted/ Unrestricted	Account or CUSIP	Sec Type	Par	Rate / Coupon	Maturity	Call Date	Purchase Price	Yield %	Beginning Book 3/31/2021	Beginning Market 3/31/2021	Ending Book 6/30/2021	Ending Market 6/30/2021	Gain/Loss End MV-End BV
Checking & Money Market Accounts													
Unrestricted- 135	XXX6372	Bank of the West Money Market Account	\$ -	0.000%	N/A	N/A	100.000	0.000%	\$ -	\$ -	\$ -	\$ -	0.00
Unrestricted- 135	XXX8701	Prosperity Bank Consolidated Cash-General Fund	\$ 3,696,234	0.000%	N/A	N/A	100.000	0.250%	\$ 3,040,738	\$ 3,040,738	\$ 3,696,234	\$ 3,696,234	0.00
Unrestricted- 122	XXX8701	Prosperity Bank Consolidated Cash-Fire Dept	\$ -	0.000%	N/A	N/A	100.000	0.250%	\$ -	\$ -	\$ -	\$ -	0.00
Restricted- 533	XXX8701	Prosperity Bank Consolidated Cash-Tax I&S	\$ -	0.000%	N/A	N/A	100.000	0.250%	\$ -	\$ -	\$ -	\$ -	0.00
Pools & Funds													
Unrestricted- 135	XXXXX0002	TexPool Municipal Fund-Operating	\$ 3,624,443	0.000%	N/A	N/A	100.000	0.016%	\$ 3,993,402	\$ 3,993,402	\$ 3,624,443	\$ 3,624,443	0.00
Restricted- 122		TexPool Municipal Fund-Fire Dept	\$ 892,894	0.000%	N/A	N/A	100.000	0.016%	\$ 1,003,493	\$ 1,003,493	\$ 892,894	\$ 892,894	0.00
Restricted- 137		TexPool Municipal Fund-GASB Replacement	\$ 2,007,484	0.000%	N/A	N/A	100.000	0.016%	\$ 2,007,484	\$ 2,007,484	\$ 2,007,484	\$ 2,007,484	0.00
Restricted- 533	XXXXX0003	TexPool Tax Debt Service	\$ 907,582	0.000%	N/A	N/A	100.000	0.016%	\$ 855,691	\$ 855,691	\$ 907,582	\$ 907,582	0.00
Restricted- 517	XXXXX00011	TexPool W/W Construction Tax	\$ -	0.000%	N/A	N/A	100.000	0.016%	\$ -	\$ -	\$ -	\$ -	0.00
Restricted- 534	XXXXX00013	Texpool Revenue Bond I&S	\$ 417,222	0.000%	N/A	N/A	100.000	0.016%	\$ 253,347	\$ 253,347	\$ 417,222	\$ 417,222	0.00
Restricted- 528	XXXXX00014	Texpool Revenue Bond Reserve	\$ 894,260	0.000%	N/A	N/A	100.000	0.016%	\$ 894,232	\$ 894,232	\$ 894,260	\$ 894,260	0.00
Restricted- 519	XXXXX00015	Texpool Revenue Bond Construction-SWIFT	\$ -	0.000%	N/A	N/A	100.000	0.016%	\$ -	\$ -	\$ -	\$ -	0.00
Restricted- 535	XXXXX00017	Texpool Revenue Bond I&S-SWIFT	\$ 200,331	0.000%	N/A	N/A	100.000	0.016%	\$ 125,599	\$ 125,599	\$ 200,331	\$ 200,331	0.00
Restricted- 520	XXXXX00018	Texpool Revenue Bond Construction Series 2019	\$ 161,919	0.000%	N/A	N/A	100.000	0.016%	\$ 242,224	\$ 242,224	\$ 161,919	\$ 161,919	0.00
Restricted- 536	XXXXX00020	Texpool Revenue Bond I&S Series 2019	\$ 198,645	0.000%	N/A	N/A	100.000	0.016%	\$ 95,281	\$ 95,281	\$ 198,645	\$ 198,645	0.00
Savings Accounts													
Restricted	XXXXX7724	Prosperity Bank Cash Reserve- Money Mkt	\$ 1,999,378	0.000%	N/A	N/A	100.000	0.300%	\$ 1,997,883	\$ 1,997,883	\$ 1,999,378	\$ 1,999,378	0.00
Escrow/ Treasuries													
Restricted- 519	82-1747-01-1	Revenue Bond Series 2016 Escrow- BOK	\$ 785,025					0.01%	\$ 785,006	\$ 785,006	\$ 785,025	\$ 785,025	0.00
Restricted- 520	82-3288-01-4	Revenue Bond Series 2019 Escrow- BOK	\$ 3,892,813					0.01%	\$ 3,892,721	\$ 3,892,721	\$ 3,892,813	\$ 3,892,813	0.00
CD'S													
NONE													
US Agencies													
NONE													
\$ 19,678,229									\$ 19,187,101	\$ 19,187,101	\$ 19,678,229	\$ 19,678,229	\$

EARNINGS SUMMARY

Restricted/ Unrestricted	Settle Date	Sec Type	Account Number	Par	Coupon	Maturity	Qtr. Accrued	Qtr. Amort.	Total Qtr. Earnings
Checking & Money Market Accounts									
Unrestricted- 135		Prosperity Bank Consolidated Cash-General Fund	XXX8701	\$ 3,696,234	N/A	N/A	\$ 2,148	N/A	\$ 2,148
Unrestricted- 122		Prosperity Bank Consolidated Cash-Fire Dept	XXX8701	\$ -	N/A	N/A	\$ -	N/A	\$ -
Restricted- 533		Prosperity Bank Consolidated Cash-Tax I&S	XXX8701	\$ -	N/A	N/A	\$ -	N/A	\$ -
Pools & Funds									
Unrestricted		TexPool Municipal Fund	XXXXX0002	\$ 6,524,820	N/A	N/A	\$ 208	N/A	\$ 208
Restricted- 533		TexPool Tax Debt Service	XXXXX0003	\$ 907,582	N/A	N/A	\$ 27	N/A	\$ 27
Restricted- 517		TexPool Construction Tax	XXXXX00011	\$ -	N/A	N/A	\$ -	N/A	\$ -
Restricted- 534		Texpool Revenue Bond I&S	XXXXX00013	\$ 417,222	N/A	N/A	\$ 10	N/A	\$ 10
Restricted- 528		Texpool Revenue Bond Reserve	XXXXX00014	\$ 894,260	N/A	N/A	\$ 27	N/A	\$ 27
Restricted- 519		Texpool Revenue Bond Construction-SWIFT	XXXXX00015	\$ -	N/A	N/A	\$ -	N/A	\$ -
Restricted- 535		Texpool Revenue Bond I&S-SWIFT	XXXXX00017	\$ 200,331	N/A	N/A	\$ 5	N/A	\$ 5
Restricted- 520		Texpool Revenue Bond Construction Series 2019	XXXXX00018	\$ 161,919	N/A	N/A	\$ 6	N/A	\$ 6
Restricted- 536		Texpool Revenue Bond I&S Series 2019	XXXXX00020	\$ 198,645	N/A	N/A	\$ 4	N/A	\$ 4
Savings Accounts									
Restricted		Prosperity Bank Cash Reserve- Money Mkt	XXXXX7724	\$ 1,999,378	N/A	N/A	\$ 1,495	N/A	\$ 1,495
Escrows/ Treasuries									
Restricted- 519		Revenue Bond Series 2016 Escrow- BOK	82-1747-01-1	\$ 785,025	N/A	N/A	\$ 19	N/A	\$ 19
Restricted- 520		Revenue Bond Series 2019 Escrow- BOK	82-3288-01-4	\$ 3,892,813	N/A	N/A	\$ 92	N/A	\$ 92
CD'S									
NONE									
US Agencies									
NONE									
							\$ 4,041	N/A	\$ 4,041

PAR for this report is the statement balance on the last day of the quarter

July, 2021



**Delinquent Tax
Collection Report
to the Trophy Club
Municipal Utility
District No. 1**

Submitted by:

Alison Callison

Perdue Brandon Fielder Collins & Mott, LLP

500 E. Border Street, Suite 640

Arlington, Texas 76010

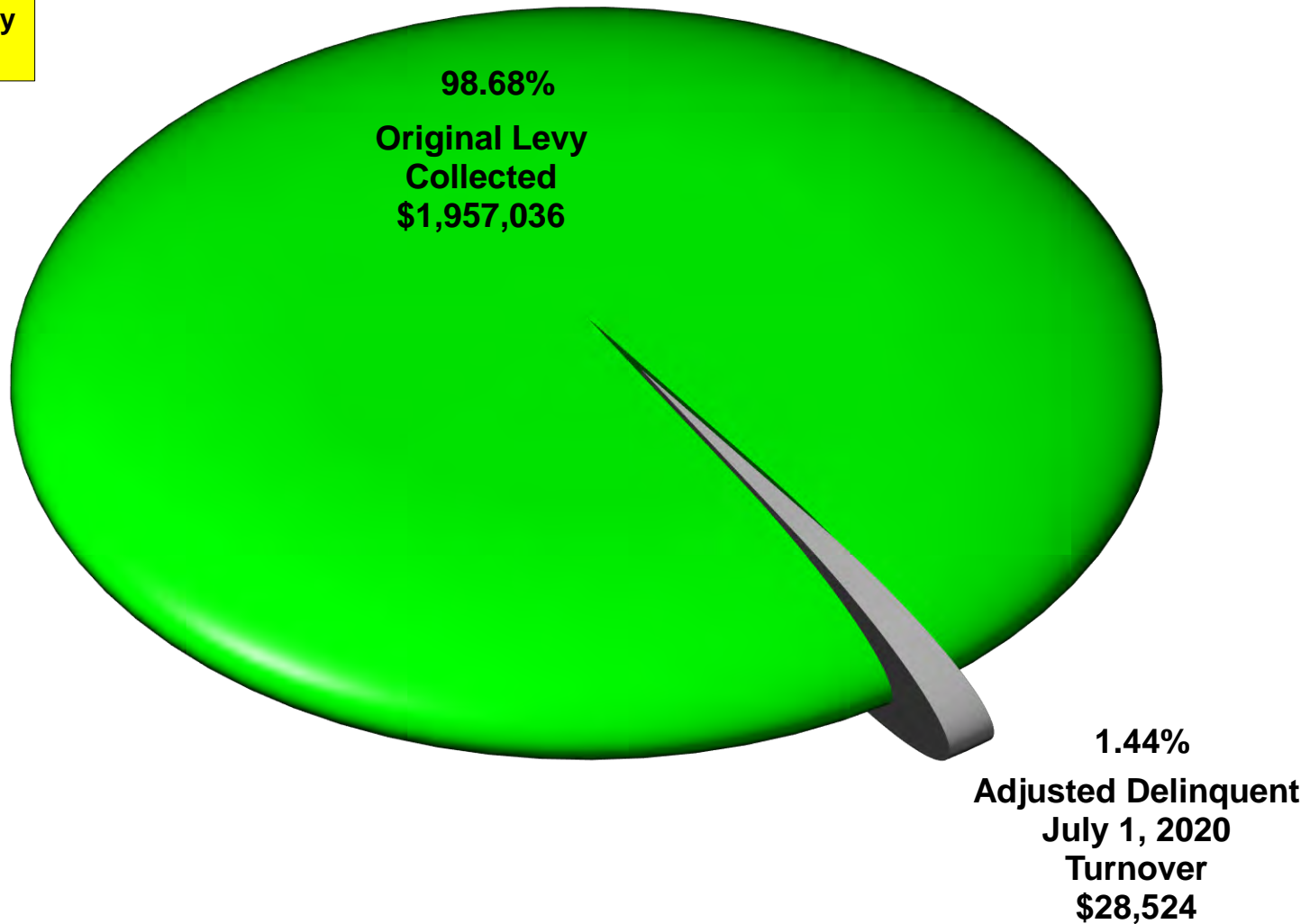
817-461-3344

www.pbfc.com

TROPHY CLUB MUNICIPAL UTILITY DISTRICT No. 1

2019 Tax Year Analysis

**Original 2019
Tax Year Levy
\$1,985,560**

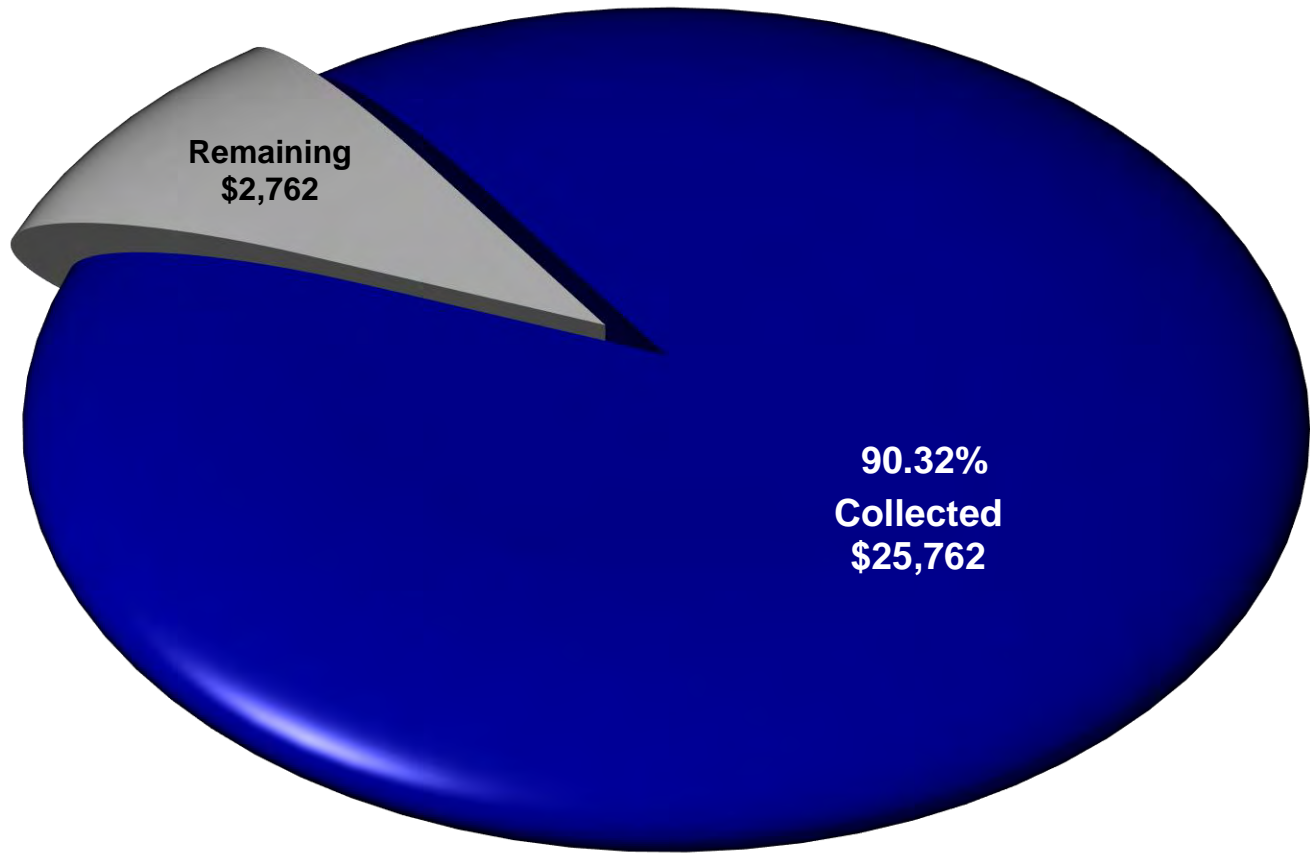


Source: Denton County Tax Office, Year-To-Date Summary Reports. **Perdue, Brandon, Fielder, Collins & Mott, L.L.P.**

TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1

Delinquent Tax Collections for the 2019 Tax Year

Collections from 7/1/2020 thru 6/30/2021



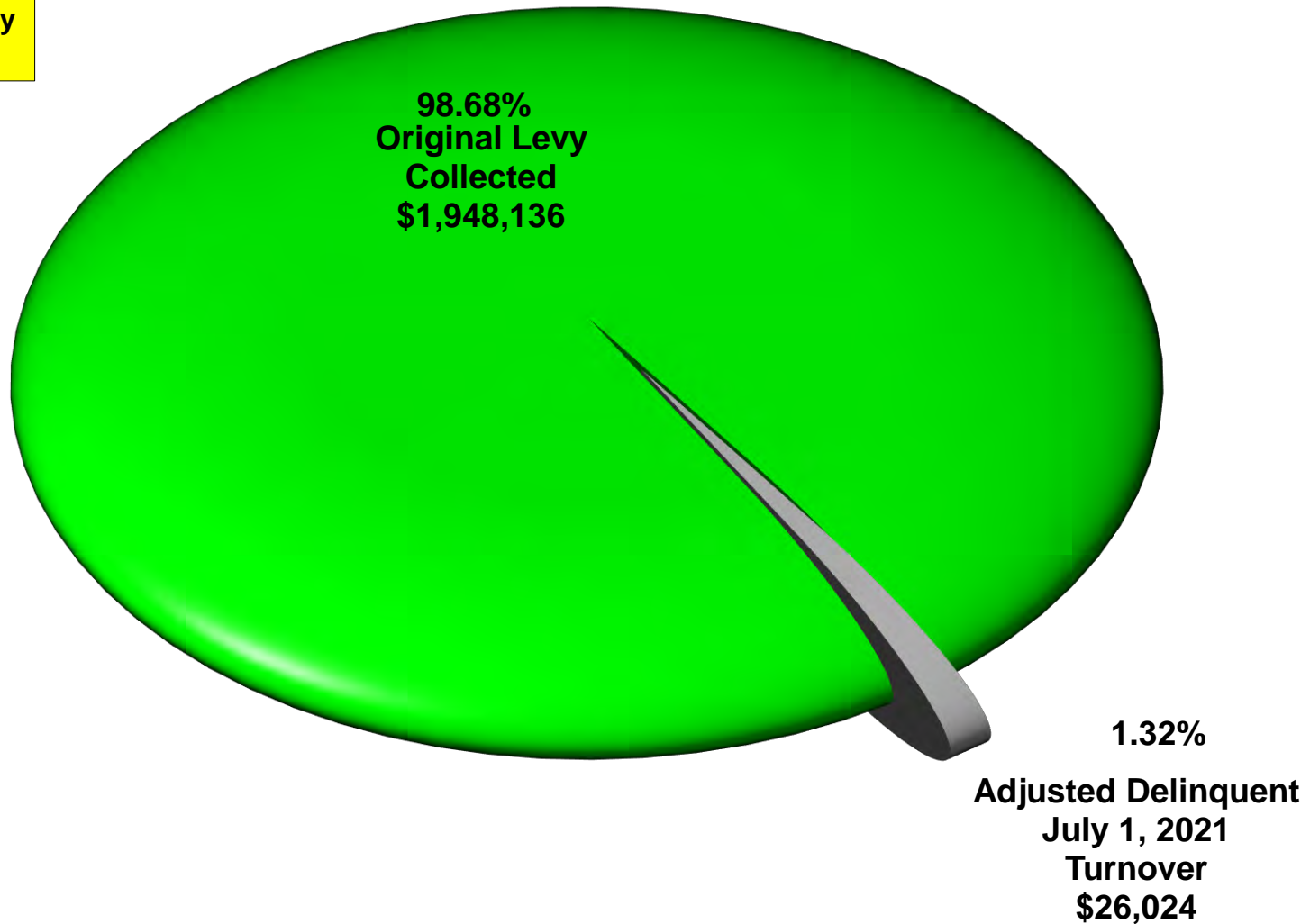
**Adjusted
Delinquent
July 1, 2020
Turnover
\$28,524**

Source: Denton County Tax Office, Year-To-Date Summary Reports. Collections and Turnover Account for Adjustments and Refunds. Base Taxes Only - No Penalties or Interest Added.
Perdue, Brandon, Fielder, Collins & Mott, L.L.P.

TROPHY CLUB MUNICIPAL UTILITY DISTRICT No. 1

2020 Tax Year Analysis

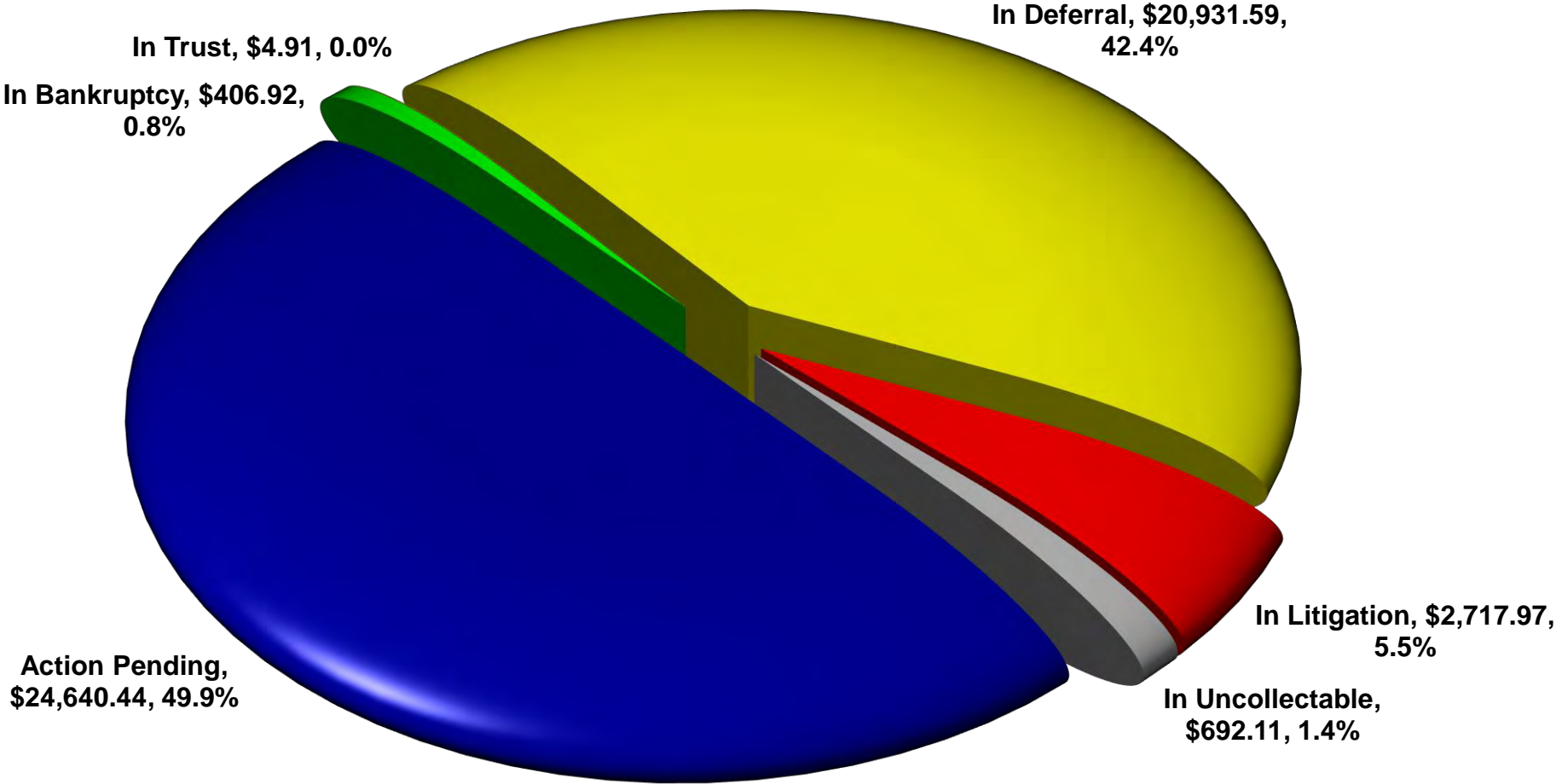
**Original 2020
Tax Year Levy
\$1,974,160**



Source: Denton County Tax Office, Year-To-Date Summary Reports. **Perdue, Brandon, Fielder, Collins & Mott, L.L.P.**

Trophy Club Municipal Utility District No. 1

Analysis of Delinquent Tax Roll - Status of Outstanding Accounts



Action Pending Accounts: Payment Agreements, Notification Letters, Telephone Collections, Lienholder Notification, Address Research, Title Research, Property Inspection.

As of July 2, 2021 there was \$49,394 in base taxes due on 120 accounts. Source: Denton County Tax Office tape download.



AUTHORITY ACTIVITY ANALYSIS

TROPHY CLUB MUNICIPAL UTILITY DISTRICT #1 As Of 7/2/2021, Tax Years Between 1997 And 2020

Description	# Properties	Pct Of Total	Base Tax Amount	Pct Of Total
In Bankruptcy	1	0.81%	\$406.92	0.82%
In Trust	5	4.03%	\$4.91	0.01%
In Deferral	9	7.26%	\$20,931.59	42.38%
In Litigation	6	4.84%	\$2,717.97	5.50%
In Partial Pay	0	0.00%	\$0.00	0.00%
In Uncollectable	19	15.32%	\$692.11	1.40%
In Bad Address	6	4.84%	\$602.07	1.22%
Action Pending	78	62.90%	\$24,038.37	48.67%
Totals	124	100.00%	\$49,393.94	100.00%

Dollar Range	# Properties	Pct Of Total	Base Tax Amount	Pct Of Total
\$0.01 - \$100.00	71	59.17%	\$1,173.61	2.38%
\$100.01 - \$250.00	6	5.00%	\$1,123.80	2.28%
\$250.01 - \$500.00	20	16.67%	\$6,928.20	14.03%
\$500.01 - \$1000.00	9	7.50%	\$6,449.56	13.06%
\$1000.01 - \$2500.00	11	9.17%	\$17,213.58	34.85%
\$2500.01 - \$5000.00	2	1.67%	\$8,517.99	17.25%
\$5000.01 - \$10,000.00	1	0.83%	\$7,987.20	16.17%
Totals	120	100.00%	\$49,393.94	100.00%

Year	# Transaction	Pct Of Total	Base Tax Amount	Pct Of Total
2006	1	0.49%	\$306.84	0.62%
2007	1	0.49%	\$517.32	1.05%
2008	1	0.49%	\$530.21	1.07%
2009	1	0.49%	\$495.08	1.00%
2010	11	5.34%	\$2,972.78	6.02%
2011	12	5.83%	\$2,377.37	4.81%
2012	8	3.88%	\$1,913.91	3.87%
2013	10	4.85%	\$2,077.28	4.21%
2014	14	6.80%	\$2,266.55	4.59%
2015	15	7.28%	\$1,973.87	4.00%
2016	11	5.34%	\$1,956.33	3.96%
2017	11	5.34%	\$986.34	2.00%
2018	17	8.25%	\$2,234.01	4.52%
2019	20	9.71%	\$2,761.91	5.59%
2020	73	35.44%	\$26,024.14	52.69%
Totals	206	100.00%	\$49,393.94	100.00%

Top Tax Due Report

Top 100 Percent Properties - TROPHY CLUB MUNICIPAL UTILITY DISTRICT #1

GEO Code	Legal Description			
209674DEN	THE ESTATES OF HOGANS GLEN PH II BLK 1 LOT 6 ACRES: 0.495700			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
799	BAKER BOB J	2010-2016	\$7,987.20	\$12,881.84
72060DEN	TROPHY CLUB # 6 LOT 499 ACRES: 0.384000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
76	MCDONALD JAMES E & HUESTIS LAURA LEA TR	2006-2018	\$4,508.02	\$7,515.49
71012DEN	TROPHY CLUB #10 LOT 1219 ACRES: 0.235000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
968	BOREN BENJAMIN C & BEVERLY C	2010-2019	\$3,608.13	\$4,951.57
11514221TAR	DIEGO'S TEX MEX KITCHEN PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
59	SUMMERS, JAMES M	2010-2014	\$1,355.94	\$3,527.63
71779DEN	TROPHY CLUB # 2 LOT 77 ACRES: 0.253600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91176	PARROW JAMES J & ELENA	2017-2019	\$1,214.34	\$1,359.47
72277DEN	TROPHY CLUB # 3 LOT 174 ACRES: 0.256100			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
914	MORTON DENVER & JANIE	2018-2019	\$745.09	\$1,099.95
650109DEN	PERSONAL PROPERTY - DENTIST LOCATION: 925 TROPHY CLUB DR TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90829	MEMBERS ONLY DENTAL PA	2018-2019	\$726.47	\$1,180.95
70173DEN	TROPHY CLUB OAK HILL LOT 15 ACRES: 0.164400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91396	RYAN BRUCE E & SHELIA A	2018-2019	\$634.36	\$695.75
14692614TAR	MAR-COSINA TEX-MEX GOURMET LLC PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92145	MAR-COSINA TEX-MEX GOURMET LLC	2018-2019	\$439.91	\$622.91
72370DEN	TROPHY CLUB # 2 LOT 141 ACRES: 0.301400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1750	LYNCH HELEN M	2018-2019	\$324.21	\$461.23
620602DEN	PERSONAL PROPERTY - DENTIST OFFICE LOCALTON : 301 TROPHY LAKE DR STE 120, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1560	BURGAR BRANDON	2013-2014	\$310.41	\$728.06
926478DEN	PERSONAL PROPERTY - CHIROPRACTOR LOCATION : 100 TROPHY CLUB DR. STE 108 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1242	FORD LESLIE	2012-2017	\$304.07	\$644.29
339971DEN	PERSONAL PROPERTY - AIRCRAFT CESSNA 150L 1972-N5428Q LOCATION : NORTHWEST			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
759	MORRISON AVIATION LLC	2010-2019	\$297.43	\$664.94
11514205TAR	WEINBERGERS DELICATESSEN PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
58	WEINBERGER DELI TWO LLC	2016-2019	\$297.12	\$512.05
13741209TAR	OLIVER WYMAN INC PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91516	OLIVER WYMAN INC	2019	\$119.13	\$185.84

469054DEN	PERSONAL PROPERTY - RETAIL STORE LOCATION: 301 TROPHY LAKE DR STE 124, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1184	VERIZON	2011-2013	\$82.41	\$211.07
676474DEN	PERSONAL PROPERTY - DRY CLEANERS LOCATION: 2003 SH 114 STE 390 TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90856	J.A.E.H.K. INC	2018-2019	\$69.77	\$113.59
336817DEN	PERSONAL PROPERTY - DRY CLEANERS DROP OFF LOCATION : 2003 SH 114 STE 390, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1164	WALJI SHANIF M	2014-2015	\$45.93	\$101.13
116514DEN	TROPHY CLUB #12 LOT 1559 ACRES: 0.262600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1626	GARD JEFFERY L & MARGARET PONIG	2018	\$39.09	\$66.61
633172DEN	PERSONAL PROPERTY - AUDIOLOGISTS LOCATION: 501 TROPHY LAKE DR, STE 318, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1730	EARCARE HEARING AIDS	2014-2015	\$35.18	\$77.47
10374248TAR	BUSINESS PERSONAL PROPERTY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
57	J P TALBOT INSURANCE	2010-2011	\$24.07	\$67.03
336821DEN	PERSONAL PROPERTY - OFFICE LOCATION : 100 INDIAN CREEK DR STE 120, ROANOKE			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
741	MIJOL REALTY.COM	2010-2011	\$20.36	\$56.76
563646DEN	PERSONAL PROPERTY - MISC PERSONAL SERVICE LOCATION: 2003 SH 114 STE 340 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1711	STYLES OF INDIA	2015-2016	\$20.23	\$41.64
13442112TAR	HEART TEST LABORATORIES PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91068	HEART TEST LABORATORIES INC	2017-2019	\$18.73	\$31.98
499622DEN	PERSONAL PROPERTY - HAIR SALON LOCATION: 2001 W SH 114, STE 150, TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1530	DESIRE SALON & SPA	2013	\$16.51	\$40.02
682747DEN	PERSONAL PROPERTY - RESTAURANT LOCATION: 301 TROPHY LAKE DR STE 116 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91619	7 MILES TASTE GROUP INC	2019	\$14.43	\$22.51
953826DEN	PERSONAL PROPERTY - REALTY OFFICE LOCATION: 2001 SH114 # 150 TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
129	REMAX INTEGRITY	2010	\$13.95	\$39.84
953825DEN	PERSONAL PROPERTY - SALON & SPA LOCATION: 2001 SH114 # 120 TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
887	TONY CAO SALON & SPA	2011	\$13.48	\$36.56
930792DEN	PERSONAL PROPERTY - TITLE COMPANY LOCATION: 99 TROPHY CLUB DR, TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
103	FIDELITY NATIONAL TITLE	2010	\$12.86	\$36.73
11457732TAR	BUSINESS PERSONAL PROPERTY THOMAS PART *RVN10/7/08 PRNL OFF. BIZ LOCA 9 PER PH			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
190	WHITTON CONSTRUCTION INC	2011	\$11.56	\$31.35
336819DEN	PERSONAL PROPERTY - OFFICE LOCATION : 100 INDIAN CREEK DR, TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
740	CJ HOOD CO INC	2010	\$10.73	\$30.64
336868DEN	PERSONAL PROPERTY - LEASED EQUIPMENT			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90710	CATALINA MARKETING CORPORATION	2019	\$9.08	\$14.16

925240DEN	PERSONAL PROPERTY - LEGAL SERVICE LOCATION : 100 INDIAN CREEK, TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
875	CHRISTLIEB LAW OFFICE	2010-2011	\$5.37	\$14.97
723199DEN	PERSONAL PROPERTY - INSURANCE AGENT LOCATION: 2101 SH 114 STE B TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91433	MILLER CRAIG	2019	\$4.99	\$7.78
659388DEN	PERSONAL PROPERTY - BUSINESS SERVICES LOCATION: 99 TROPHY CLUB DR TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91141	CHIP MUNDY INC	2017	\$4.85	\$8.96
566115DEN	PERSONAL PROPERTY - BUSINESS SERVICES LOCATION: 99 TROPHY CLUB DR, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1555	DONNA & ASSOCIATES	2013	\$4.40	\$10.67
679913DEN	PERSONAL PROPERTY - OFFICE LOCATION: 99 TROPHY CLUB DR TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91389	SMITH CLINICAL SERVICES PLLC	2019	\$4.31	\$6.72
659398DEN	PERSONAL PROPERTY - BUSINESS SERVICES LOCATION: 99 TROPHY CLUB DR, TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90372	RAY DERSTEIN	2015	\$3.61	\$7.71
12675504TAR	D L PETERSON TRUST VARX COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90423	D L PETERSON TRUST	2015	\$2.88	\$6.05
13730967TAR	RANDSTAD RANDSTAD US LP PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90303	RANDSTAD US LP	2014-2015	\$2.76	\$5.97
116598DEN	TROPHY CLUB #12 LOT 1613 ACRES: 0.312200			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1628	TROPHY CLUB TOWN OF	2014	\$1.20	\$2.74
116600DEN	TROPHY CLUB #12 LOT 1614 ACRES: 0.243900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1628	TROPHY CLUB TOWN OF	2014	\$1.11	\$2.53
335713DEN	PERSONAL PROPERTY - OFFICE LOCATION: 99 TROPHY CLUB DR, TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1329	HELM INSURANCE AGENCY	2012	\$0.87	\$2.23
14370986TAR	FIRST DATA MERCHANT SVCS VARX COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90293	FIRST DATA MERCHANT SVCS INC	2015-2018	\$0.75	\$1.35
14461451TAR	DELL MARKETING LP VARX COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91207	DELL MARKETING LP	2016	\$0.61	\$1.12
624324DEN	A0821A J.R. MICHAEL TR 1A(2) .09 ACRES ACRES: 0.090000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1628	TROPHY CLUB TOWN OF	2014	\$0.52	\$1.19
624325DEN	A0821A J.R. MICHAEL TR 1A(3) .081 ACRES ACRES: 0.081000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1628	TROPHY CLUB TOWN OF	2014	\$0.46	\$1.05
42345560TAR	WESTLAKE ENTRADA BLOCK I LOT 13 REF PLAT D218192054			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91351	JJP TREVI LLC	2018	\$0.19	\$0.32
14381350TAR	SONIFI SOLUTIONS INC VARX COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1290	SONIFI SOLUTIONS INC	2015	\$0.15	\$0.28

Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
14358803TAR	AMERIGAS PROPANE LP VARX COMMERCIAL			
91045	AMERIGAS PROPANE LP	2015-2016, 2018	\$0.14	\$0.26
42346434TAR	WESTLAKE ENTRADA - CORTES BLOCK S LOT 2X OPEN SPACE ACRES: 0.028300			
91348	MRW INVESTORS LLC	2019	\$0.11	\$0.17
14479384TAR	RS WATER HOLDING LLC VARX COMMERCIAL			
354	RS WATER HOLDING LLC	2016	\$0.09	\$0.17
335711DEN	PERSONAL PROPERTY - OFFICE LOCATION: 99 TROPHY CLUB DR, TROPHY CLUB			
1163	FULL CIRCLE LOGISTICS	2011	\$0.07	\$0.19
13661787TAR	NATIONAL DEFAULT TITLE PERSONAL PROPERTY TANGIBLE COMMERCIAL			
1638	NATIONAL DEFAULT TITLE SERVICE	2017	\$0.07	\$0.13
14448870TAR	NEOPOST USA INC VARX COMMERCIAL			
91049	NEOPOST USA INC	2015	\$0.04	\$0.08
72300DEN	TROPHY CLUB # 6 LOT 552 ACRES: 0.253600			
893	BULAND RUDY A	2017, 2019	\$0.02	\$0.03
203744DEN	LAKES OF TROPHY CLUB PH 3 BLK 1 LOT 6 ACRES: 0.276000			
91298	BRYANT CHRISTY LIVING TRUST	2018	\$0.01	\$0.02
198454DEN	LAKES OF TROPHY CLUB PH 1 BLK 5 LOT 11 ACRES: 0.160300			
91092	VILORIA PHILIP A & JOANNE	2019	\$0.01	\$0.01
754842DEN	PERSONAL PROPERTY - LOCATION; POOL CONSTRUCTION; 41 ALAMOS DR ROANOKE			
91688	WATER SCAPES INC	2019	\$0.01	\$0.02
			Total Tax Due \$23,369.80	

Top Tax Due Report

Top 100 Percent Properties - TROPHY CLUB MUNICIPAL UTILITY DISTRICT #1

GEO Code	Legal Description			
42110635TAR	GRANADA BLOCK A LOT 76 ACRES: 0.555900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90742	AMOS JOSEPH D AND AMOS DELECIA B	2020	\$2,370.28	\$3,356.32
650035DEN	TROPHY CLUB COMMONS A CONDOMINIUM UNIT 3 PLUS 13.0723% INT IN COMM ELEMENTS			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91138	FOREFATHERS HOLDING COMPANY LLC	2020	\$2,128.50	\$3,013.96
42110601TAR	GRANADA BLOCK A LOT 73 ACRES: 0.689200			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90741	MICHELSSEN PETER AND MICHELSSEN RACHEL	2020	\$2,100.93	\$2,974.92
583049DEN	THE KNOLL BLK 1 LOT 6R1 ACRES: 0.900400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91604	GIRGIS SILAS A III & ARTESIA	2020	\$1,880.08	\$2,662.19
07652534TAR	WESTLAKE/SOUTHLAKE PARK #1 BLOCK 2 LOT 1R2 ACRES: 1.722000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92148	BOY SCOUTS OF AMERICA	2020	\$1,278.39	\$1,810.20
631100DEN	THE HIGHLANDS AT TROPHY CLUB NHD 4-THE ISLE OF TURNBERRY BLK A LOT 11 ACRES:			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90822	BARBARIN REGINALD ANTHONY & LASHARNDR	2020	\$1,131.41	\$1,602.08
660574DEN	WONDERLAND PLAZA ADDITION BLK A LOT 1 ACRES: 2.280000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91144	WONDERLAND PLAZA LLC	2020	\$1,105.57	\$1,512.42
726658DEN	TROPHY CLUB TOWN CENTER ADDITION BLK A LOT 4 ACRES: 2.297000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91437	JLIS LLC	2020	\$970.22	\$1,327.26
42424699TAR	WESTLAKE ENTRADA BLOCK I LOT 14R ACRES: 0.043900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91578	JJP TREVI LLC	2020	\$845.53	\$1,197.27
526108DEN	CHURCHILL DOWNS BLK B LOT 4 ACRES: 0.253900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92816	YE FAN & XIAO LIANG	2020	\$727.25	\$994.88
526096DEN	CHURCHILL DOWNS BLK A LOT 1 ACRES: 0.258300			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
895	SEAY MARK SR & TERRI	2020	\$558.11	\$790.28
187337DEN	EAGLES RIDGE PH I LOT 9 ACRES: 0.350400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92229	DICKSON HOLLY & DAVID	2020	\$548.14	\$776.17
72114DEN	TROPHY CLUB # 4 LOT 355 ACRES: 0.332900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92831	POWELL CALLEEN M	2020	\$501.66	\$686.27
206501DEN	THE VILLAS OF HOGANS GLEN BLK C LOT 1 ACRES: 0.180700			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90344	MCGIBONEY DANIEL S & LORI K	2020	\$469.64	\$665.01
71115DEN	TROPHY CLUB #10 LOT 1261 ACRES: 0.276100			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92827	ALDERSON BENJAMIN D & JODI L	2020	\$443.96	\$607.34

07578806TAR	PEA, WM H SURVEY ABSTRACT 2025 TRACT 2D SCHOOL BOUNDARY SPLIT ACRES: 4.620000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91239	FMR TEXAS LTD PRTNSHP	2020	\$433.65	\$614.05
72370DEN	TROPHY CLUB # 2 LOT 141 ACRES: 0.301400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1750	LYNCH HELEN M	2020	\$412.63	\$421.21
72259DEN	TROPHY CLUB # 3 LOT 169 ACRES: 0.381800			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91429	ZADEH SUSAN	2020	\$411.01	\$581.99
72034DEN	TROPHY CLUB # 4 LOT 333 ACRES: 0.361600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1219	BINGHAM GENE C	2020	\$406.92	\$576.20
71779DEN	TROPHY CLUB # 2 LOT 77 ACRES: 0.253600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91176	PARROW JAMES J & ELENA	2020	\$404.55	\$412.96
71012DEN	TROPHY CLUB #10 LOT 1219 ACRES: 0.235000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
968	BOREN BENJAMIN C & BEVERLY C	2020	\$401.84	\$410.20
42402431TAR	WESTLAKE ENTRADA BLOCK D LOT 1 ACRES: 0.760700			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92380	AMR WESTLAKE VILLAS LLC	2020	\$401.59	\$568.65
660732DEN	VILLAS OF HOGAN'S GLEN PHASE II BLK 2 LOT 15 ACRES: 0.294000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91712	HICKS ROYCE	2020	\$394.54	\$539.73
72277DEN	TROPHY CLUB # 3 LOT 174 ACRES: 0.256100			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
914	MORTON DENVER & JANIE	2020	\$393.99	\$402.19
650109DEN	PERSONAL PROPERTY - DENTIST LOCATION: 925 TROPHY CLUB DR TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90829	MEMBERS ONLY DENTAL PA	2020	\$378.04	\$535.30
929551DEN	PERSONAL PROPERTY - BANK LOCATION : 353 TROPHY LAKE DR TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92723	BANK OF AMERICA NA	2020	\$361.02	\$511.20
40757978TAR	TROPHY CLUB # 3 LOT 245 ACRES: 0.340700			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92372	MATTHEWS CHRISTI AND HINSLEY TODD	2020	\$355.54	\$503.44
70913DEN	TROPHY CLUB #10 LOT 1297 ACRES: 0.296600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92585	SPERRY MARCIA	2020	\$339.38	\$480.56
73499DEN	THE SUMMIT (TROPHY CLUB) BLK 2 LOT 1 ACRES: 0.120000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90970	STILLWELL TRENTON	2020	\$301.00	\$426.22
929539DEN	PERSONAL PROPERTY - DRY CLEANERS LOCATION: 301 TROPHY LAKE DR #104 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
277	TROPHY CLUB CLEANERS	2020	\$300.14	\$425.00
70173DEN	TROPHY CLUB OAK HILL LOT 15 ACRES: 0.164400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91396	RYAN BRUCE E & SHELIA A	2020	\$296.29	\$302.45
71072DEN	TROPHY CLUB # 8 LOT 638 ACRES: 0.260900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1209	JONES DEBORAH ANN	2020	\$288.66	\$408.74

40759601TAR	VILLAS AT TROPHY CLUB, THE BLOCK 1 LOT 9 ACRES: 0.143000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92375	PERKINS SHAWN F TR	2020	\$269.70	\$381.90
189787DEN	LAKESIDE AT TROPHY CLUB BLK B LOT 1 ACRES: 0.229400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90619	WILLIAMS JEFFREY O & LARISSA	2020	\$264.63	\$374.72
71548DEN	TROPHY CLUB VILLAGE WEST SEC B LOT 1020 ACRES: 0.184800			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91422	CROY JEFFERY F	2020	\$254.52	\$360.40
40758087TAR	TROPHY CLUB # 9 LOT 704 BALANCE IN DENTON CO ACRES: 0.229600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92373	RUDD MATTHEW DAVID AND RUDD KAYLENE SIMM	2020	\$213.68	\$302.57
70407DEN	TROPHY CLUB OAK HILL LOT 65 ACRES: 0.202000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90902	OSTEEN PAMELA	2020	\$199.00	\$281.78
42616733TAR	WESTLAKE ENTRADA BLOCK C LOT 1B SCHOOL BOUNDARY SPLIT ACRES: 0.513000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92381	AMR WESTLAKE STORAGE LLC	2020	\$192.60	\$272.72
14692614TAR	MAR-COSINA TEX-MEX GOURMET LLC PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92145	MAR-COSINA TEX-MEX GOURMET LLC	2020	\$191.25	\$270.81
308358DEN	EAGLES RIDGE PH II BLK A LOT 4 ACRES: 0.312300			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91719	LINN R CURTIS & ELLEN M	2020	\$180.59	\$247.05
13741209TAR	OLIVER WYMAN INC PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91516	OLIVER WYMAN INC	2020	\$113.86	\$161.23
754448DEN	TROPHY CLUB OAK HILL LOT 63R ACRES: 0.378000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92833	ELLIOTT CAPITAL LTD	2020	\$98.92	\$135.32
40758990TAR	TROPHY CLUB # 9 LOT 793 ACRES: 0.311300			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90726	HAMATI SASAN AND KARAMI PARVIN	2020	\$94.81	\$134.25
42616725TAR	WESTLAKE ENTRADA BLOCK C LOT 1B SCHOOL BOUNDARY SPLIT ACRES: 0.197000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92381	AMR WESTLAKE STORAGE LLC	2020	\$73.96	\$104.73
72112DEN	TROPHY CLUB # 4 LOT 354 353(W22') ACRES: 0.407600			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90954	ADDINGTON TERI	2020	\$68.89	\$97.55
776375DEN	PERSONAL PROPERTY - ACCOUNTING AUDITING & BOOKKEEPING LOCATION : 99 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92697	KENNETH ARMSTRONG	2020	\$60.45	\$85.60
336365DEN	PERSONAL PROPERTY - LEASED VEHICLES			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92366	MOTORLEASE CORPORATION	2020	\$58.53	\$82.88
499804DEN	PERSONAL PROPERTY - HOBBY SHOP LOCATION: 501 TROPHY LAKE DR STE 314 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
1352	THE SASSY FLAMINGO	2020	\$52.21	\$73.93
676471DEN	PERSONAL PROPERTY - DOG TRAINING/RETAIL LOCATION: 2001 SH 114 STE 200 TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90854	HANNICK INC	2020	\$49.06	\$69.47

676474DEN	PERSONAL PROPERTY - DRY CLEANERS LOCATION: 2003 SH 114 STE 390 TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90856	J.A.E.H.K. INC	2020	\$35.17	\$49.80
40777545TAR	LAKE FOREST VILLAGE ADDN LOT 83 BALANCE IN DENTON CO ACRES: 0.142400			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90729	CLARKSON NIKOLE AND CLARKSON BART THOMAS	2020	\$32.32	\$45.77
754842DEN	PERSONAL PROPERTY - LOCATION; POOL CONSTRUCTION; 41 ALAMOSA DR ROANOKE			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91688	WATER SCAPES INC	2020	\$28.01	\$39.66
14689532TAR	CROSSFIT SPT PERSONAL PROPERTY TANGIBLE COMMERCIAL			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92190	CROSSFIT SPT	2020	\$24.07	\$34.08
339971DEN	PERSONAL PROPERTY - AIRCRAFT CESSNA 150L 1972-N5428Q LOCATION : NORTHWEST			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
759	MORRISON AVIATION LLC	2020	\$23.27	\$32.95
05243327TAR	PEA, WM H SURVEY ABSTRACT 2025 TRACT 2A SCHOOL BOUNDARY SPLIT ACRES: 0.200000			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91239	FMR TEXAS LTD PRTNSHP	2020	\$18.77	\$26.58
07579586TAR	MEDLIN, WILSON SURVEY ABSTRACT 1958 TRACT 5A02A SCHOOL BOUNDARY SPLIT ACRES:			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91239	FMR TEXAS LTD PRTNSHP	2020	\$18.77	\$26.58
776376DEN	PERSONAL PROPERTY - BUSINESS SERVICES LOCATION : 99 TROPHY CLUB STE DR TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92698	MICHAEL ARNOLD	2020	\$14.22	\$20.14
776374DEN	PERSONAL PROPERTY - BUSINESS SERVICES LOCATION : 99 TROPHY CLUB STE DR TROPHY			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92696	STEVE SCHERMERHORN	2020	\$14.22	\$20.14
72047DEN	TROPHY CLUB # 4 LOT 339 ACRES: 0.324900			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92606	HENDERSON GREGORY H & KERRI D	2020	\$10.28	\$14.56
676479DEN	PERSONAL PROPERTY - DANCE & MUSIC LESSONS LOCATION: 905 TROPHY CLUB DR STE 204			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90858	FULLER CHRISTINA	2020	\$7.25	\$10.27
71828DEN	TROPHY CLUB # 2 LOT 84 ACRES: 0.253700			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91723	HENRY DAVID & KAREN TRUST	2020	\$4.91	\$6.72
723199DEN	PERSONAL PROPERTY - INSURANCE AGENT LOCATION: 2101 SH 114 STE B TROPHY CLUB			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91433	MILLER CRAIG	2020	\$4.77	\$6.75
338512DEN	PERSONAL PROPERTY - LEASED EQUIPMENT			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92368	COINSTAR ASSET HOLDINGS LLC	2020	\$3.09	\$4.38
676473DEN	PERSONAL PROPERTY - PERSONAL TRAINER SERVICES LOCATION: 2003 SH 114 STE 90			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90855	THE FORCE BY LUKE	2020	\$2.42	\$3.43
42617756TAR	WESTLAKE/SOUTHLAKE PARK #1 BLOCK 2 LOT 3B ROW ACRES: 0.149800			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92382	WESTLAKE TOWN OF	2020	\$1.62	\$2.29
705191DEN	PERSONAL PROPERTY - LEASED EQUIPMENT			
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
90846	NCR CORPORATION	2020	\$1.01	\$1.43

727270DEN PERSONAL PROPERTY - INSURANCE OFFICE LOCATION: 100 INDIAN CREEK DR STE 110				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
92609	FOLEY BEVERLY	2020	\$1.00	\$1.42
70606DEN LAKE FOREST VILLAGE PH 3 LOT 84 ACRES: 0.280100				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
73	MCCREARY JON & WATTHANAVICHIT DANIEL	2020	\$0.93	\$0.95
314763DEN PERSONAL PROPERTY - LEASED EQUIPMENT				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
298	NORTHERN LEASING SYSTEMS INC	2020	\$0.68	\$0.96
07578857TAR PEA, WM H SURVEY ABSTRACT 2025 TRACT 2C01 ACRES: 0.080000				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91239	FMR TEXAS LTD PRTNSHP	2020	\$0.11	\$0.16
07579497TAR MEDLIN, WILSON SURVEY ABSTRACT 1958 TRACT 5A04A ACRES: 0.100000				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91239	FMR TEXAS LTD PRTNSHP	2020	\$0.11	\$0.16
308380DEN EAGLES RIDGE PH II BLK B LOT 5 ACRES: 0.305700				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91720	HAFIZ ARIF & FATIMA LIVING TRUST	2020	\$0.01	\$0.01
71254DEN TROPHY CLUB VILLAGE WEST SEC A LOT 943 ACRES: 0.192800				
Taxpayer #	Taxpayer Name	Years	Tax Due	Total Due
91216	DEVITO DONALD J & EVELYN F	2020	\$0.01	\$0.01
			Total Tax Due	\$26,024.14

Deferral Detail Report

Locator: Denton Tax

Clients: Trophy Club MUD 1

TP #	Taxpayer Name								Base Due
799	BAKER BOB J								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
209674DEN	Trophy Club MUD 1	2010	DEFE	TAX	07/08/2011	12/01/2099	pre	\$1,650.27	
209674DEN	Trophy Club MUD 1	2011	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$1,172.50	
209674DEN	Trophy Club MUD 1	2012	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$986.42	
209674DEN	Trophy Club MUD 1	2013	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$959.74	
209674DEN	Trophy Club MUD 1	2014	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$1,059.05	
209674DEN	Trophy Club MUD 1	2015	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$1,089.73	
209674DEN	Trophy Club MUD 1	2016	DEFE	TAX	07/08/2011	12/01/2099	Defer	\$1,069.49	
Property Base Due								\$7,987.20	
Taxpayer Base Due								\$7,987.20	
91396	RYAN BRUCE E & SHELIA A								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
70173DEN	Trophy Club MUD 1	2018	DEFE	TAX	10/23/2018	12/01/2099	Defer	\$329.43	
70173DEN	Trophy Club MUD 1	2019	DEFE	TAX	10/23/2018	12/01/2099	Defer	\$304.93	
70173DEN	Trophy Club MUD 1	2020	DEFE	TAX	10/23/2018	12/01/2099	Defer	\$296.29	
Property Base Due								\$930.65	
Taxpayer Base Due								\$930.65	
73	MCCREARY JON & WATTHANAVICHIT DANIEL								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
70606DEN	Trophy Club MUD 1	2020	DEFE	TAX	02/03/2020	12/01/2099	Defer	\$0.93	
Property Base Due								\$0.93	
Taxpayer Base Due								\$0.93	
968	BOREN BENJAMIN C & BEVERLY C								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
71012DEN	Trophy Club MUD 1	2010	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$414.60	
71012DEN	Trophy Club MUD 1	2011	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$378.65	
71012DEN	Trophy Club MUD 1	2012	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$295.79	
71012DEN	Trophy Club MUD 1	2013	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$300.56	
71012DEN	Trophy Club MUD 1	2014	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$325.30	
71012DEN	Trophy Club MUD 1	2015	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$355.07	
71012DEN	Trophy Club MUD 1	2016	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$367.89	
71012DEN	Trophy Club MUD 1	2017	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$385.38	
71012DEN	Trophy Club MUD 1	2018	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$380.30	
71012DEN	Trophy Club MUD 1	2019	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$404.59	
71012DEN	Trophy Club MUD 1	2020	DEFE	TAX	06/30/2010	12/01/2099	Defer	\$401.84	
Property Base Due								\$4,009.97	
Taxpayer Base Due								\$4,009.97	
91216	DEVITO DONALD J & EVELYN F								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
71254DEN	Trophy Club MUD 1	2020	DEFE	TAX	06/11/2010	12/01/2099	Defer	\$0.01	
Property Base Due								\$0.01	
Taxpayer Base Due								\$0.01	
91176	PARROW JAMES J & ELENA								
GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax	
71779DEN	Trophy Club MUD 1	2017	DEFE	TAX	11/03/2017	12/01/2099	Defer	\$385.31	
71779DEN	Trophy Club MUD 1	2018	DEFE	TAX	11/03/2017	12/01/2099	Defer	\$412.53	
71779DEN	Trophy Club MUD 1	2019	DEFE	TAX	11/03/2017	12/01/2099	Defer	\$416.50	
71779DEN	Trophy Club MUD 1	2020	DEFE	TAX	11/03/2017	12/01/2099	Defer	\$404.55	
Property Base Due								\$1,618.89	
Taxpayer Base Due								\$1,618.89	

76 MCDONALD JAMES E & HUESTIS LAURA LEA TR

GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax
72060DEN	Trophy Club MUD 1	2006	DEFE	TAX	01/25/2007	12/01/2099	pre	\$306.84
72060DEN	Trophy Club MUD 1	2007	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$517.32
72060DEN	Trophy Club MUD 1	2008	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$530.21
72060DEN	Trophy Club MUD 1	2009	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$495.08
72060DEN	Trophy Club MUD 1	2010	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$460.80
72060DEN	Trophy Club MUD 1	2011	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$405.50
72060DEN	Trophy Club MUD 1	2012	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$329.59
72060DEN	Trophy Club MUD 1	2013	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$331.12
72060DEN	Trophy Club MUD 1	2014	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$346.81
72060DEN	Trophy Club MUD 1	2015	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$378.34
72060DEN	Trophy Club MUD 1	2016	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$400.74
72060DEN	Trophy Club MUD 1	2017	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$5.37
72060DEN	Trophy Club MUD 1	2018	DEFE	TAX	01/25/2007	12/01/2099	Defer	\$0.30
Property Base Due								\$4,508.02
Taxpayer Base Due								\$4,508.02

914 MORTON DENVER & JANIE

GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax
72277DEN	Trophy Club MUD 1	2018	DEFE	TAX	03/24/2020	12/01/2099	pre	\$340.65
72277DEN	Trophy Club MUD 1	2019	DEFE	TAX	03/24/2020	12/01/2099	pre	\$404.44
72277DEN	Trophy Club MUD 1	2020	DEFE	TAX	03/24/2020	12/01/2099	Defer	\$393.99
Property Base Due								\$1,139.08
Taxpayer Base Due								\$1,139.08

1750 LYNCH HELEN M

GEO Code	Client Name	Tax Year	Status	Tran Type	Start Date	End Date	Condition	Base Tax
72370DEN	Trophy Club MUD 1	2018	QPAY	TAX	10/21/2020	12/01/2099	pre	\$6.04
72370DEN	Trophy Club MUD 1	2019	QPAY	TAX	10/21/2020	12/01/2099	pre	\$318.17
72370DEN	Trophy Club MUD 1	2020	DEFE	TAX	10/21/2020	12/01/2099	Defer	\$412.63
Property Base Due								\$736.84
Taxpayer Base Due								\$736.84
Total Base Due								\$20,931.59

TROPHY CLUB MUNICIPAL UTILITY DISTRICT #1	pre	\$3,026.41
TROPHY CLUB MUNICIPAL UTILITY DISTRICT #1	Defer	\$17,905.18



TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1 RISK & RESILIENCE ASSESSMENT

Prepared for the Trophy Club Municipal Utility District No. 1

**AVO 38683
June 2021**

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Appendix A: VSAT Analysis

Appendix B: Trophy Club Municipal Utility District No. 1 Water Utility Survey

Executive Summary

Trophy Club Municipal Utility District No. 1 (District) provides nearly 12,000 water customers in the Dallas-Fort Worth Metroplex with 2.3 Million Gallons/Day (MGD) of drinking water. During peak demands, water consumption can reach up to 6.2 MGD. The District purchases drinking water from the City of Fort Worth Water Department that is delivered through a metered 21" transmission line to the District's ground storage tanks at their pump station. The District supplements their purchased water with groundwater provided by four District-owned wells. The District does not convey drinking water to any interconnected systems.

This Risk and Resilience Assessment (RRA) identifies the assets that are critical to providing a safe and reliable water supply to the District's customers, as well as the threat scenarios that may compromise the Utility's ability to perform that key function. The RRA evaluates which threats are most likely to occur and to have the greatest potential impact on the Utility's existing water assets. Metrics that were used to evaluate the vulnerability of particular utility assets are associated with:

- potential loss of life or serious injury;
- economic disruption;
- loss of confidence in the Utility;
- impacts to the environment

To provide a general measure of the resilience of the District's water system with respect to peer utilities nationwide, Halff worked with the District to develop a Utility Resilience Index (URI). This Index is a risk management tool that assesses a utility's capability to respond to and recover from an incident that impacts its critical operations. This analysis is intended for use alongside the risk assessments of individual system components to develop an overall risk management plan. The URI for the District is 69%. This score can continue to improve as the Utility develops plans like the Emergency Response Plan (ERP), which will be prepared by December 2021.

Based on analysis of materials provided by the District, a survey distributed to District stakeholders and a meeting of the Stakeholders Advisory Committee (SAC), the District identified these Critical Assets for further assessment:

- Purchased finished water
- Groundwater wells
- Pump Station
- Distribution system storage facilities
- Chemical Storage for secondary water treatment
- IT systems associated with distribution (SCADA) and billing

Threats determined to pose the greatest risks to these assets were selected based on historical records associated with natural hazards data to identify threats of concern as well as nationally derived factors determining probability of experiencing a malevolent threat. Threats evaluated include:

- Ice Storm (I4)
- Tornado (F3)
- Sabotage – Physical
- Physical Assault – Contractor Error
- Cyber-Attack on Business Enterprise Systems and Process Control Systems
- Contamination of Finished Water (intentional)
- Contamination to environment or personal injury (Accidental)
- Dependency – Key Suppliers

The RRA contains a quantitative ranking of the most severe consequences that may result from specific threats to the District's critical water assets. Consequences to consider include:

- Service interruption
- Financial loss
- Serious injury or fatalities
- Economic impact to the District and the customers in its service area

Based upon examination of all critical assets in the District's system and their vulnerability and essential nature, the Risk & Resilience Assessment (RRA) narrowed its focus to the following essential assets:

- Purchased finished water
- Offsite Groundwater Wells
- Pump Station
- Elevated Storage Tanks
- Chemical Storage
- IT system associated with distribution (SCADA)

Utility assets not included in this list are those that, even if functionally impaired, are unlikely to interrupt the flow of water in a way that cannot be compensated for elsewhere in the system.

Asset vulnerabilities were identified through the evaluation of existing asset data, the survey responses obtained from the SAC, examination of existing system plans, the Utility's operating procedures and financial management infrastructure.

The Risk and Resilience Assessment pairs the Utility's most critical assets with the threats most likely to affect the District's water system. These threat-asset pairs were used to produce a baseline RRA to identify areas with the greatest risk of producing a catastrophic outcome for the water utility. After producing the Baseline RRA, Halff Associates (Halff) worked with the Utility to identify a series of countermeasures with the potential to mitigate damage to water infrastructure while also protecting public health and safety.

The baseline calculation of risk for each threat scenario resulted in a full accounting of risks and projected financial impact for a wide range of hazards. Upon completion of the Baseline RRA, Halff reviewed the results with the District. Based on the outcome of this discussion, the District identified a number of 'countermeasures', or system improvements, that could result in reduced vulnerability to the water utility. The Baseline RRA was then modified to account for mitigation alternatives, demonstrating how the adoption of these solutions would result in operational and financial resiliency improvements to provide the District with greater public health and financial benefits. The outcome of this assessment process is an analysis of the value of undertaking the recommended improvements and a prioritized list of actionable risk reduction alternatives. This analysis of mitigation alternatives resulted in a ranking of the capital improvements with the greatest potential to reduce risk to the Utility.

Table ES.1 RRA Risk Score for Critical Assets

RRA Risk Score		
Asset – Threat Pairs	Monetized Risk	Mitigation Ranking
Purchased Water – Dependency, Key Suppliers	\$4,860	1
21” Transmission Line – Physical Assault	\$2,500	2
Pump Station – Ice Storm (I4)	\$742	3
Offsite Groundwater Wells – Contamination, Accidental	\$500	4
Chemical Storage – Contamination, Accidental	\$300	5
Chemical Storage – Sabotage, physical	\$125	6
Pump Station – Sabotage, physical	\$120	7
Elevated Storage Tanks – Ice Storm (I4)	\$106	8
SCADA – Cyber-Attack	\$60	9
Pump Station – Tornado, Fujita 3	\$2	10
Elevated Storage Tanks – Tornado, Fujita 3	\$0	11

The District water system is well situated to offset threats to most critical assets. Vulnerability is generally low, with the exception of the purchased water key supplier and contamination detection from the groundwater wells. The District is unlikely to have trouble providing water for an extended period of time, given existing system storage, therefore the loss of revenue to the Utility and overall regional economic impact are minimal during not prolonged emergencies.

1. Introduction to the Process

In October 2018, the passage of America's Water Infrastructure Act (AWIA) established the requirement that all community water systems serving a population of greater than 3,300 must comply with Environmental Protection Agency (EPA) requirements to prepare a Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP). The AWIA also requires these drinking water system providers prepare or revise their ERP to incorporate the findings from the RRA process. The deadlines for this mandate are based upon the size of the population served, with the first deadline for certification to the EPA based on the preparation of the RRA and the second for the update of the Emergency Response Plan. Based on the size of the population served by the District, the District's deadlines for certification are as follows.

Table 1.1 District Deadlines for EPA Certification

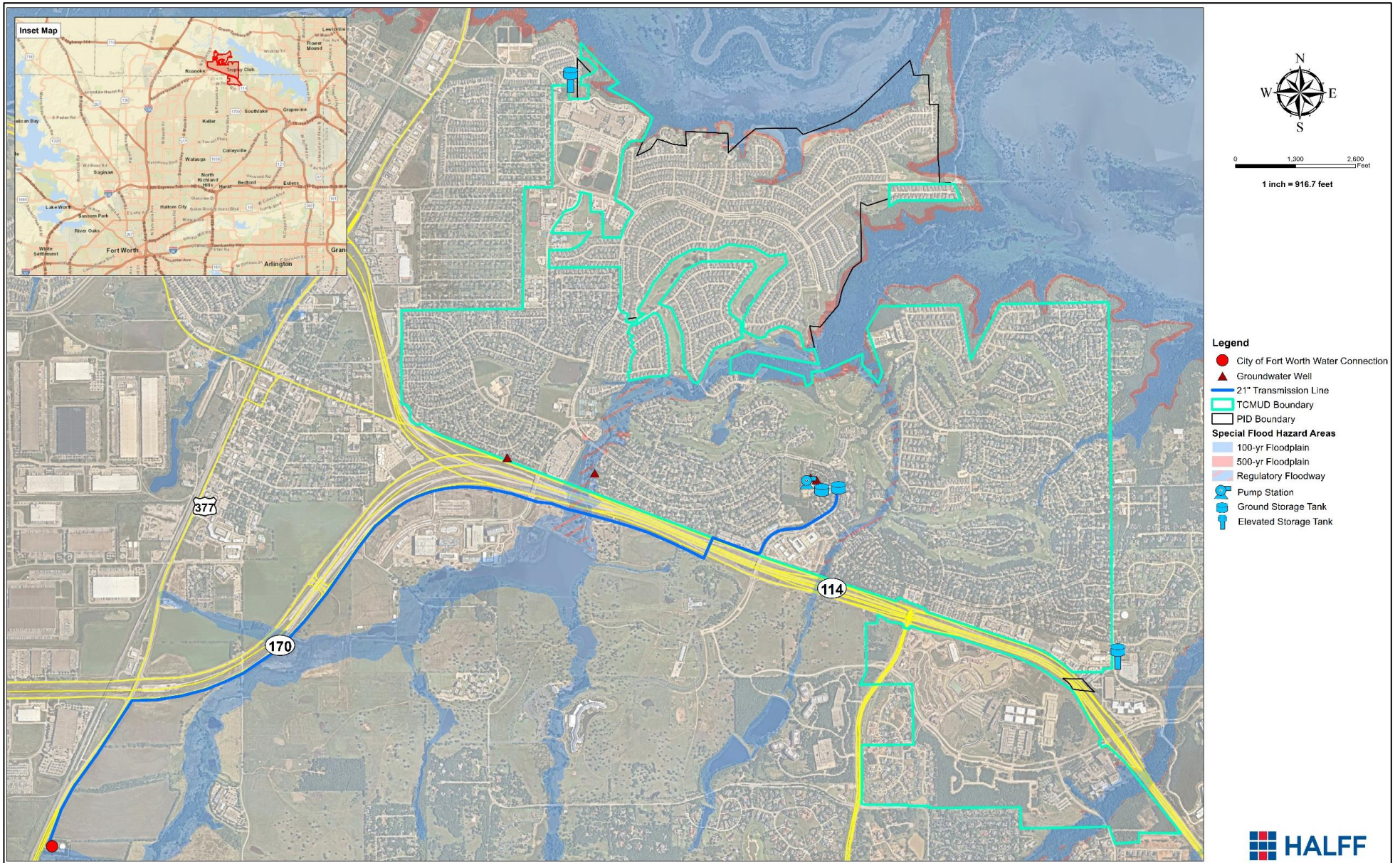
Utility Size	RRA	ERP
3,300 – 49,999	June 30, 2021	December 31, 2021

The AWIA legislation expanded the scope of issues addressed by the Bioterrorism Act of 2002, which Congress adopted in response to the terrorist attacks of September 11, 2001. In recognition that the USA's water supply was a potential point of weakness in our national defenses, the Bioterrorism Act required water utilities to conduct a Vulnerability Assessment of their assets and operations and to prepare an Emergency Response Plan. With the adoption of the AWIA the nation expanded scope of assessment to include natural, as well as man-made, hazards that might negatively affect the water system. The RRA identifies the critical assets of the Utility, the threats most likely to affect those assets and how the following components of a water utility can be made more resilient to a variety of hazards:

- Physical Barriers
- Source Water
- Pipes and Constructed Conveyances, Water Collection, and Intake
- Pretreatment and Treatment
- Storage and Distribution Facilities
- Electronic, Computer, or other Automated Systems
- Monitoring Practices
- Financial Infrastructure
- The Use, Storage, or Handling of Chemicals
- The Operation and Maintenance of the Utility

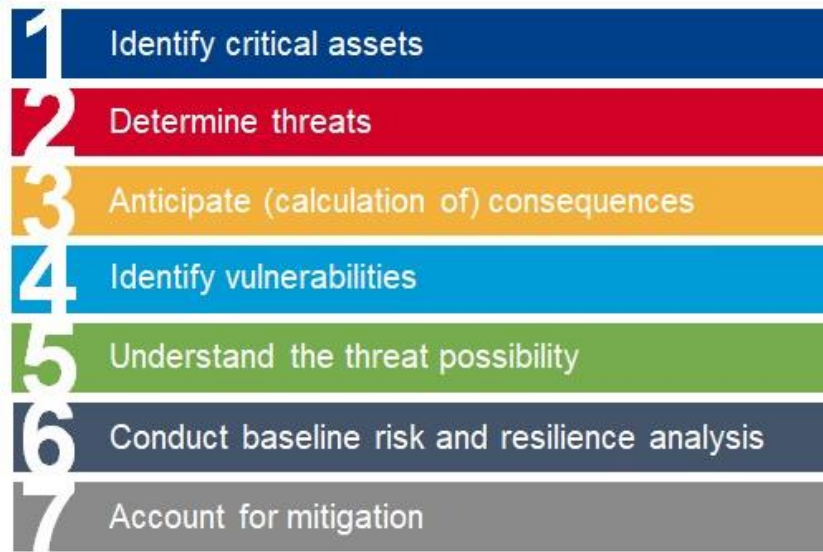
Threats facing the utility can be broken into natural hazards and malevolent threats. Natural hazards may include the effects of floods, hurricanes, tornadoes and ice storms among others. In this RRA, the ability of any natural hazard to impact the District's water system is considered in light of the expected frequency of the hazard type, and the likelihood that the impact of the disaster will have severe consequences to the District. The design specifications to withstand these events have also been included in the planning and construction of the Utility's assets.

For malevolent threats, including theft or diversion and sabotage of physical or cyber infrastructure, this RRA considers the impact of actions such as unauthorized access to storage and distribution facilities by either an "insider" with knowledge of and access to the Utility's resources, or an "outsider" to the process; a physical sabotage of Utility assets; the contamination of the water source by a chemical or biological process; and a virtual or cyberattack on the distribution system. The outcomes of both natural and malevolent hazards can include personal injury, interruption of supply chain, disruption in water service, financial loss through service disruption or cyber theft.



Map 1. Trophy Club Municipal Utility District No. 1 Water Service Area

Figure 1.2: J100 Risk & Resilience Assessment Method



1.1 Methodology

To determine how the District can become more resilient to both natural and malevolent hazards, Halff Associates (Halff) followed the process developed by American Waterworks Association (AWWA) known as the Risk and Resilience Management of Water and Wastewater Systems, or J100 for short. For the boundary of the area addressed by this RRA, please refer to Map 1.1 on the previous page. The District’s Assessment is built upon the following foundation:

- Data provided by the District about existing water utility assets, plans and procedures
- Survey of District staff responsible for management of and response to emergencies affecting the Utility (see Appendix B1)
- In-depth consultation with these stakeholders as a follow up to the survey process

Drawing upon the expertise of the Utility’s staff, and the water utility and hazards mitigation experience of the team dedicated to this project, the team focused this Assessment on the Utilities’ most critical assets and the hazards most likely to affect them. This process is described in Sections 2 and 3 to follow. Once the team identified and confirmed critical assets and threat hazards, the team used the EPA’s Vulnerability Self-Assessment Tool (VSAT) to analyze the likely impacts of potential threats to specific assets. The VSAT was developed collaboratively by the AWWA and the EPA to ensure a rigorous analysis of potential hazards, consequences and vulnerabilities and to help the Utility identify the components of the system most vulnerable to these hazards, while providing potential alternatives for mitigation.

The analysis produces estimates of three key factors that contribute to the final Risk and Resilience Assessment:

- *Threat*= Likelihood that the hazard will occur or be perpetrated against the asset based on communities with similar geography or characteristics
- *Vulnerability* = Likelihood that the threat will damage the asset
- *Consequences* = Economic cost to the utility and region and public health costs including potential injuries and deaths. A monetary value for injuries and deaths are assigned to injuries and deaths,

The result of the VSAT Assessment is defined by the calculation, below, which produces a single monetized value for each threat asset pair.

Risk (R) = Threat (T) x Vulnerability (V) x Consequences (C)

1.2 Utility Resilience Index

The Utility Resilience Index (URI) is a risk management tool that assesses a utility's capability to respond to and recover from an incident that impacts its critical operations. The intent of this analysis is to use it together with the risk assessments of individual system components to develop an overall risk management plan.

The URI is calculated based on 12 indicators which were entered into the EPA's VSAT system using three primary sources: the data provided by the District; responses to the Stakeholders survey; and the virtual Stakeholders Advisory Group meeting on March 24, 2021. Responses to each indicator are assigned values and weights which are aggregated to provide a characterization of a utility's resilience on a scale from 0% to 100%. A low URI score indicates that the utility is likely to experience some difficulty in responding to and recovering from an incident, while a high URI indicates a greater capability to do so.

The URI for the District is 69%, based upon an evaluation of the following factors:

1. Emergency Response Plan (ERP)

An ERP provides a tactical level plan for immediate response to incidents of all types. The statement below best describes the utility's ERP.

An ERP has been developed (This scoring criteria will be modified after the completion of the ERP in December)

2. National Incident Management System (NIMS) Compliance

NIMS establishes a common framework for defining roles and responsibilities to enhance incident response. NIMS applies the Incident Command System (ICS) to provide the support structure for response activities. The statement below best describes the utility's NIMS compliance.

ICS 700/800 provided to key staff

3. Mutual Aid and Assistance (MAA)

MAA agreements between other utilities and jurisdictions help to provide rapid response to incidents. Participation such agreements is traditionally at no cost and does not obligate signatories to respond. An example is the Water/Wastewater Agency Response Network (WARN). The statement below best describes the utility's MAA agreements.

Intrastate (e.g., WARN)

4. Emergency Power for Critical Operations (EPCO)

EPCO is a minimum benchmark of 72 hours for [immediate] backup power for critical operations and assets. The statement below best describes the utility's EPCO.

Greater than or equal to 73 hours of backup power

5. Minimum Daily Demand/Treatment (MDDT)

MDDT is the ability to meet minimum daily demand or treatment when the production or treatment plant is non-functional. For example, a drinking water utility typically has some level of in-system storage that can provide minimum daily flows for a time even if a treatment plant is non-functional. The statement below best describes the utility's MDDT.

Greater than or equal to 73 hours

6. Critical Parts and Equipment (CPA)

CPA is the lead time for repair, replacement, or recovery of operationally critical parts or equipment. Critical parts are defined as components of the system that upon failure may have the potential to impair the ability to produce, distribute, or treat drinking water or wastewater, including both physical and cyber/process control systems. The statement below best describes the utility's CPA.

Less than 24 hours

7. Critical Staff Resilience (CSR)

CSR is the percentage of response-capable staff who are cross-trained in critical operations and maintenance positions and available as staff backup. This indicator is primarily related to pandemic flu planning. The statement below best describes the utility's CSR.

Greater than 50 to 75%

8. Business Continuity Plan (BCP)

A BCP provides an overall indicator of a utility's commitment to integrating risk management principles into the management culture that supports their operations. These plans address the potential financial effects of a crisis, as well as the utility's flexibility to adapt human resource policies to meet the changing needs of employees. The statement below best describes the utility's BCP.

No BCP or unknown

9. Utility Bond Rating (UBR)

UBRs are assigned by Moody's and indicate a utility's ability and willingness to satisfy financial obligations. The rating includes five primary factors related to municipal finance, which include market position, financial position, debt levels, governance, and covenants. Some utilities may not have a bond rating since they do not seek additional investment capital from the market. The statement below best describes the utility's UBR.

AA

10. Government Accounting Standards Board (GASB) Assessment

A GASB Assessment determines how much infrastructure has been evaluated to provide an indication of the utility's overall commitment to proper asset management. The assessment coverage is calculated as: 100 x total number of critical assets categorized into condition categories divided by the total number of critical assets determined in the asset characterization step of the J100 standard.

61 to 80 % assessed

11. Unemployment*

Unemployment is a general socioeconomic indicator of a community's economic health. The Bureau of Labor Statistics (BLS) maintains a database of state and local rates (see <http://www.bls.gov/lau/tables.htm>) which provides a consistent source for determining this indicator. The value for this indicator is based on the unemployment level in the community served by the utility. The statement below best describes the unemployment rate in the service area.

<= 5% National Average

12. Median Household Income (MHI)*

MHI is a socioeconomic indicator of the wealth of the community served by the utility. This indicator provides insight on the fragility of a community to withstand a significant incident that could threaten the financial stability of the utility. The U.S. Census Bureau maintains a database for each state and county (see <https://www.census.gov/quickfacts/fact/table/US/PST045218>). The statement below best describes the MHI in the service area.

10% or more above State Median

2. Identify Critical Assets

Trophy Club Municipal Utility District No. 1 (District) provides 11,949 water customers in the Dallas-Fort Worth Metroplex with 2.3 Million Gallons/Day (MGD) of drinking water. The District is a wholesale water customer of and receives finished water from the City of Fort Worth. The District supplements approximately thirty-percent of its water supply with four groundwater wells within Trophy Club Town limits. Two groundwater wells are located at the District Pump Station and the remaining two are located offsite, within Trophy Club town limits. The single metered connection to the City of Fort Worth can provide a maximum of 7.9 MGD but only 3.7 MGD is currently allocated to the District from the City of Fort Worth water supply. The maximum capacity of the metered connection to the wholesale supplier somewhat exceeds the District’s current 7.0 MGD maximum day demand. In the event of disruption of the District’s primary water supply, there are currently no additional connections to the City of Fort Worth distribution system served by a separate water treatment plant to supplement the District’s elevated and ground storage. In this case, a connection to a separate plane of the Fort Worth system would have future potential to augment the District’s supply.

Table 2.1 Trophy Club Municipal Utility District No. 1 Profile

Utility Type and Information	
Utility Name	Trophy Club Municipal Utility District No. 1
Zip Code	76262
Population Served	11,949
Ownership	Public
Average Daily Water Service	2.3 MGD
Average Rate (\$/1000 gallons)	\$3.96

Potable water is delivered via a 21-inch transmission main to a 16-inch District main that conveys water to the two - 3.0 MG District ground storage tanks. The parameters of this Risk and Resilience Assessment (RRA) begin at the 21-inch transmission line, which is the point of transfer between the City of Fort Worth and the District. From that point forward, the safety of the water for human use and consumption is the District’s responsibility.

The System’s assets consist of:

- Purchased Finished Water
- 21” Transmission Line from Fort Worth system
- One (1) Fort Worth Meter Connections
- Four (4) Groundwater Wells
- Two (2) Ground Storage Tanks
- Pump Station
- Chemical Feed Systems
- Water distribution lines
- Two (2) elevated storage tanks
- SCADA Distribution Network
- Financial infrastructure

2.1 Water Supply

2.1.1 Finished Water from the City of Fort Worth

The District purchases finished water from the City of Fort Worth, which delivers water to the District by way of a metered connection at the District Pump Station. The metering vault and equipment are all owned by the City of Fort Worth. The metered connection delivers water to a District water main that directs the water to the Pump Station. The 21-inch transmission line can provide a maximum of 7.9 MGD but only 3.7 MGD is currently allocated to the District from the City of Fort Worth water supply. This is the only source of purchased water to the District.

Table 2.2: Daily Capacity of Water System

	Low	Typical	High
Daily Water Consumption	1.3	2.3	7.0

2.1.2 21” Transmission Line from Fort Worth

The 21” transmission line that delivers finished water from the City of Fort Worth to the District ground storage tanks is owned by the District, according to the District. This transmission line is aligned from a Fort Worth transmission main located along Highway 377 to Highway 170, TX-114, and Trophy Club Drive to the Fort Worth meter vault. The District’s infrastructure begins immediately downstream of the City of Fort Worth connection, excluding the Fort Worth Meter Vault.

2.1.3 Fort Worth Meter Connection

The City of Fort Worth metered connection is located within a meter vault at the District pump station, upstream of the ground storage tanks. The meter vault and associated appurtenances are owned by the City of Fort Worth and will not be considered an asset for this assessment.

2.1.4 Groundwater Wells

The District supplements its finished water with groundwater that is delivered via an 8-inch pipeline directly to the District ground storage tanks from four groundwater wells owned by the District. Two groundwater wells are located at the pump station property (Wells #1 and #3), one is located within a residential neighborhood near Crooked Creek Court (Well #3), and the furthest groundwater well is located along Northwest Parkway near the northwest intersection with Trophy Lake Drive (Well #4). The groundwater wells make up approximately 30% of the District water supply as a supplement to the purchased water.



Figure 2.1. Groundwater Well #1



Figure 2.2. Groundwater Well #3



Figure 2.3. Groundwater Well #2



Figure 2.4. Groundwater Well #4

2.2 Distribution System

2.2.1 Pump Station Ground Storage Tanks

The District has a total existing ground storage capacity of 6.0 million gallons (MG), in the form of two steel tanks located at the Pump Station property. The existing ground storage consists of two 3.0 MG tanks. The two ground storage tanks each receive water from the City of Fort Worth connection and the groundwater wells. Both tanks supply the 30-inch suction line to the high service pumps that deliver treated water from this storage to the District's water distribution system.



Figure 2.5. District Pump Station

2.2.2 High Service Pump Station

The District has a 20.2 MGD capacity high service pump station with a total ground storage capacity of 6.0 MG. This is the only pump station in the distribution system. The Pump Station consists of the following facilities:

- Two (2) 3.0 MG ground storage tanks
- Two (2) straight-line pumps with a total design capacity of 4,000 gpm (5.8 MGD)
- Three (3) variable frequency drive (VFD) pumps with a total design capacity of 10,200 gpm (14.7 MGD)

The Utility has redundant facilities at the pump station in the form of two ground storage tanks and five high service pumps. If one tank or pump is taken offline, the Utility can still supply water to the system through the additional tank and pumps. The GSTs and pumps are all located at the same



Figure 2.6. High Service Pumps

site, so any natural hazard will likely impact all tanks and pumps equally. This site is located within a residential area and enclosed by a tall wooden fence with an electronic access sliding gate at its entrance. This property is also monitored remotely with surveillance cameras 24/7 by District staff.

2.2.3 Water Distribution Lines

The distribution piping system consists of approximately 70 miles of pipeline with diameters ranging from 2 to 24 inches. Less than 6.0% of the pipes are greater than 12-inches in diameter and approximately 18% of the pipes are 12-inches in diameter. The vast majority, 73%, of pipes are 8-inches or less in diameter. The greater than 12-inch diameter pipelines are all associated with delivering flow from the pump station to the distribution system and are considered important assets. Since the distribution system is well-looped, none of these pipelines will be considered critical as removing one of these pipes would not cause a critical interruption to service.

2.2.4 East Elevated Storage Tank

The District has two elevated storage tanks with a total holding capacity of 0.9 MG, located in the Northwest and Southeast corners of the District's service area. The East elevated storage tank (EST) is located in the Southeast section of the distribution system on T W King Road near Trophy Club Town Hall. This is a 0.4 MG steel composite tank built in 1981. This site is located within a commercial area and enclosed by a perimeter fence and a locked dual swing gate at its entrance.

2.2.5 West Elevated Storage Tank

The West EST is located in the Northwest section of the distribution system on Bobcat Boulevard near Byron Nelson High School. This is a 0.5 MG steel composite tank built in 2008. This site is enclosed by a brick and stone fence and an electronic access sliding gate at its entrance.

2.3 Chemical Storage

The District purchases water from Fort Worth in a potable state. As the District typically mixes groundwater with the potable water, chlorine and liquid ammonium sulfate (LAS) are used to treat the groundwater prior to entering the ground storage tanks. For redundancy in case of issues with the water supplier, chlorine is used to treat the mixed water downstream of the ground storage tanks. Twelve 150-lb chlorine cylinders are stored in the chlorine room with four of the cylinders connected to the injection lines and equipped with leak detection sensors. Two 55-gallon drums of LAS are stored in a heated storage shed at the pump station property. Each storage room is equipped with electronic access.

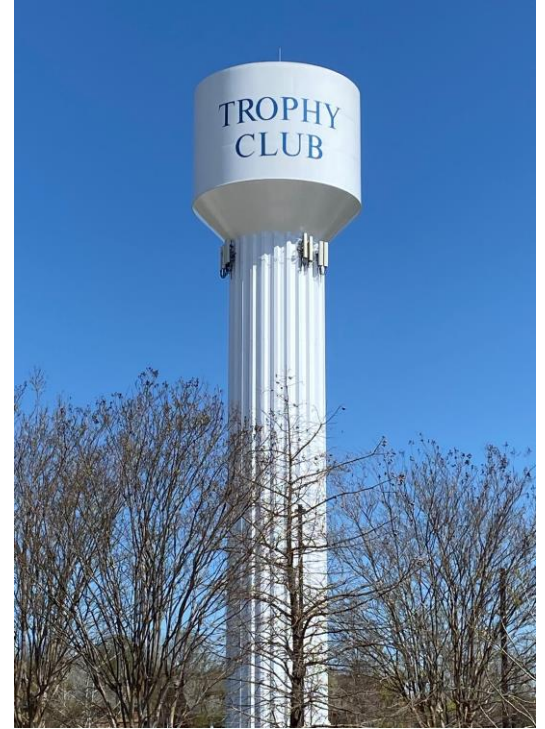


Figure 2.7: East Elevated Storage Tank

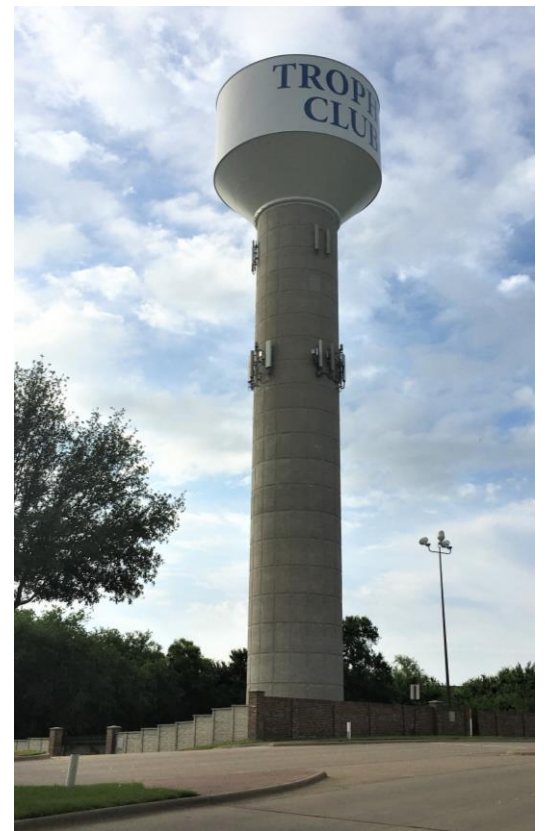


Figure 2.8: West Elevated Storage Tank



Figure 2.9. Chlorine Storage



Figure 2.10. LAS Storage

2.4 SCADA System

The District's water distribution network functions on a single pressure plane; all storage tanks outside of the pump station are elevated. The SCADA system is monitored by District staff and maintained by the District's IT consultant, M3 Networks. The SCADA system can be remotely accessed so that District staff can monitor the system and make modifications to pump controls, if needed. The SCADA system is housed on a computer at the pump room, which requires electronic badge access to enter the property and the building. A backup SCADA computer is housed in the administrative building.

2.5 Financial Infrastructure

The Utility uses a billing system from STW Software Inc. for customer online bill payment. Cybersecurity concerns on the District's network are generally limited to malware. The District's IT Consultant, M3 Networks, provides cyber protection for the online billing system. The Utility has no large industrial customers within its water network, and consequently its financial stability is not reliant on any singular customer. Privately owned businesses and schools are the largest consumers in the system.

2.6 Equipment

Water Utilities equipment includes any items that are necessary to maintain the integrity of the system by responding to and repairing problems in the system. Relevant equipment includes the utilities trucks, portable generators, stored replacement parts, etc. Considering the general availability and relative criticality of such items, the trucks and portable generators will be considered the critical assets, as they are not as easily replaceable and help sustain critical operations for the Utility. This equipment is stored at the District Administration building and pump station site which are equipped with surveillance cameras monitored by District staff, security fencing, and electronic access points.

3. Determine Threats

Threats are defined as either natural hazards or malevolent acts with the ability to disrupt the safe, continuous supply of water to a community. This assessment for the District employs an "All-Hazards Approach", which considers prevention,

protection, preparedness, response, and recovery needs that address a full range of threats and hazards, including malevolent attacks, natural, technological, and human-caused hazards, and other emergencies. Threats included in this analysis were selected based on whether they met one or more of these three criteria: likelihood of occurrence; potential scale of the impact of a catastrophic event and feedback from Utility stakeholders about their top priority concerns. Likelihoods are represented as a probability of occurrence in a one-year period of 0 to 1 but this value does not account for asset vulnerability. The vulnerability of each asset will be quantified in Section 4.0 to account for existing resilience. The following threats were included in this analysis and described in detail further in this section:

- Ice Storm (I3)
- Tornado (F3)
- Hailstorm
- Flooding (100-yr, 500-yr)
- Sabotage – Physical
- Physical Assault – Contractor Error
- Cyber-Attack on Business Enterprise Systems
- Cyber-Attack on Process Control Systems
- Contamination of Finished Water (intentional)
- Dependency – Key Suppliers
- Dependency – Utilities – Power Outage

3.1 Stakeholder Survey

Prior to the first Stakeholder meeting, District staff members responded to a survey to help identify the top priorities of Water Utilities, as well as to learn about potential threats and their impacts from employees' daily experience. The survey also asked employees to give their own impressions with respect to risk and vulnerability. From District staff's perspective, the Pump Station is the District's most critical asset, with the most likely and impactful natural threats coming from tornadoes and ice storms. Stakeholders expressed a mixed level of confidence in the resilience of the Utilities and identified the key water supplier as a dependency threat.

Figure 3.1: Survey responses to 'Please rank how resilient you believe the Utility is to Natural Hazards and Malevolent Threats'

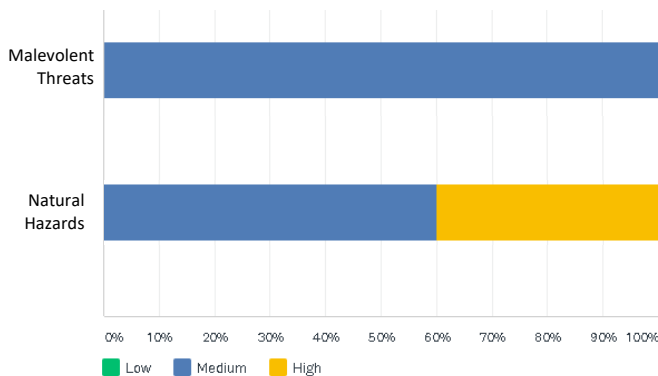
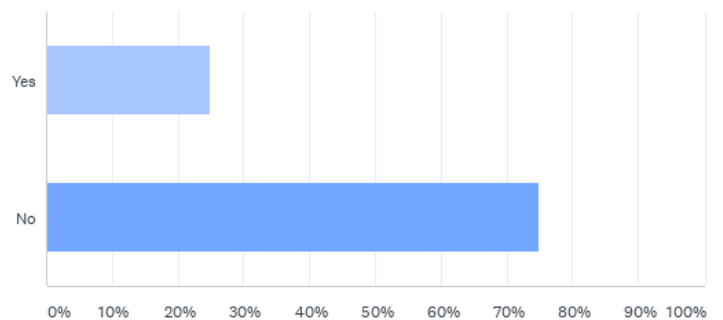


Figure 3.2: Survey responses to 'Have your key suppliers ever experienced service interruption as the result of a hazard?'



3.2 Natural Hazards

Because of its location in North Texas, an area prone to sudden, heavy thunderstorms and flash flooding, tornadoes and winter storms, the District’s water utility has a moderate vulnerability to natural hazards.

3.2.1 Ice Storm

Ice storms are becoming a more frequent and intense event for the Town of Trophy Club. Winter Storm Uri posed an unanticipated level of challenges with an extended winter freeze, further reinforcing the importance of evaluating Utility function under such conditions.

On the Ice Damage Index, a level 4 or 5 ice storm can result in prolonged outages and widespread damage to larger infrastructure such as power transmission lines and structures. Historic ice storm patterns show the North Texas region experiences one of these major ice storms approximately once every 50 years. Therefore, the likelihood of the District experiencing a major ice storm in any given year is 0.02.

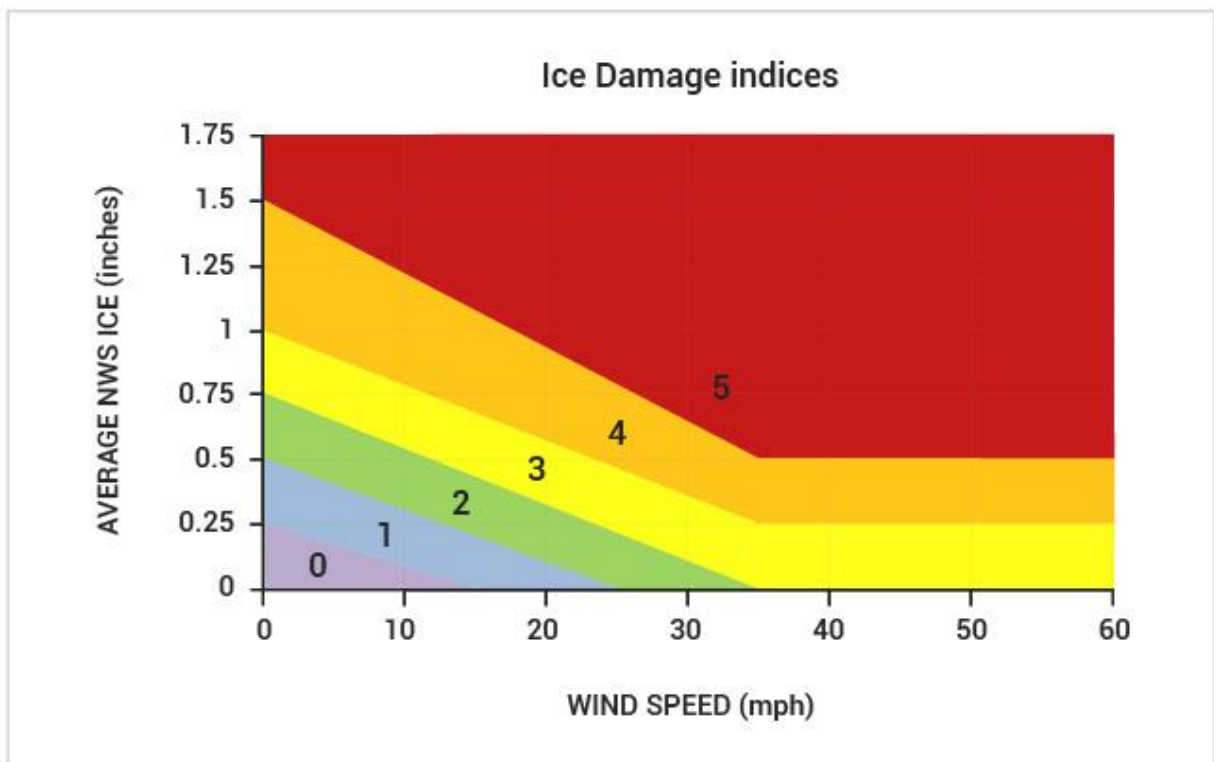


Figure 3.3 Ice Damage Index

3.2.2 Tornadoes

North Texas is vulnerable to tornadic activity but the Town of Trophy Club does not have an extensive history of tornado damage. Records dating back to 1955 show that while tornadoes occur very frequently in the region, they are more likely to fall within the less damaging EF0 classification, which represents a wind speed of up to 85 miles per hour (mph) or the EF1 tornado of up to 110 mph. For Denton and Tarrant Counties, tornadoes are a somewhat likely event that can cause moderate to severe damage. This report considers the potential damage inflicted by an F3 tornado, which can reach maximum wind speeds of up to 165 mph.

The likelihood of Denton and Tarrant Counties experiencing an F3 tornado in any given year is 0.1, based on the individual counties recurrence interval sourced from the National Oceanic and Atmospheric Association (NOAA) historical data by county shown in Figure 3.4 below. The likelihood of an F3 tornado following a path directly over Trophy

Club facilities is exponentially less than the likelihood that a tornado will fall within either counties, therefore, the default likelihood from VSAT of 0.000043 is used.

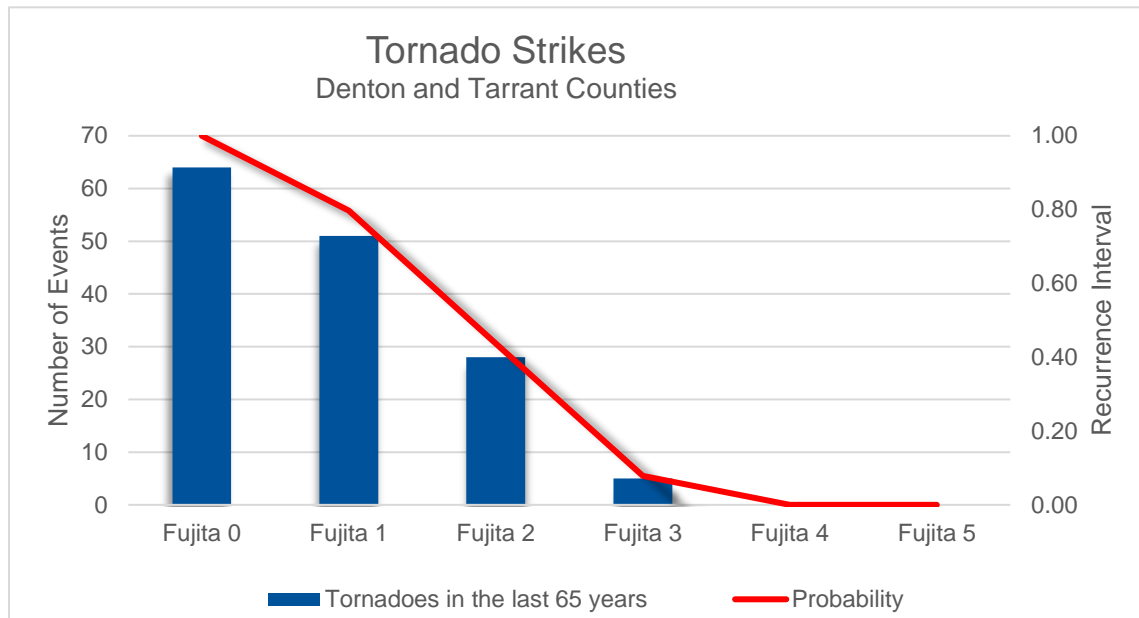


Figure 3.4 Tornado Activity in Denton and Tarrant Counties from 1955-present

3.2.3 Low-Recurrence Interval Flooding

The District does not have any critical water facilities located in the 100-year or 500-year flood plain and therefore, will not experience damage from 1% or 0.2% recurrence interval flooding. Therefore, flooding was not considered as a threat that would significantly impact any of the utility’s water assets.

3.2.4 Hailstorm

Hailstorms are a common occurrence in North Texas but are unlikely to significantly damage District critical assets. The materials used to construct these structures are designed to withstand such events. Therefore, hailstorms were not considered as a threat that would significantly impact any of the utility’s water assets.

3.3 Malevolent Acts

The EPA’s Baseline Information on Malevolent Acts for Community Water Systems offers default likelihoods for several types of malevolent acts on the community. The likelihood of an event occurring is based on national trends and provide an order-of-magnitude estimate. Adjustments have been made to threat likelihoods to District assets based on lived and anticipated experiences, as well as security differences between certain critical assets. Changes made to the default likelihoods based on these factors are decided on a threat-by-threat basis and explained below.

3.3.1 Cyber Threats

There are two primary types of cyber threats the Utility may experience, both occurring more and more frequently at municipal water utilities nationwide. One form targets business enterprise systems, including utility billing, communications, data management, or other information systems. This type of cyber-attack can result in loss of information resources, including sensitive or personally identifiable information, as well as causing economic consequences for and loss of public confidence in the Utility. The other type of cyber-attack targets process control systems that are part of monitoring, operations, and centralized control of the water system. Manipulation or disabling of utility infrastructure through a cyber-attack can result in a loss of service or damage to infrastructure.

The default likelihood of occurrence is 0.3 for a cyber-attack on a business enterprise system and 0.1 for a cyber-attack on a process control system. Although Texas cities have experienced an increase in cyber-attacks in the last several years, there is no reason to believe the District is any more susceptible to these threats than the default likelihoods suggest.

3.3.2 Sabotage of Utility

This malevolent act primarily aims to harm the operation of the utility process and is not necessarily subject to extreme, terroristic intents. An act of sabotage on the Utility may be done by an outsider or by someone with insider access and knowledge, depending on the asset at stake.

The default likelihood for this event is 0.05. Existing security at Utility sites implies that the District is no more susceptible to this threat than the default likelihood suggests.

3.3.3 Physical Assault – Contractor Error

This form of malevolent act encompasses an accidental break in a water pipeline due to contractor error. The DFW Metroplex is heavily developing and so, the potential for a contractor to mistakenly disturb and rupture any buried water lines is a likely threat to be considered.

The threat likelihood for this event is set to 0.5. The land along which the 21-inch transmission line is aligned is currently undeveloped and future development is highly likely, exposing the transmission line to possible breaks.

3.3.4 Contamination of Finished Water

This act includes all incidences where a contamination of finished water in the storage or distribution system occurs. This incident can be accidental in the form of a chemical or pathogen contaminant and/or intentional in the form of a biotoxin, chemical, pathogen, or radionuclide contaminant. An accidental contamination includes operation, management or design failures such as pressure loss, leaking infrastructure, or cross connection. An intentional contamination can be done by an outsider or Utility insider and requires the intent to poison consumers and/or contaminate infrastructure.

Accidental contamination of finished water is a fairly common occurrence for US water utilities as minor incidents without measurable consequences and has a default likelihood of 0.2. Intentional contamination of finished water is far less common but with much higher consequences and has a default likelihood of 0.00001. The District secondarily treats their water and therefore, stores a moderate amount of potential contaminants in the form of chlorine gas and liquid ammonium sulfate (LAS). Chlorine is a toxic gas, corrosive substance, and dangerous for the environment while LAS is carcinogenic and an eye and skin irritant. The District has historically had issues of pressure loss on the East side of their distribution system but capital improvements are being implemented to address these possible issues. Therefore, this assessment will focus on intentional contamination and accidental contamination in the form of chemical release to the environment.

3.3.5 Dependency Threats

The Utility is subject to a dependency threat in the form of a key supplier for finished water. Without a secondary supplier or a secondary connection to the suppliers' system that is sourced from a separate water treatment plant, the Utility would risk running out of water. There is no default likelihood for dependency threats, but based on the stakeholder responses the likelihood of occurrence is assumed to be 0.6

The Utility may also experience a dependency threat in the form of a power interruption. Without a backup power source that automatically turns on in such an event and is sufficient to supply power to critical equipment, function of the Utility may be disrupted. The Energy Information Administration reports that customers across the United States experienced an average of 1.3 interruptions annually. Evaluating how the Utility will fare in the seemingly inevitable event of a power outage, the likelihood of occurrence is assumed to be 1.0.

4. Determine Consequences and Vulnerabilities

To determine the risk level for each asset-threat pair, this analysis will identify the consequences to the asset associated with the occurrence of each paired threat, the likelihood of the threat occurring, and the vulnerability of the asset to damage if the threat occurs. Consequences are identified as either public health or economic consequences. Public health consequences include fatalities and significant injuries that directly result from the threat impacting the water utility asset. Economic consequences include financial consequences incurred by the utility and regional economic consequences. The likelihood of the threat occurring is quantified for each threat and estimates the probability that the threat will occur in a one-year period. The vulnerability likelihood is calculated from the Vulnerability Likelihood Calculator in VSAT and quantifies the percent likelihood that the threat would result in the previously identified consequences for each asset-threat pair.

4.1 Public Health and Economic Consequences

4.1.1 Fatalities and Serious Injuries

As stated in the J100 guidelines, fatalities and serious injuries are used to express the human safety and health consequences of a threat posed against an asset. This includes both on-site and off-site fatalities and injuries that could result from incidents such as exposure to harmful chemical or biological contaminants, airborne release of chlorine or other toxic substances, and direct attacks on the facility. An injury is “serious” when it results in lost work time or disability. Because of the precautions taken by the Utility, none of the scenarios analyzed for the District are anticipated to result in fatalities or injuries.

4.1.2 Economic Impacts

Economic impacts are estimated on two separate scales: those costing a direct financial loss to the owners of the facility and those that directly or indirectly cause economic loss across the region. As the District purchases treated water from Fort Worth, the analysis of economic impacts begins downstream of the meter vault. The District owns all distribution and storage facilities downstream of the meter vaults, meaning direct financial consequences are incurred by the Utility alone. Costs examined in this assessment derive from daily revenue loss as a product of the Utility’s average annual revenue. They represent the extent and duration of damage or service interruption. Regional economic consequences include loss of confidence in the Utility.

The offsite groundwater wells and the pump station are the most vulnerable to malevolent and natural hazards, respectively. This is due to limited security features at the offsite groundwater facility sites and the inevitability and increasing intensity of natural hazards. This analysis focuses on higher intensity natural hazards that are becoming increasingly common and are able to inflict more damage on utility structures, resulting in higher utility financial consequences. Regional economic consequences were only assigned to threats that result in an inability of the Utility to provide accurate and real-time information to the community.

4.2 Threat Occurrence Likelihood

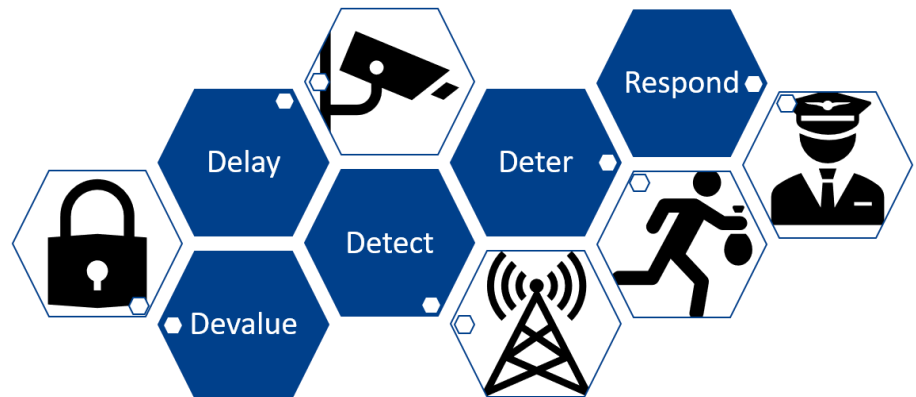
The threat occurrence likelihood estimates the probability that the threat will occur in a one-year period, considering the resilience measures already in place to deter consequences to the asset. The estimates for each threat category are calculated differently. Natural hazard likelihood estimates are based on recurrence intervals by region. Malevolent threat likelihood estimates are based on the EPA’s Baseline Information on Malevolent Acts for Community Water Systems default likelihoods for various malevolent acts. These likelihoods are based on national trends and provide an order-of-magnitude estimate that can be adjusted based on site-specific factors. Dependency threat likelihood estimates are based on historical data and current conditions for the utility.

4.3 Vulnerability to Threats

Vulnerability is the likelihood that one of the District's assets will suffer adverse impacts from a specific threat. The vulnerability of any particular asset directly reflects the actions taken to mitigate the effect of a wide variety of threats. In the RRA, these mitigating actions are known as "countermeasures." For example, while natural hazards require a resistance to the effects of wind and extreme temperatures, in the case of malevolent acts, countermeasure capability is defined as the Utility's capability of detecting, delaying, and responding to a given threat.

For malevolent hazards, detection countermeasures can include security equipment, cameras, intrusion alarms and departmental procedures that control access and trigger additional security actions. Delay countermeasures are physical obstacles like walls and fencing that can stop or deter an adversary. Response countermeasures entail security personnel and protocol that empower the Utility to counteract or interrupt an attack, reducing the likelihood of damage.

For natural or dependency hazards, countermeasures improve utility preparation for a dangerous event, including procedures for active response, and recovery. Preparation involves a host of preemptive measures the Utility may take, from training in emergency procedures to stockpiling materials. Active response describes the Utility's capability to mobilize during or following an event, and to follow established emergency response



plans and procedures. Recovery countermeasures reflect the Utility's ability to fully restore operations following an event. The more the utility prepares its critical assets for a wide variety of contingencies, the more resilient that asset will be to future damage, which will be reflected in a lower risk score.

Each of these factors (detection, delay, response for malevolent acts; preparation, response, recovery for natural or dependency hazards) offers four qualitative options to which the calculator assigns a numerical value. The calculator combines all three values for a threat-asset pairing to produce an overall vulnerability likelihood. This value represents the way a specific threat-asset scenario would realistically play out from the moments before it happens to full recovery from any damage.

4.4 Asset-Threat Pairing Analysis

The process of conducting a J100 assessment through the VSAT system identifies the consequences that could result from the impact of certain threats on the District's critical assets under multiple post-disaster scenarios. The Utility Resilience Index, survey and stakeholder advisory group meetings all served to narrow the focus of this assessment to ensure that this RRA resulted in a targeted evaluation of the most likely threat scenarios. The results reported below help identify the primary threats, vulnerabilities and potential consequences of a hazard for the District's most critical water utility assets.

The VSAT assessment methodology provided numerous threat selections, including all the malevolent acts, natural hazards, and dependency/proximity threats listed in the AWWA J100-10 Standard, along with source water (accidental and intentional) and finished water (accidental) contamination.

4.4.1 Preliminary Asset-Threat Pairs

While the District owns a wide variety of assets related to water storage and distribution, not all are critical to continuing to provide service to the Town. In order to identify situations in which the Utility could be most vulnerable to losing function, the list of assets was narrowed to those essential to daily operations. The following assets were included in the initial qualitative assessment, but were not selected for the second round of quantitative assessments:

- The **large diameter pipelines** within the utility's distribution system are a vital asset to deliver water to the system. The pipe network is sufficiently looped so that service will likely be uninterrupted in the case that a section of pipe needs to be isolated for repairs. Also, utility staff are highly equipped to make quick repairs and accessibility to replacement parts is high given the proximity to the DFW metroplex. Given these existing resiliencies, this asset was removed from further evaluation.
- The **water bill payment system** allows customers to pay their water bill from their mobile devices. The District has an IT consultant company that provides excellent cybersecurity efforts to protect against cyber-attacks. Given the high resilience provided by the IT consultant, this asset was removed from further evaluation.
- The district owns four groundwater wells, two of which are located at the pump station property. These **Onsite Groundwater Wells** are not subject to the same vulnerability as the two offsite groundwater wells, which are located in a residential area and alongside a highway frontage road. The onsite groundwater wells have higher security features and lack the exposure to possible highway spills. Given these comparatively lesser vulnerabilities, this asset was removed from further evaluation.
- The utility **equipment** includes many critical assets for maintaining the ability to deliver safe water. Given existing resiliencies where the equipment is stored, vulnerability is low to any threat imparting significant adverse consequences to this asset.

Table 4.1 contains all potential Asset-threat pairings that were considered for the District's Water System assets. The logic behind further narrowing the asset list weighed employee feedback to determine a structure's criticality, resilience, and likelihood of experiencing threats in the first place. Fields in dark grey identify cases where asset-threat pairs did not indicate further study was needed. Fields shaded lighter grey identify asset-threat pairings considered for further analysis but not ultimately selected due to low asset vulnerability or existing resilience measures. Fields marked with an X identify asset-threat pairs that have considerable asset vulnerability, high likelihood of threat occurrence, and/or would significantly impact the utility's ability to deliver water to customers.

Table 4.1: Preliminary Asset-threat Pairing Analysis

	Ice Storm	F3 Tornado	100-Year Flood	Hail Storms	Key Suppliers	Utilities-Power Outage	Contamination	Accidental Contamination	Sabotage	Physical Assault – Contractor Error	Cyber-Attack - Business Enterprise	Cyber-Attack - Process Control
Likelihood	0.02	0.000043	0.01	1.0	0.6	1	0.05	0.2	0.05	0.5	0.3	0.1
Purchased Water					X							
Offsite Groundwater Wells							X					
Onsite Groundwater Wells												
21" Transmission Line										X		
Pump Station	X	X							X			
Large Diameter Pipelines												
Elevated Storage Tanks	X	X										
Chemical Storage								X	X			
SCADA System												X
Billing Systems												
Equipment												

4.4.2 Critical Asset-Threat Pairs

The preliminary list of assets and potential threats was narrowed to the most critical asset-threat pairs based on their potential to disrupt critical operations of the District's water system or cause significant public health or economic impacts. Table 4.2 lists the critical asset-threat pairs that will be quantitatively analyzed to rank each pairing based on their vulnerability and consequences. The pump station was found to have the greatest exposure to a variety of threats. The threat likelihood is defined as an annual risk and is factored into the VSAT calculation discussed in Chapter 5.

Table 4.2 Critical Asset-threat Pairs

Critical Assets	Threats	Threat Likelihood
Pump Station	F3 Tornado	0.000043
	Ice Storm	0.02
	Sabotage	0.05
Elevated Storage Tanks	F3 Tornado	0.000043
	Ice Storm	0.02
Chemical Storage	Accidental Contamination	0.2
	Sabotage	0.05
Offsite Groundwater Wells	Contamination	0.05
Purchased Water	Key Suppliers	0.6
21" Transmission Line	Physical Assault	0.5

4.5 Asset Vulnerability to Natural Hazards

Through the Stakeholder survey and meeting and from Halff's familiarity with the District's facilities, it was determined that the District had moderate vulnerability to natural hazards. Prior to the February 2021 snow storm, stakeholders did not indicate that the District's water supply had suffered in the past from other natural hazards. A majority of those surveyed responded that prior to the 2021 winter storm neither they nor key suppliers had experienced service interruption as the result of any natural hazards.

In 2020 and 2021, the District experienced two unprecedented hazards:

- The 2020 COVID-19 pandemic
- February 2021 Winter Storm Uri

While neither have had dramatic effects on the District's ongoing ability to provide water to its customers, they have made the task of providing water to almost 12,000 residents a more challenging one. COVID-19 has caused a low impact on availability of billing staff and essential personnel. The following section provides more detail on the effects of each, as well as actions the Utility has taken to address them.

4.5.1 COVID-19 Pandemic

The pandemic does not appear to have had an impact on the majority of customers, whose ability to pay their bills has not been impacted. A very small percent of customers were put on payment plans or otherwise accommodated by the finance staff. As confirmed in the District Stakeholders survey, and in follow up conversations with staff, crews and administration staff utilized splitting shifts and rotating office and remote work to decrease exposure due to the

pandemic. The District had no interruption in work throughout the pandemic as a result of these implementations. The District proactively cross trains staff so that the absence of any one employee is not detrimental to the operation of the system.

4.5.2 Winter Storm Uri

Fortunately, the District did not experience any interruption in its water supply as a result of Winter Storm Uri. Freezing conditions did not seem to affect the ability of critical assets such as pumps and equipment exposed to the elements to operate according to standard procedure. Water levels in the District's elevated and ground storage tanks were monitored through SCADA by Utilities employees but never dropped to concerning levels as a result of customer faucet dripping and pipe breaks. The Utility was not impacted by power losses during the rolling blackouts and therefore all assets were in service. The District's water supply can be remotely monitored 24-7 and staff were on duty to take action if a problem was observed, such as tanks emptying or loss of pressure.

During the storm, Water Utility employees responded to over 100 calls to shut off water for service leaks and the fire department received 70 – 80 calls to shut off water for home fire suppression systems. All pipe breaks were exclusively on the customer side as the distribution system suffered no pipe breaks during the event. There were no instances of unattended pipe breaks that could have extensively drained the system's water supply. The District also used social media to convey important information to their customers throughout the event. This method of communication is credited with effectively providing the status of the water supply system to customers throughout the event even though local news was inaccurately reporting a boil water notice for Trophy Club.

The District would have been impacted by a boil water notice issued by their water source supplier if they did not already retreat their purchased water prior to distribution. The water is retreated because groundwater is mixed with their purchased water at the pump station ground storage tanks. There was never a concern that they would run out of water due to their existing system storage and groundwater supply. The Town of Trophy Club posted through the Town's resident alert system and on their social media pages to communicate the safety of the drinking water supply to customers. The District did not have to issue a boil water notice or run out of water for the duration of the winter storm event.

After narrowing the scope of natural hazards and assets that pose a potential threat to daily function of the Utility, overlap with the original stakeholder survey results remain.

4.6 Access Controls to Critical Assets

Vulnerability to malevolent acts is directly related to security resources that restrict access to critical assets. Deterrents such as perimeter fences, carefully controlled access points, and electronic security systems (surveillance cameras, intrusion detection, and electronic access controls systems) can be effective tools for resisting an attack by someone without authorized access. The same tools can delay an attack by an insider but may not stop it altogether.

Security features such as the perimeter fences that surround the pump station and elevated storage tank sites, for example, *delay* and *deter* bad actors from entering the property. Alarms, intercoms and cameras would *detect* unauthorized entrance onto the property. Monitoring of the Utilities' surveillance cameras also helps employees and Trophy Club's police and fire departments to *respond* quickly when someone gains unauthorized access to the gates or a restricted access area. Locked doors and the location of facilities in hardened structures *devalue* the impact of an attack or sabotage.

While the Utility has many of these features in place at all sites, there are upgrades that can improve effectiveness. These will be discussed in the recommendations section of this RRA.

4.7 Asset Vulnerability to Cyber Security Concerns

Cybersecurity entails not just technical controls, but also a culture of vigilance. It begins with each staff member remaining observant of possible threats and following information technology (IT) and operation technology (OT) security procedures, and ends with the physical and software tools incorporated to safeguard the IT (also referred as Business Enterprise Systems) and OT (also referred as Process Control Systems or SCADA) systems.

Practices and protocols that enhance cybersecurity at facilities include: Password protection to login into network or its end-points by using multi-factor authentication mechanisms, network segmentation, implementation of fire-walls, keeping systems disconnected from the network without a true need, continuous staff-tailored cyber security training, emergency response plans for the event of a ransomware attack, eliminating control of critical systems from personal devices such as mobile phones, prohibiting “shadow IT” practices, and timely controlled software system/patch installations.

Based on the interviews performed, the District appears to have a sound cybersecurity system that incorporates a significant number of these recommended practices.

4.8 Financial Consequences

The information the District provided for this analysis indicates that their most expensive assets, including the pump station and elevated storage tanks, may be the greatest source of vulnerability to natural and malevolent hazards. However, the District’s elevated tanks are poised to withstand the most frequently occurring severe weather conditions experienced in the area. Additionally, redundancies in the system reduce the vulnerability of expensive assets. The risk calculations described in Chapter 5 focus more on the financial considerations related to loss of service for the Utilities, and consequently, loss of revenue. At the request of the District, pump replacement costs are included in the financial impact for the pump station asset pairs.

5. Baseline Risk Assessment

After evaluating the critical asset and threat pairs most likely to result in an interruption of service for the Utility, Halff further narrowed the focus of assets that merited quantitative analysis in order to produce a Baseline Risk Assessment. This assessment looks at the risks associated with a variety of hazard events under current conditions.. Scenarios that pose the highest risk of interrupting Water Utility service in the event of a malevolent or natural hazard should be seen as top priorities for future investment. To better understand the variable representing the likelihood of each threat occurring, refer to in Chapter 3.

To effectively interpret and use the Baseline Risk Assessment data as a planning tool for future improvements to the water system, pay careful attention to two figures. The first is the Risk, or “Monetized Risk” calculation. The “Risk” score represents the severity of each risk by multiplying the likelihood that a threat will occur in a given year by the potential cost to the utility should it occur, by the vulnerability of the system to that specific threat. Rather than interpreting the risk figure as the actual cost to the Utility in a single year, it should be read as the probability of that risk in a given year.

The second is the Utility Financial Impact. As stated in section 4.1.2, Utility Financial Impact is based on average annual daily revenue lost as the result of a hazard. For the District this loss of one day’s revenue is estimated to be approximately \$10,000 per day, based upon budgeted water sales for the 2021 fiscal year. These costs assume a total loss of asset function in order to establish a baseline for comparison between risks.

5.1 Purchased Water Risk and Resiliency Analysis

The District’s water supply via the Fort Worth Meter vault was quantitatively evaluated for both malevolent and natural hazards. The quantitative risk assessment for the purchased water is shown in Table 5.1.

Table 5.1 Purchased Water Risk & Resilience

	Key Suppliers
Monetized Risk	\$4,860
Utility Financial Impact	\$10,000
Regional Economic Impact	\$0
Fatalities	0
Injuries	0
Vulnerability Likelihood	81%
Annual Threat Likelihood	0.6

5.1.1 Key Suppliers

Service interruption from Fort Worth, the District’s sole potable water supplier, would lead to limited or depleted water delivery to customers if the outage lasts beyond the distribution system’s existing storage. The distribution system has no secondary connections to other systems and the groundwater wells are not equipped to meet District demands. This has created a dependency threat in the form of a key water supplier. This analysis assumes a service outage of one day beyond the system’s storage capacity, which equates to \$10,000 of utility financial impact, or one day of service interruption.

The District is part of TXWARN and has an emergency management plan and drought dependent water restrictions prepared that could be implemented as part of response and recovery. These plans could help prolong the supply from the system tanks and groundwater but would not provide additional water to the system, and therefore, the vulnerability likelihood is 81%.

5.2 Offsite Groundwater Wells Risk and Resiliency Analysis

The District’s two offsite groundwater wells supplement the District’s main water supply. The quantitative risk assessment for the offsite groundwater wells is shown in Table 5.2.

Table 5.2. Offsite Groundwater Wells Risk and Resilience

	Contamination
<i>Monetized Risk</i>	\$500
<i>Utility Financial Impact</i>	\$10,000
<i>Regional Economic Impact</i>	\$0
<i>Fatalities</i>	0
<i>Injuries</i>	0
<i>Vulnerability Likelihood</i>	100%
<i>Annual Threat Likelihood</i>	0.05

5.2.1 Contamination

Contamination of the offsite groundwater wells would lead to service interruption to remove and sanitize affected facilities or degraded water quality if the contamination is not detected prior to entering the distribution system. The groundwater well located off the side of the highway frontage road is subject to any highway spills from trucks and the groundwater well located within a neighborhood is subject to any undetected leaks and runoff from residences. This has resulted in a malevolent threat in the form of accidental contamination of source water. This analysis assumes a service outage of one day, which equates to \$10,000 of utility financial impact.

The groundwater wells are not equipped with surveillance cameras or sensors to warn staff of an issue at the sites. The groundwater is also not tested or observed prior to entering the ground storage tanks. However, the groundwater well sites have security fencing, the groundwater influent lines can be closed at multiple valves, and specific groundwater wells can be turned off to disconnect from the system. Although a contaminant slug could effectively be isolated from the system, there are currently no facilities in place to detect a slug and consequently, the vulnerability likelihood is set to 100%.

5.3 Transmission Pipeline Risk and Resiliency Analysis

The 21-inch transmission line from the Fort Worth distribution system is crucial for consistent supply of water to the District. Natural hazards are not believed to be a threat to the line as the line is underground and not exposed to flood or wind risk. However, the potential for a contractor to mistakenly disturb the line and cause a break is prudent to consider.

Table 5.3. Transmission Risk and Resilience

	Physical Assault
Monetized Risk	\$2,500
Utility Financial Impact	\$10,000
Regional Economic Impact	\$0
Fatalities	0
Injuries	0
Vulnerability Likelihood	50%
Annual Threat Likelihood	0.5

5.3.1 Physical Assault – Contractor Error

A break in this transmission main would result in a complete loss of source water so that the District system would be limited to the water already stored in their tanks and the groundwater wells. District actions would be to valve off the main break segment, dewater the pipe, excavate with a backhoe to assess the extent of the damage, and call in a contractor to make repairs. The District system can store greater than 73 hours of low demands and are able to call in contractors to make repairs within 24 hours. It is likely that the transmission line would be back in service in less than 24 hours from the break, or a financial impact of \$10,000.

A break in this transmission line would likely be detected very soon after it occurred due to the immediate release of water. Although the line is buried underground, there is nothing above ground that would cause a delay in identifying if a break occurs. As stated above, the action the Utility may realistically take are to valve off the main break segment, dewater the pipe, and excavate with a backhoe to assess extent of damage. The ability to recover from this event depends entirely on the even distribution of available water stored in the system until the supply line can be put back in service. If any District tanks are out of service or demands are high, efficient recovery from this event would be less likely. The dependency on a single potable water source but availability of system storage and groundwater wells puts the vulnerability likelihood of this event at 50%.

5.4 Pump Station Risk and Resilience Analysis

The Pump Station is the primary input of pressure to the distribution system; the elevated storage tanks can solely maintain pressure for a finite time. The quantitative risk assessment for the pump station is shown in Table 5.4.

Table 5.4 Pump Station Risk & Resilience

	F3 Tornado	Ice Storm	Sabotage
Monetized Risk	\$2	\$742	\$120
Utility Financial Impact	\$70,000	\$70,000	\$20,000
Regional Economic Impact	\$0	\$0	\$0
Fatalities	0	0	0
Injuries	0	0	0
Vulnerability Likelihood	62%	53%	12%
Annual Threat Likelihood	0.000043	0.02	0.05

5.4.1 Fujita 3 Tornado

High winds and debris can cause sustained damage to equipment and potentially take the pump station offline as the pumps are unsheltered and above-ground. The Utility could expect 24 hours for service outage and significant pump maintenance costs, or an estimated \$70,000.

The pumps and miscellaneous equipment kept outdoors is moderately resilient to a high impact tornado with winds of greater than 136 miles per hour. These tornadoes occur very infrequently in the region, however and would require a somewhat direct collision to inflict the level of damage assumed for this threat scenario. Due to the availability of mechanics and redundant pumps, the District is somewhat capable of responding actively and fully recovering from such an event, making the vulnerability likelihood 62%.

5.4.2 Ice Storm

A high-level ice storm can cause equipment to freeze and/or experience permanent damage, as well as interrupt the typical power supply. The Utility could experience upwards of 60 hours of service outage and moderate pump maintenance costs, or \$70,000.

The Pump Station has backup generators to maintain pump operation and portable generators for any other critical equipment in the occurrence of a power outage. Most appurtenances are stored inside heated buildings or underground in manholes so that the risk of freezing equipment is low. If power is interrupted from the grid, continued operation may rely on manual checks by employees who may also be impacted by the storm and unable to access the site. The District is currently updating their fuel agreement to maintain sufficient fuel for generators and account for possible gelling due to freezing temperatures. Once the fuel supply agreement is completed, the District will be highly capable of responding actively and fully recovering from the impacts of severe winter weather at the Pump Station. Currently, the vulnerability likelihood is set to 53%, but this vulnerability will drop with the adoption of the fuel supply resilience measures.

5.4.3 Sabotage

An act of sabotage on the pump station is not likely to have a significant impact on Utility function. Inoperability of any pump could be offset by at least four other District pumps, given that at least one pump was not sabotaged. It could take the District up to twelve hours to repair the pumps and minimal pump maintenance costs, which equates to \$20,000 of impact.

An attempt at sabotage would likely be detected relatively quickly as the SCADA system is programmed to notify staff when a pump is malfunctioning and the pump station site is equipped with camera surveillance that can be remotely accessed by staff. The pump station property has tall perimeter fencing and electronic access-controlled gates which give the Utility a stronger ability to delay an incident. The pump station has a vulnerability of 12% given the high ability to detect and delay an attempt at sabotage.

5.5 Elevated Storage Tanks Risk and Resilience Analysis

The elevated storage tanks provide pressure and storage to the distribution system. The quantitative risk assessment for the elevated storage tanks is shown in Table 5.5.

Table 5.5 Elevated Storage Tanks Risk & Resilience

	F3 Tornado	Ice Storm
Monetized Risk	\$0	\$106
Utility Financial Impact	\$5,000	\$10,000
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	34%	53%
Annual Threat Likelihood	0.000043	0.02

5.5.1 Fujita 3 Tornado

The District's elevated tanks are less susceptible to high winds and debris since they are newer composite pedestal tanks. The Utility could expect less than 12 hours for service outage to make minor repairs, or an estimated \$5,000.

If an elevated tank were taken offline, the system pressure would be maintained by the secondary EST and the pump station. The system has historically not had issues maintaining system pressure with one EST out of service. The District is also a member of TXWARN to aid in recovery efforts. These tornados occur very infrequently in the region, however and would require a somewhat direct collision to inflict the level of damage assumed for this threat scenario. The vulnerability likelihood is 34% to account for the need for an updated emergency response plan that will be completed by the end of this year.

5.5.2 14 Ice Storm

A high-level ice storm can cause water level indicators to report false readings through a lack of heat from power loss and/or freeze exposed valving. The Utility could experience a 24-hour service outage, or \$10,000.

The elevated storage tanks can utilize portable generators to maintain heat for the water level indicators in the occurrence of a power outage. If power is interrupted from the grid, continued operation may rely on manual checks by employees who may also be impacted by the storm and unable to access the site. The District is currently updating their fuel agreement to maintain sufficient fuel for generators and account for possible gelling due to freezing temperatures. Once the fuel supply agreement is completed, the District will be highly capable of responding actively and fully recovering from the impacts of severe winter weather at the elevated storage tanks. Currently, the vulnerability likelihood is set to 53%, but this vulnerability will drop with the adoption of the fuel supply resilience measures.

5.6 Chemical Storage Risk and Resilience Analysis

The District stores chlorine and LAS to treat groundwater and secondarily treat water prior to distribution. The quantitative risk assessment for chemical storage is shown in Table 5.6.

Table 5.6 Chemical Storage Risk & Resilience

	Contamination	Sabotage
Monetized Risk	\$300	\$125
Utility Financial Impact	\$5,000	\$5,000
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	30%	50%
Annual Threat Likelihood	0.2	0.05

5.6.1 Contamination

An accidental contamination to the environment is always a risk when storing significant quantities of hazardous chemicals. Chlorine is a toxic gas, corrosive substance, and dangerous for the environment while LAS is carcinogenic and an eye and skin irritant. The Utility could expect less than 12 hours for service outage to implement repair the leak and cleanup any contaminants, or an estimated \$5,000.

A leak would be detected quickly from one of the four chlorine tanks with leak detection sensors. The remaining eight tanks do not have leak detection. District staff are trained to respond to chlorine leaks and personal protective equipment, eye-wash stations and showers, and emergency contact numbers are all located near the chemical storage for response and recovery efforts. The vulnerability likelihood is 30% to account for the need to include LAS leak response training to the District staff.

5.6.2 Sabotage

An act of sabotage on the chemical storage is not likely to have a significant impact on Utility function. Inoperability of any chemical bottles could be offset by the backup storage maintained by the District. It could take the District up to twelve hours to implement recovery efforts, which equates to \$5,000 of impact.

An attempt at sabotage could be detected if staff are monitoring the camera surveillance. No alarms are associated with camera surveillance. The chemicals are stored in an electronic-access controlled shed behind the has tall perimeter fencing and electronic access-controlled gates at the pump station property. The lower ability to detect an intruder or issues with all stored chemicals, warrants a moderate vulnerability likelihood of 50%.

5.7 SCADA Risk and Resilience Analysis

The SCADA system is a critical part of the distribution system, so it was evaluated against potential impacts of natural and malevolent hazards. The quantitative risk assessment for the SCADA system is shown in Table 5.7.

Table 5.7 SCADA Risk & Resilience

	Cyber-Attack
Monetized Risk	\$60
Utility Financial Impact	\$20,000
Regional Economic Impact	\$0
Fatalities	0
Injuries	0
Vulnerability Likelihood	3%
Annual Threat Likelihood	0.1

5.7.1 Cyber-Attack

A successful cyber-attack on the SCADA system could force operations to go manual, potentially require a boil notice for impacted water, and cause the Utility up to 2 days of loss translating to \$20,000.

Based on security measures implemented by M3 Networks surrounding SCADA operations, it's probable that an attempted assault would be noticed immediately. The Utility has a strong ability to impede a cyber-attack or delay its effects, and the ability to quickly counteract the impacts of internal sabotage. The vulnerability likelihood is 3%.

5.8 Comparing Assets by Monetized Risk

When comparing assets by their monetized risk estimates, the Purchased Water and 21-inch Transmission Line are at a considerably higher risk than other assets due to their criticality for the system and lack of redundancy. Table 5.8 and Figure 5.1 show the total monetized risk attributed to each asset from the Baseline Risk Assessment. Table 5.9 and Figure 5.2 show the total monetized risk associated with each threat from the Baseline Risk Assessment.

Table 5.8: Total Monetized Risk by Asset

Assets	Total Monetized Risk
Purchased water	\$4,860
21" Transmission Line	\$2,500
Pump Station	\$864
Groundwater Wells	\$500
Chemical Storage	\$425
Elevated Storage Tanks	\$106
SCADA System	\$60

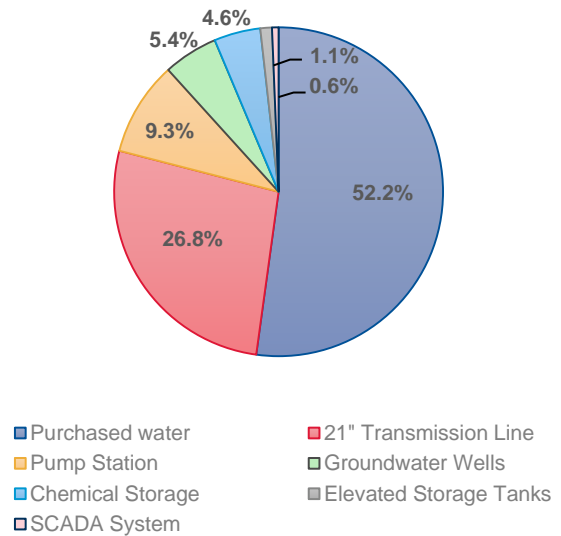
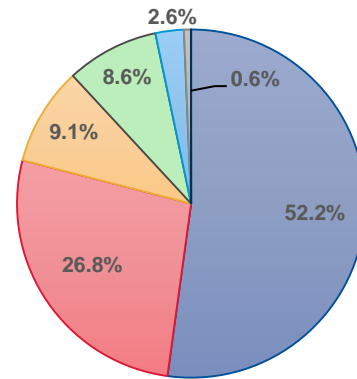


Figure 5.1: 100% of Risk Profile by Asset

Table 5.9: Total Monetized Risk by Threat

Threats	Total Monetized Risk
Key Suppliers	\$4,860
Physical Assault	\$2,500
Ice Storm	\$848
Contamination	\$800
Sabotage	\$245
Cyber Attack	\$60
F3 Tornado*	\$2

*Not graphed due to no visibility



■ Key Suppliers ■ Physical Assault ■ Ice Storm
 ■ Contamination ■ Sabotage ■ Cyber Attack

Figure 5.2: 100% of Risk Profile by Threat

5.9 RRA Final Results: Prioritizing Improvements

Mitigation activities aimed at improving the Utility’s Financial Impact are primarily concerned with revenue lost due to interruption of safe, reliable water service. Both accidental and intentional interruption from the District’s primary source of potable water through Fort Worth, if prolonged, can cause the Utility to lose the ability to provide that service. Additionally, damage to assets throughout the distribution system can threaten the District’s ability to supplement the volume received from Fort Worth.

5.9.1 Utility Financial Impact

The Utility Financial Impact represents the total potential revenue lost each day while employees are conducting the repair and replacement activities necessary to bring water distribution back online. Relative repair costs are included for the pump station asset-threat pairs to highlight the utility’s most expensive asset. Severe physical damage to the Pump Station is likely to cause 2.5 days of lost service under regular conditions, during which service to the distribution system must rely on elevated storage. The SCADA system follows as a single, broadly employed asset whose dysfunction could cost the utility 2 days of lost service.

Table 5.9.1 RRA Utility Financial Impact

Asset – Threat Pairs	Utility Financial Impact	Mitigation Ranking
Pump Station – Tornado, Fujita 3	\$70,000	1
Pump Station – Ice Storm (I4)	\$70,000	1
Pump Station – Sabotage, physical	\$20,000	2
SCADA – Cyber-Attack	\$20,000	2
21” Transmission Line – Physical Assault	\$10,000	3
Purchased Water – Dependency, Key Suppliers	\$10,000	3
Offsite Groundwater Wells – Contamination, Accidental	\$10,000	3
Elevated Storage Tanks – Ice Storm (I4)	\$10,000	3
Chemical Storage – Contamination, Accidental	\$5,000	4
Elevated Storage Tanks – Tornado, Fujita 3	\$5,000	4
Chemical Storage – Sabotage, physical	\$5,000	4

5.9.2 District Risk Score

The monetized risk, or 'Risk' score includes the Utility Financial impact, consequences, asset vulnerability, and threat likelihood. Although there is a dollar value assigned to these figures, it is more useful to consider the 'Risk' factor as an order of magnitude that allows the District to consider how likely it is that a particular risk will occur, and its potential to damage critical equipment. This factor also accounts for the chance of injury or death occurring as the result of a hazard. None of the threat-asset pairs analyzed are likely to directly cause injury or death, so the monetized risk values remain around the same magnitude. These figures provide the District with guidance for potential future investments in the resilience of its water system assets.

Table 5.9.2 RRA Risk Score for Critical Assets

RRA Risk Score		
Asset – Threat Pairs	Monetized Risk	Mitigation Ranking
Purchased Water – Dependency, Key Suppliers	\$4,860	1
21" Transmission Line – Physical Assault	\$2,500	1
Pump Station – Ice Storm (I4)	\$742	2
Offsite Groundwater Wells – Contamination, Accidental	\$500	2
Chemical Storage – Contamination, Accidental	\$300	3
Chemical Storage – Sabotage, physical	\$125	3
Pump Station – Sabotage, physical	\$120	3
Elevated Storage Tanks – Ice Storm (I4)	\$106	3
SCADA – Cyber-Attack	\$60	4
Pump Station – Tornado, Fujita 3	\$2	4
Elevated Storage Tanks – Tornado, Fujita 3	\$0	4

6. Effects of Countermeasures to Reduce Risk & Improve Resilience

The findings of the Baseline Risk and Resilience Assessment indicate areas of existing vulnerability and provide some initial indication of how to rank the investments needed to improve performance of the system. The District reviewed the findings of the Baseline Assessment and with Halff's assistance, identified potential countermeasures to reduce the impact of the identified vulnerabilities and risks.

There are a number of countermeasures that the District may undertake in order to fortify the water system and further protect against natural and malevolent threats. Countermeasure analyses were conducted for asset-threat pairs with a Mitigation Ranking score of 1 or 2 to emphasize the scale of reduction in financial risk that can be achieved with the recommended countermeasures for the assets with highest financial risk. The following sections include recommended countermeasures for all critical assets and countermeasure analyses for the following assets:

- Purchased Water
- 21-inch Transmission Line
- Pump Station
- Offsite Groundwater Wells

The proposed countermeasures may impact one or a combination of consequences and the following three factors contributing to overall vulnerability: preparation, active response, and recovery. If the countermeasure prevents the threat from causing the full anticipated consequences, those applicable consequences will be lowered in the countermeasure analysis. If the countermeasure increases preparation, active response, and/or recovery ability, the vulnerability score will be lowered. This Assessment concludes with recommendations for mitigation actions by the District that can reduce the risks to the water system.

6.1 Purchased Water

Potable water is delivered exclusively from the City of Fort Worth to the two ground storage tanks at the pump station site. Interruptions in service are possible from issues at the source water treatment plant, future inability to meet demands, or facility failures upstream of the District connection site. Groundwater could provide input for a finite period of time, but currently cannot solely meet District demands.

RECOMMENDATION 1:

Construct an emergency connection to the City of Southlake or Westlake distribution systems. The Southlake and Westlake systems would need to be sourced from a separate water treatment plant than the District system for this countermeasure to fully protect against upstream provider issues. This option incurs regional economic consequences as this requires allocation from other systems to sustain the District's system.

RECOMMENDATION 2:

Increase the pumping capacity of the existing groundwater wells or build additional groundwater wells to increase backup capacity. This could extend the duration at which a prolonged supplier service interruption can be endured.

RECOMMENDATION 3:

Build a secondary connection to a section of the Fort Worth distribution system that is sourced from a separate water treatment plant than the primary connection, if feasible. The connection would need to be sourced from a separate water treatment plant than the primary connection for this countermeasure to more fully protect against upstream provider issues. This option incurs some regional economic consequences as this requires allocation from other systems to sustain the District's system.

COUNTERMEASURE ANALYSIS:

Table 6.1 Purchased Water –Key Suppliers Dependency Countermeasures

	Existing Risk	Recommendation 1	Recommendation 2	Recommendation 3
Monetized Risk	\$4,860	\$300	\$1,020	\$720
Utility Financial Impact	\$10,000	\$0	\$5,000	\$0
Regional Economic Impact	\$0	\$10,000	\$0	\$5,000
Fatalities	0	0	0	0
Injuries	0	0	0	0
Vulnerability Likelihood	81%	5%	34%	24%
Annual Threat Likelihood	0.6	0.6	0.6	0.6

6.2 Offsite Groundwater Wells

The offsite groundwater wells lack the security to detect aboveground contamination sources. The groundwater feed line is also not tested prior to mixing with purchased water to detect contaminants. However, both ground storage tanks are tested for water quality daily. Aboveground contamination is most likely at the offsite groundwater well next to the highway frontage road from truck spills and any aquifer contamination could result from a multitude of sources upstream of the District wells and outside of Trophy Club boundaries.

RECOMMENDATION 1:

Increase detection security at the offsite groundwater well sites through camera surveillance. This countermeasure significantly increases the likelihood that a contamination will be detected in time to prevent reaching the ground storage tanks and service would not be disrupted.

RECOMMENDATION 2:

Install testing sites on the groundwater feed line or conduct routine groundwater well water quality testing. Routine groundwater testing is only effective for detecting contaminants at the frequency at which samples are taken. Continuous monitoring would allow aquifer contaminants to likely be detected in time to cutoff the groundwater feed line before a contaminant slug reaches the ground storage tanks.

COUNTERMEASURE ANALYSIS:

Table 6.2 Offsite Groundwater Wells – Accidental Contamination Countermeasures

	Existing Risk	Recommendation 1	Recommendation 2
Monetized Risk	\$500	\$0	\$0
Utility Financial Impact	\$10,000	\$0	\$0
Regional Economic Impact	\$0	\$0	\$0
Fatalities	0	0	0
Injuries	0	0	0
Vulnerability Likelihood	100%	30%	50%
Annual Threat Likelihood	0.05	0.05	0.05

6.3 Transmission Line

The 21-inch transmission line connects the District distribution system to its main source of potable water. If this critical asset failed, the District distribution system would be forced to rely on existing storage in the system at the time of failure

and the groundwater wells until the transmission line could be repaired and brought back in service. The most likely cause of a failure in this transmission main is from other utility construction or directional drilling in the vicinity.

RECOMMENDATION:

Evaluate a new, backup transmission line from the Fort Worth system. If the new line were to parallel the existing alignment, it should be offset significantly to avoid damage to both transmission lines in the case of contractor error. If the District has a backup connection to the supplier's system, there will be no interruption in service if one transmission line were to fail. This new line would also benefit the system by providing additional capacity for future demands.

COUNTERMEASURE ANALYSIS:

Table 6.3 Transmission Line – Physical Assault from Contractor Error Countermeasures

	Existing Risk	Recommendation
Monetized Risk	\$2,500	\$0
Utility Financial Impact	\$10,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	50%	30%
Annual Threat Likelihood	0.5	0.5

6.4 Pump Station

The Pump Station is the most critical and expensive asset in the District distribution system. The pump station property has excellent security features in place and is primarily more vulnerable to natural hazards.

6.4.1 Ice Storm Threat

The Pump Station is the sole source of pressure to the system and is dependent on electricity at the pump station property. In the case of a power outage, the pump station is equipped with a generator to run two pumps. The maximum generator run time for one tank of fuel is unestablished.

RECOMMENDATION:

Recommend establishing a basic gallons per hour metric under full load. This will help determine the maximum runtime and minimum refill points based on refueling logistics. This will likely be addressed in the District's updated fuel supply agreement, currently in negotiation.

COUNTERMEASURE ANALYSIS:

Table 6.4.2 Pump Station – Ice Storm Countermeasures

	Existing Risk	Recommendation
Monetized Risk	\$742	\$0
Utility Financial Impact	\$70,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	53%	5%
Annual Threat Likelihood	0.02	0.02

6.4.2 Tornado Threat

The five pumps are located above ground and unhoused leaving these assets unprotected from natural hazards. The pumps would be completely exposed to high tornadic winds for this threat scenario and would likely sustain damage that could leave the pumps inoperable until repaired.

RECOMMENDATION:

All pumps and ground storage tanks should be inspected for damage routinely and after heavy storm events. This countermeasure ensures that the pump station is consistently less vulnerable to high wind damage which decreases the potential repair time for the pump station to be out of service.

6.4.3 Sabotage Threat

The pump station has excellent security in the form of remotely accessible camera surveillance, tall perimeter fencing, and electronic access-controlled gates to potentially detect and deter intruders.

RECOMMENDATION:

Install motion-sensors to notify employees of activity at the pump station. This protects against any overnight intruder activity when utilities staff would not be checking the cameras.

6.5 Additional Recommendations**6.5.1 Elevated Storage Tanks**

The two ESTs are located in the Northwest and Southeast corners of the distribution system. Both tanks are directly connected to the distribution system but the Northwest tank is specifically designated for the PID comprising the newer planned communities in the northern area of the distribution system. If the natural hazard threats identified previously impact the southeast tank and coincide with low water availability, an allocation issue may arise that gives preferred service to the PID.

Both ESTs float on the single pressure plane of the District's distribution system and isolating the northwest EST to only serve the PID is not possible for extended periods of time. In the case of an emergency, either EST could serve as a backup to the other EST if it were taken out of service to repair damage from natural hazards. The District is currently analyzing the need for a third EST with a master plan update in progress.

RECOMMENDATION:

Consider construction of a new elevated storage tank not designated to the PID to provide redundancy to the Southeast EST as a second District-owned tank.

All tanks should be inspected for damage routinely and after heavy storm events. Inspection parameters should include cracked coating or welds at the elevated storage tank connections; broken, bent, or sagging rods; buckled struts; dented or twisted columns; or missing or loose rod pins. This countermeasure ensures that the tank is consistently less vulnerable to high wind damage which decreases the potential repair time for the tank to be out of service.

6.5.3 SCADA System

SCADA is critical to operation of the distribution system; when SCADA equipment goes down, operations are able to be performed manually. The SCADA control room is located at the pump station site and has a dedicated generator that engages automatically through mechanical, not remotely controlled, means.

RECOMMENDATION:

Although the SCADA system is not connected to an external network, a security policy needs to be written to address possible internal sabotage events to SCADA. Examples include changing the SCADA system to automatically notify other employees when changes are made or establishing emergency protocols for responding to an insider threat.

6.5.4 Power Supply

The District has sufficient generators and portable generators to maintain critical equipment during a power outage. Generators at the pump station engage automatically in the case of a power outage. The District is currently updating their fuel agreement to maintain sufficient fuel for generators and account for possible gelling due to freezing temperatures.

RECOMMENDATION:

Recommend establishing a basic gallons per hour metric under full load to determine maximum runtime and minimum refill points based on refueling logistics.

6.5.5 Winterization

During Winter Storm Uri, the Utility did not express significant concern over the operation of their system throughout the event. However, upkeep and maintenance practices should be maintained for District facilities to continue to meet this level of resilience to withstand future events

RECOMMENDATION 1:

Standardize the use of winterizing techniques on vulnerable components of the water distribution system and groundwater production at well sites. Leading up to and during freezing weather, exercise wells to ensure they retain function during the event.

RECOMMENDATION 2:

All tanks that have experienced winter storms and freezing temperatures should be inspected for damage. Inspection parameters should include cracked coating or welds at the elevated storage tank connections; broken, bent, or sagging rods; buckled struts; dented or twisted columns; or missing or loose rod pins

6.6 Conclusion

In summary, the District water system is well situated to offset threats to most critical assets. Vulnerability is generally low, with the exception of the purchased water key supplier and contamination detection from the groundwater wells. The District is unlikely to have trouble providing water for an extended period of time, given existing system storage, therefore the loss of revenue to the Utility and overall regional economic impact are minimal during short-lived emergencies.

In this analysis of countermeasures to the District water system, priority has been given to those potential improvements that have an impact on a front-line threat to critical water service. This means protecting and building redundancy in the assets that supply the District with water. This assessment determined that the value of making the recommended structural and procedural improvements would result in the reduction in the level of risk for the highest financial risks, Mitigation Ranking of 1 or 2, shown in Figure 6.1.

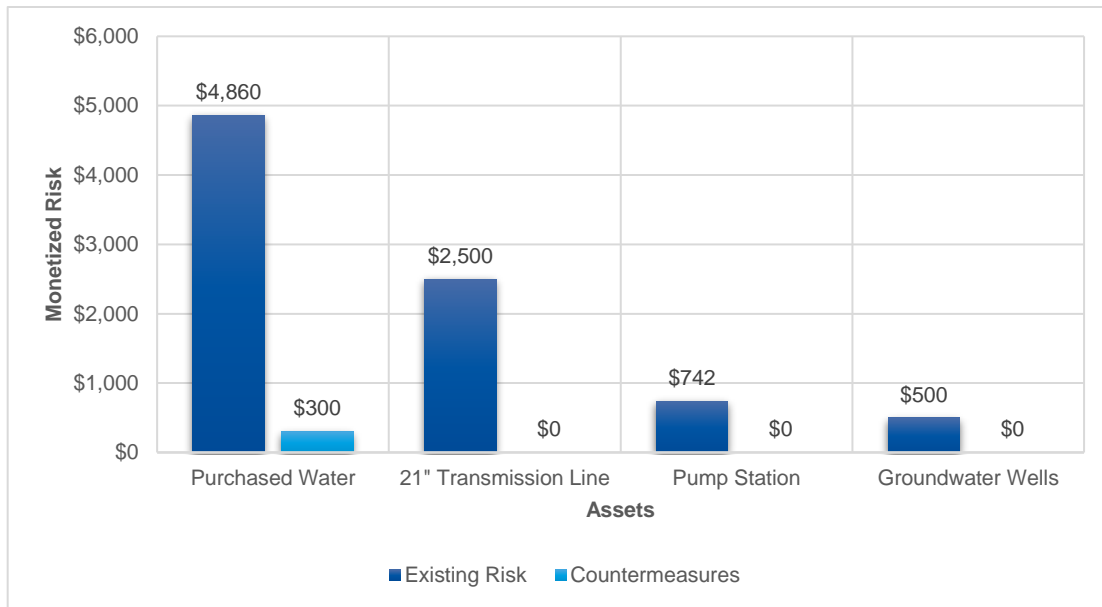


Figure 6.1. Risk Reduction for Priority Critical Assets

While the proposed countermeasures target the District’s most vulnerable critical assets, the additional recommendations offered in this concluding chapter represent ongoing efforts that will continue to add value to utility operations and increase the resiliency of the District’s water system.

**Trophy Club Municipal Utility District No. 1
Risk and Resilience Assessment**

APPENDIX A VSAT ANALYSIS

Risk Assessment Summary Report for Trophy Club Municipal Utility District

Report Date: June 17, 2021

Risk and Resilience Assessment Summary

Purpose

This risk and resilience assessment of Trophy Club Municipal Utility District was performed on June 17, 2021 using the U.S. Environmental Protection Agency's (EPA) Vulnerability Self-Assessment Tool (VSAT) Web Version 2.0. EPA developed and maintains VSAT Web to serve as an all-hazards risk and resilience assessment tool for water and wastewater utilities of all sizes. Specifically, EPA designed Version 2.0 of VSAT Web to assist community water systems with meeting the requirements for risk and resilience assessments in America's Water Infrastructure Act of 2018 (AWIA).

VSAT Web 2.0 can help water sector owners and operators with identifying the threats that present the highest risks to their facilities and with evaluating the costs and benefits of countermeasures to reduce those risks.

Methodology

VSAT Web 2.0 addresses malevolent acts, natural hazards, and dependency/proximity threats to water sector operations and analyzes the cost-effectiveness of countermeasures to reduce risk. The methodology in VSAT Web 2.0 is based on assessing the risk to a water system asset from a specific threat or hazard (i.e., an Asset-Threat Pair), where risk is defined as follows:

Risk (R) = Threat (T) X Vulnerability (V) X Consequences (C)

- T = Likelihood that the threat will be perpetrated or occur against the asset;
- V = Likelihood that the threat will damage the asset, considering the effectiveness of countermeasures; and
- C = Economic (cost to the utility and region) and public health (injuries and deaths) impacts resulting from damage to the asset.

A monetary value of statistical illness and value of statistical life are assigned to injuries and deaths, respectively, so that risk can be determined as a single monetized value.

AWIA requires community water systems to assess the risks to and resilience of specified assets from both malevolent acts and natural hazards. Accordingly, VSAT Web 2.0 begins with a characterization of water system resilience using the Utility Resilience Index, as described below. The analyst then conducts a qualitative assessment of risks from malevolent acts and natural hazards to all the assets required in AWIA. These steps can ensure that the assessment may be certified as compliant with AWIA.

Following these steps, the analyst determines which assets and threats will undergo a quantitative risk assessment, involving estimates of threat, vulnerability, and consequences. The quantitative risk assessment may include a broad spectrum of assets encompassing the entire water system, or be limited to those assets at highest risk. For threat selection, VSAT Web 2.0 includes all the malevolent acts, natural hazards, and dependency/proximity threats listed in the AWWA J100-10 Standard, along with source water (accidental and intentional) and finished water (accidental) contamination. Analysts may also designate a custom threat.

After completing a quantitative risk assessment under the current (baseline) conditions for the water system, the analyst may choose to conduct an optional assessment of additional (potential) countermeasures (an improvement analysis). VSAT Web 2.0 provides the analyst with a suite of countermeasures from which to select, or the analyst may designate a custom countermeasure. This analysis results in a profile of existing risk and a benefit/cost analysis of potential countermeasures to reduce risk.

Utility Overview

Utility Type and Information	
Utility Type	Drinking Water
Utility Name	Trophy Club Municipal Utility District
State/Territory	Texas
Zip Code	76262
Population Served	11,510
Ownership	Public
Average Daily Water Service (MGD)	2.29
Average Rate (\$/1000 gallons)	\$3.96
Comments	

To edit utility type or information, return to the Utility Overview section in the tool.

Utility Resilience Index

The Utility Resiliency Index (URI) is a risk management tool that can assess a utility’s capability to respond to and recover from an incident that impacts critical operations.¹ The URI is a valuable complement to the risk assessment performed in VSAT Web 2.0. A utility can use the URI together with the risk assessments results when developing an overall risk management plan.

The URI uses 12 indicators to calculate the index. Responses to the indicators are assigned values and weights, which are aggregated to provide a characterization of a utility’s resilience on a scale from 0% to 100%. A low URI score indicates a low capability of the utility to respond to and recover from an incident, while a high URI score indicates a greater capability to do so. If multiple statements under one indicator apply to the utility, select the statement at the highest resilience level. Statements are arranged from lowest to highest resilience level under each indicator.

The URI for Trophy Club Municipal Utility District is: 69%

¹Adapted from Morley, K. M. (2012). *Evaluating resilience in the water sector: Application of the Utility Resilience Index (URI)*. (<http://www.worldcat.org/oclc/801849602>) and used with permission.

1. **Emergency Response Plan (ERP)**

An ERP provides a tactical level plan for immediate response to incidents of all types. Select the statement below that best describes the utility's ERP.

An ERP has been developed

2. **National Incident Management System (NIMS) Compliance**

NIMS establishes a common framework for defining roles and responsibilities to enhance incident response. NIMS applies the Incident Command System (ICS) to provide the support structure for response activities. Select the statement below that best describes the utility's NIMS compliance.

ICS 700/800 provided to key staff

3. **Mutual Aid and Assistance (MAA)**

MAA agreements between other utilities and jurisdictions help to provide rapid response to incidents. Participation in such agreements is traditionally at no cost and does not obligate signatories to respond. An example is the Water/Wastewater Agency Response Network (WARN). Select the statement below that best describes the utility's MAA agreements.

Intrastate (e.g., WARN)

4. **Emergency Power for Critical Operations (EPCO)**

EPCO is a minimum benchmark of 72 hours for backup power for critical operations and assets. Select the statement below that best describes the utility's EPCO.

Greater than or equal to 73 hours of backup power

5. **Minimum Daily Demand/Treatment (MDDT)**

MDDT is the ability to meet minimum daily demand or treatment when the production or treatment plant is non-functional. For example, a drinking water utility typically has some level of in-system storage that can provide minimum daily flows for a time even though a treatment plant may be non-functional. Select the statement below that best describes the utility's MDDT.

Greater than or equal to 73 hours

6. **Critical Parts and Equipment (CPA)**

CPA is the lead time for repair, replacement, or recovery of operationally critical parts or equipment. Critical parts are defined as components of the system that upon failure may have the potential to impair the ability to produce, distribute, or treat drinking water or wastewater, including both physical and cyber/process control systems. Select the statement below that best describes the utility's CPA.

Less than 24 hours

7. **Critical Staff Resilience (CSR)**

CSR is the percentage of response-capable staff who are cross-trained in critical operations and maintenance positions and available as staff backup. This indicator is primarily related to pandemic flu planning. Select the statement below that best describes the utility's CSR.

Greater than 50 to 75%

8. **Business Continuity Plan (BCP)**

A BCP provides an overall indicator of a utility's commitment to integrating risk management principles into the management culture that supports their operations. These plans address the potential financial effects of a crisis, as well as the utility's flexibility to adapt human resource policies to meet the changing needs of employees. Select the statement below that best describes the utility's BCP.

No BCP or unknown

9. **Utility Bond Rating (UBR)**

UBRs are assigned by Moody's and indicate a utility's ability and willingness to satisfy financial obligations. The rating includes five primary factors related to municipal finance, which include market position, financial position, debt levels, governance, and covenants. Some utilities may not have a bond rating since they do not seek additional investment capital from the market. Select the statement below that best describes the utility's UBR.

AA

10. **Government Accounting Standards Board (GASB) Assessment**

A GASB Assessment determines how much infrastructure has been evaluated to provide an indication of the utility's overall commitment to proper asset management. The assessment coverage is calculated as: $100 \times \text{total number of critical assets categorized into condition categories} / \text{total number of critical assets as determined in the asset characterization step of the J100 standard}$. Select the statement below that best describes the utility's GASB Assessment.

61 to 80% assessed

11. **Unemployment***

Unemployment is a general socioeconomic indicator of a community's economic health. The Bureau of Labor Statistics (BLS) maintains a database of state and local rates (see <http://www.bls.gov/lau/tables.htm>) which provides a consistent source for determining this indicator. The value for this indicator is based on the unemployment level in the community served by the utility. Select the statement below that best describes the unemployment rate in the service area.

<= 5% National Average

12. Median Household Income (MHI)*

MHI is a socioeconomic indicator of the wealth of the community served by the utility. This indicator provides insight on the fragility of a community to withstand a significant incident that could threaten the financial stability of the utility. The U.S. Census Bureau maintains a database for each state and county (see <https://www.census.gov/quickfacts/fact/table/US/PST045218>). Select the statement below that best describes the MHI in the service area.

10% or more above State Median

To adjust any of the responses above, return to the tool and revise the selections in the Utility Resilience Index section.

Qualitative Risk Assessment

Results from the Qualitative Risk Assessment for the utility are shown below

Asset Category	Threat Type: Malevolent Act	Threat Type: Natural Hazard	Reason for not selecting threat type
Physical Barriers			Not critical.
Source Water	X	X	
Pipes and Constructed Conveyances, Water Collection, and Intake	X		
Pretreatment and Treatment			See Chemical Storage
Storage and Distribution Facilities	X	X	
Electronic, Computer, or other Automated Systems (including the security of such systems)	X		
Monitoring Practices			Low likelihood/High resilience

Asset Category	Threat Type: Malevolent Act	Threat Type: Natural Hazard	Reason for not selecting threat type
Financial Infrastructure			Low Risk/High Resilience
The Use, Storage, or Handling of Chemicals	X	X	
The Operation and Maintenance of the Utility			Accounted for in Ice Storm threats

To adjust any of the responses above, return to the tool and revise the answers in the Qualitative Risk Assessment section.

Quantitative Risk Assessment

Below is a list of the assets and threats the analyst selected for the utility's quantitative risk assessment. To edit any of the asset/threat pairs below, return to the Quantitative Risk Assessment section of the tool and make the changes.

Identified Assets	Assigned Threats		
	D(S) - Key Suppliers - Service interruption from Fort Worth water	Pumps sabotaged, no pressure input.	T3 - Tornado - Fujita 3 - Pump Station Damage
Purchased Water from Fort Worth	X		
Pumps		X	X
SCADA			
Chlorine and Ammonia Storage			
Offsite Groundwater Wells			
Elevated Storage Tanks			
21" Transmission Line from FTW			

Identified Assets	Assigned Threats		
	I3 - Ice Storm - Numerous Outages - Fuel supply - Generators	Cyber attack to control pumps and ESTs	Contamination to environment or personal injury
Purchased Water from Fort Worth			
Pumps	X		
SCADA		X	
Chlorine and Ammonia Storage			X
Offsite Groundwater Wells			
Elevated Storage Tanks			
21" Transmission Line from FTW			

Identified Assets	Assigned Threats		
	Sabotage	Contamination of offsite GW wells near TX-114	T3 - Tornado - Fujita 3 - Damage to one EST
Purchased Water from Fort Worth			
Pumps			
SCADA			
Chlorine and Ammonia Storage	X		
Offsite Groundwater Wells		X	
Elevated Storage Tanks			X
21" Transmission Line from FTW			

Identified Assets	Assigned Threats	
	I3 - Ice Storm - Numerous Outages - Heat to water level indicators	Main Break by Contractor Error
Purchased Water from Fort Worth		
Pumps		
SCADA		
Chlorine and Ammonia Storage		
Offsite Groundwater Wells		
Elevated Storage Tanks	X	
21" Transmission Line from FTW		X

Countermeasure Risk Assessment

Countermeasures comprise any infrastructure, equipment, systems, or procedures that reduce risk (threat, vulnerability, or consequences). The table below shows both the existing countermeasures identified for the utility and the potential countermeasures selected for analysis to reduce risk. To edit any of the existing countermeasures, return to the Countermeasure Risk Assessment section of the tool and make changes there.

Selected Countermeasures	Identified Assets		
	Purchased Water from Fort Worth	Pumps	SCADA
Existing Countermeasures			
Perimeter fencing			
Backup power generation on-site		X	
Supplementary Groundwater	X		
Potential Countermeasures			
Redundant water source(s)	X		
Toxicity monitoring			
Security cameras			
Water/Wastewater Agency Response Network (WARN)			
Emergency operating procedural plan		X	
Refueling Plan		X	

Selected Countermeasures	Identified Assets		
	Chlorine and Ammonia Storage	Offsite Groundwater Wells	Elevated Storage Tanks
Existing Countermeasures			
Perimeter fencing		X	
Backup power generation on-site			
Supplementary Groundwater			
Potential Countermeasures			
Redundant water source(s)			
Toxicity monitoring		X	
Security cameras		X	
Water/Wastewater Agency Response Network (WARN)			

Selected Countermeasures	Identified Assets		
Emergency operating procedural plan			
Refueling Plan			

Selected Countermeasures	Identified Assets		
	21" Transmission Line from FTW		
Existing Countermeasures			
Perimeter fencing			
Backup power generation on-site			
Supplementary Groundwater	X		
Potential Countermeasures			
Redundant water source(s)	X		
Toxicity monitoring			
Security cameras			
Water/Wastewater Agency Response Network (WARN)	X		
Emergency operating procedural plan			
Refueling Plan			

Assessment Summary

The table below shows the monetized risk summary for each asset/threat pair. Baseline results reflect existing countermeasures and improvement results reflect enhanced mitigation with the selected potential countermeasures in place. To edit any of the information shown in the table(s) below, return to either the Quantitative Risk Assessment or Countermeasure Risk Assessment section of the tool and make changes there.

Asset/Threat Pair: Purchased Water from Fort Worth/D(S) - Key Suppliers - Service interruption from Fort Worth water Monetized Risk Summary

Existing Countermeasures: Supplementary Groundwater; Potential Countermeasures: Redundant water source(s).

Risk Metrics	Baseline	Improvement
Monetized Risk	\$4,860	\$300
Utility Financial Impact	\$10,000	\$0
Regional Economic Impact	\$0	\$10,000
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	81%	5%
Annual Threat Likelihood	0.6	0.6

Asset/Threat Pair: Pumps/Pumps sabotaged, no pressure input. - Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$120	\$0
Utility Financial Impact	\$20,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	12%	
Annual Threat Likelihood	0.05	0

Asset/Threat Pair: Pumps/T3 - Tornado - Fujita 3 - Pump Station Damage Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$2	\$0
Utility Financial Impact	\$70,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	62%	
Annual Threat Likelihood	0.000043	0

Asset/Threat Pair: Pumps/I3 - Ice Storm - Numerous Outages - Fuel supply - Generators Monetized Risk Summary

Existing Countermeasures: Backup power generation on-site; Potential Countermeasures: Emergency operating procedural plan, Refueling Plan.

Risk Metrics	Baseline	Improvement
Monetized Risk	\$742	\$0
Utility Financial Impact	\$70,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	53%	5%
Annual Threat Likelihood	0.02	0.02

Asset/Threat Pair: SCADA/Cyber attack to control pumps and ESTs - Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$60	\$0
Utility Financial Impact	\$20,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	3%	
Annual Threat Likelihood	0.1	0

Asset/Threat Pair: Chlorine and Ammonia Storage/Contamination to environment or personal injury - Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$300	\$0
Utility Financial Impact	\$5,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	30%	
Annual Threat Likelihood	0.2	0

Asset/Threat Pair: Chlorine and Ammonia Storage/Sabotage - Monetized Risk Summary**Existing Countermeasures: Potential Countermeasures:**

Risk Metrics	Baseline	Improvement
Monetized Risk	\$125	\$0
Utility Financial Impact	\$5,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	50%	
Annual Threat Likelihood	0.05	0

Asset/Threat Pair: Offsite Groundwater Wells/Contamination of offsite GW wells near TX-114 - Monetized Risk Summary

Existing Countermeasures: Perimeter fencing; Potential Countermeasures: Toxicity monitoring, Security cameras.

Risk Metrics	Baseline	Improvement
Monetized Risk	\$500	\$0
Utility Financial Impact	\$10,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	100%	30%
Annual Threat Likelihood	0.05	0.05

Asset/Threat Pair: Elevated Storage Tanks/T3 - Tornado - Fujita 3 - Damage to

one EST Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$0	\$0
Utility Financial Impact	\$5,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	34%	
Annual Threat Likelihood	0.000043	0

Asset/Threat Pair: Elevated Storage Tanks/I3 - Ice Storm - Numerous Outages - Heat to water level indicators Monetized Risk Summary

Existing Countermeasures: Potential Countermeasures:

Risk Metrics	Baseline	Improvement
Monetized Risk	\$106	\$0
Utility Financial Impact	\$10,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	53%	
Annual Threat Likelihood	0.02	0

Asset/Threat Pair: 21" Transmission Line from FTW/Main Break by Contractor Error - Monetized Risk Summary

Existing Countermeasures: Supplementary Groundwater; Potential Countermeasures: Redundant water source(s), Water/Wastewater Agency Response Network (WARN).

Risk Metrics	Baseline	Improvement
Monetized Risk	\$2,500	\$0
Utility Financial Impact	\$10,000	\$0
Regional Economic Impact	\$0	\$0
Fatalities	0	0
Injuries	0	0
Vulnerability Likelihood	50%	30%
Annual Threat Likelihood	0.5	0.5

Countermeasure Costs and Packages

The table below shows the cost analyses for the selected potential countermeasures. If the analyst provided both the capital and the operations and maintenance (O&M) costs for the potential countermeasures, VSAT Web 2.0 calculated an annualized cost using a 4% finance rate over 10 years. To edit any information shown below, return to the Countermeasure Costs section of the tool and make changes there.

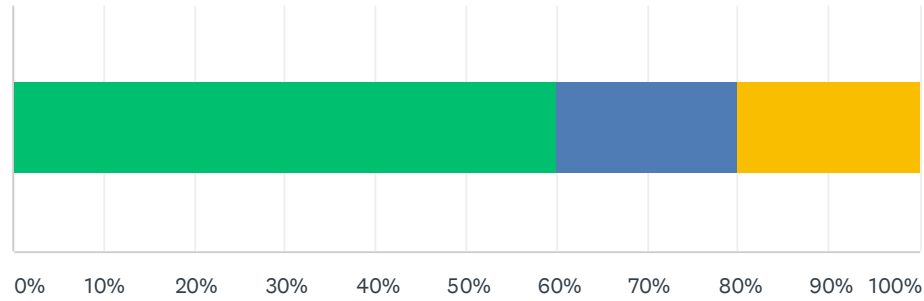
Potential Countermeasure	Capital Cost	O&M Cost	Annualized Cost
Redundant water source(s)	\$0.00	\$0.00	\$0.00
Toxicity monitoring	\$0.00	\$0.00	\$0.00
Security cameras	\$0.00	\$0.00	\$0.00
Water/Wastewater Agency Response Network (WARN)	\$0.00	\$0.00	\$0.00
Emergency operating procedural plan	\$0.00	\$0.00	\$0.00
Refueling Plan	\$0.00	\$0.00	\$0.00

To add information in this section, return to the Countermeasure Costs and Countermeasure Packages sections of the tool and complete the analysis there.

**APPENDIX B
TROPHY CLUB MUNICIPAL
UTILITY DISTRICT NO. 1
WATER UTILITY SURVEY**

Q1 How does your work connect to the District's water supply?

Answered: 5 Skipped: 0

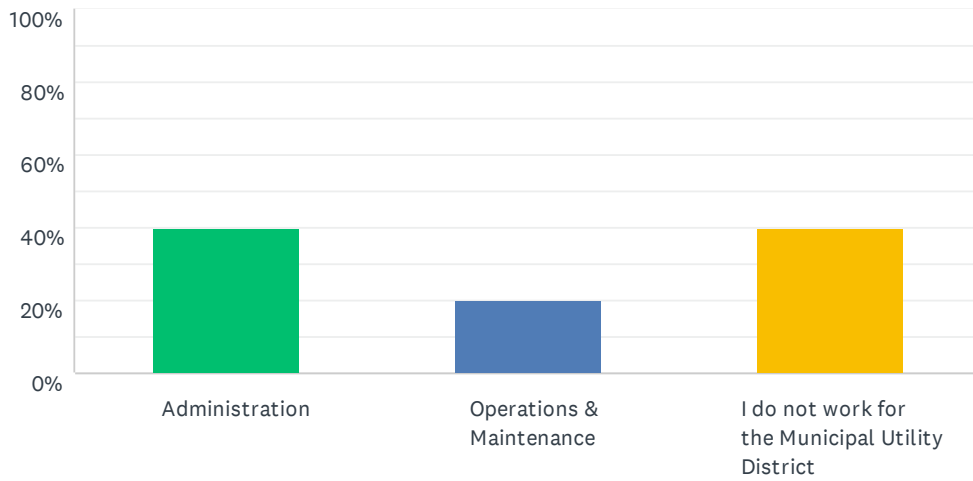


- I am a Municipal Utility District employee
- I work for a Department that interacts closely with the Municipal Utility District water system
- I am an elected or appointed official

ANSWER CHOICES	RESPONSES	
I am a Municipal Utility District employee	60.00%	3
I work for a Department that interacts closely with the Municipal Utility District water system	20.00%	1
I am an elected or appointed official	20.00%	1
TOTAL		5

Q2 If you work for the Municipal Utility District, please select the option that best describes your duties.

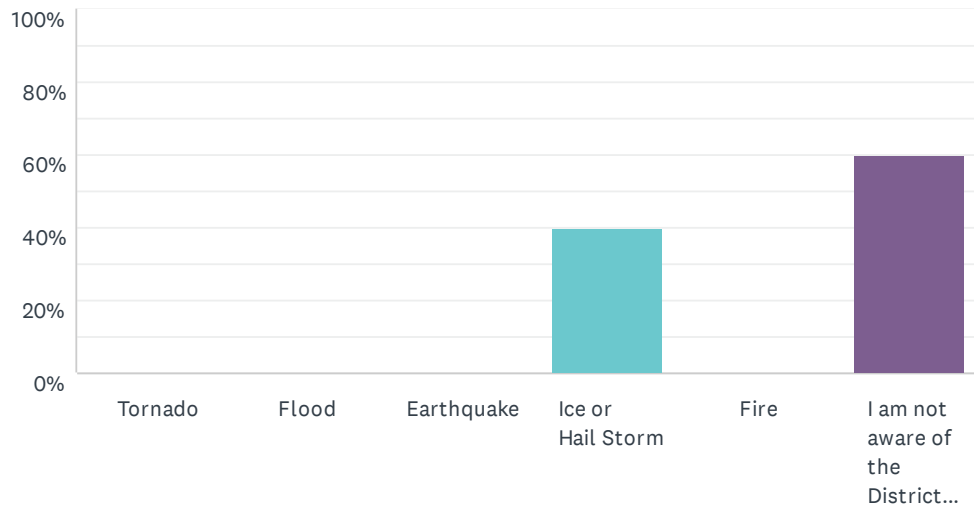
Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES	
Administration	40.00%	2
Operations & Maintenance	20.00%	1
I do not work for the Municipal Utility District	40.00%	2
TOTAL		5

Q3 To your knowledge, has the District's water supply ever been subject to any of the following natural hazards? Please select all that apply.

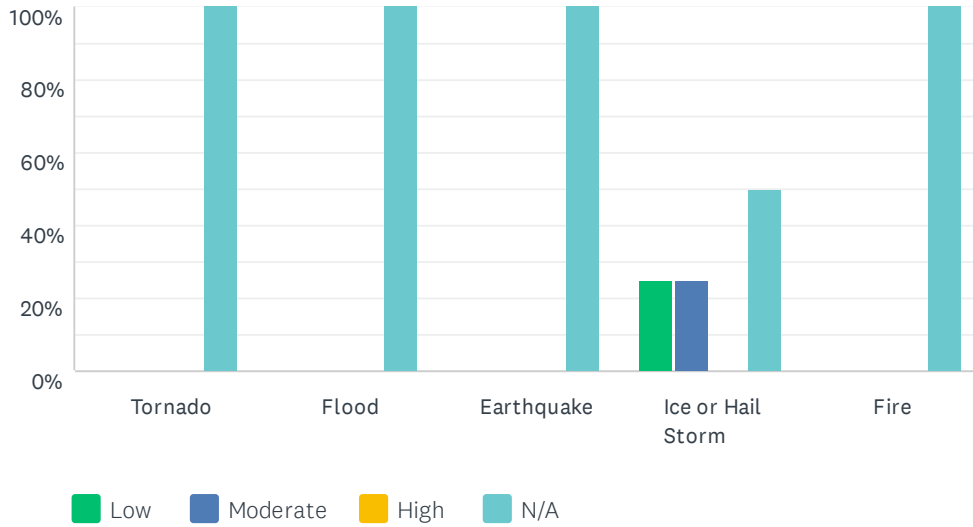
Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES	
Tornado	0.00%	0
Flood	0.00%	0
Earthquake	0.00%	0
Ice or Hail Storm	40.00%	2
Fire	0.00%	0
I am not aware of the District's water system experiencing any of these hazards	60.00%	3
Total Respondents: 5		

Q4 If the answer is yes for any of these natural hazards, please indicate the level of structural damage caused by that hazard. (Only respond if you have direct experience to share with any of these hazards. Please select "Not Applicable" for all categories that do not apply)

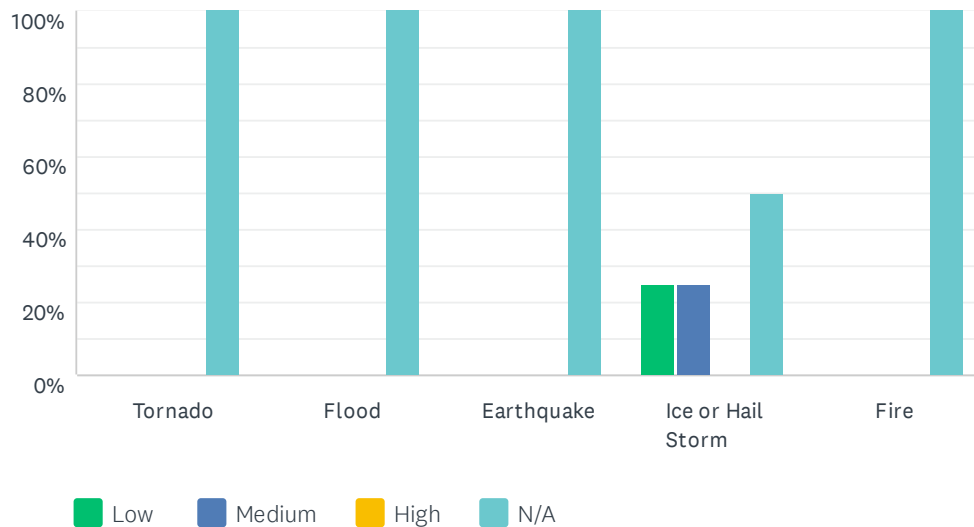
Answered: 4 Skipped: 1



	LOW	MODERATE	HIGH	N/A	TOTAL	WEIGHTED AVERAGE
Tornado	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Flood	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Earthquake	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Ice or Hail Storm	25.00% 1	25.00% 1	0.00% 0	50.00% 2	4	1.50
Fire	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00

Q5 If the answer is yes for any of these hazards, please indicate the economic impact of that hazard.

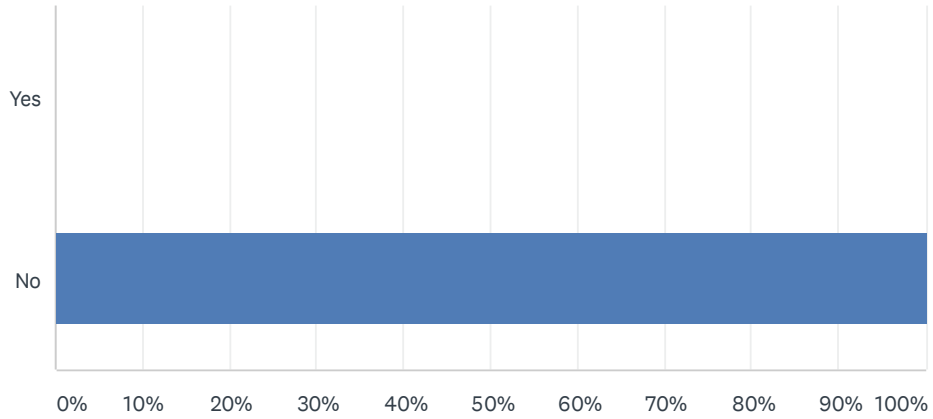
Answered: 4 Skipped: 1



	LOW	MEDIUM	HIGH	N/A	TOTAL	WEIGHTED AVERAGE
Tornado	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Flood	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Earthquake	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00
Ice or Hail Storm	25.00% 1	25.00% 1	0.00% 0	50.00% 2	4	1.50
Fire	0.00% 0	0.00% 0	0.00% 0	100.00% 4	4	0.00

Q6 Have you ever experienced a disruption in service from any of these hazards?

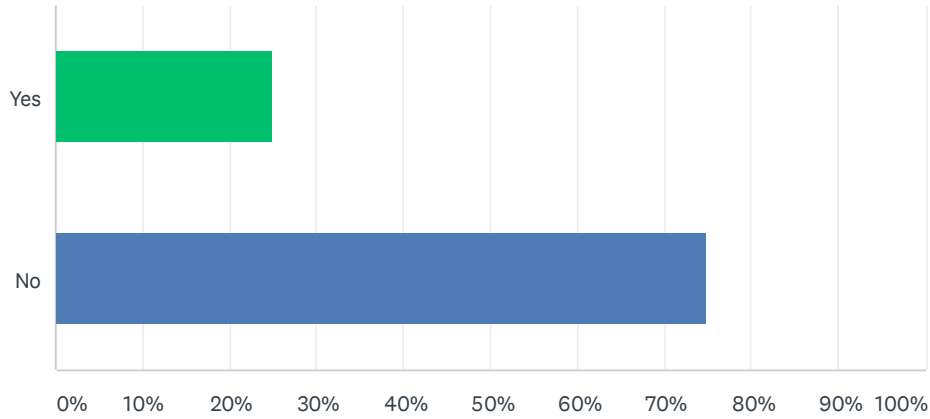
Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	4
TOTAL		4

Q7 Have your key suppliers ever experienced service interruption as the result of a hazard?

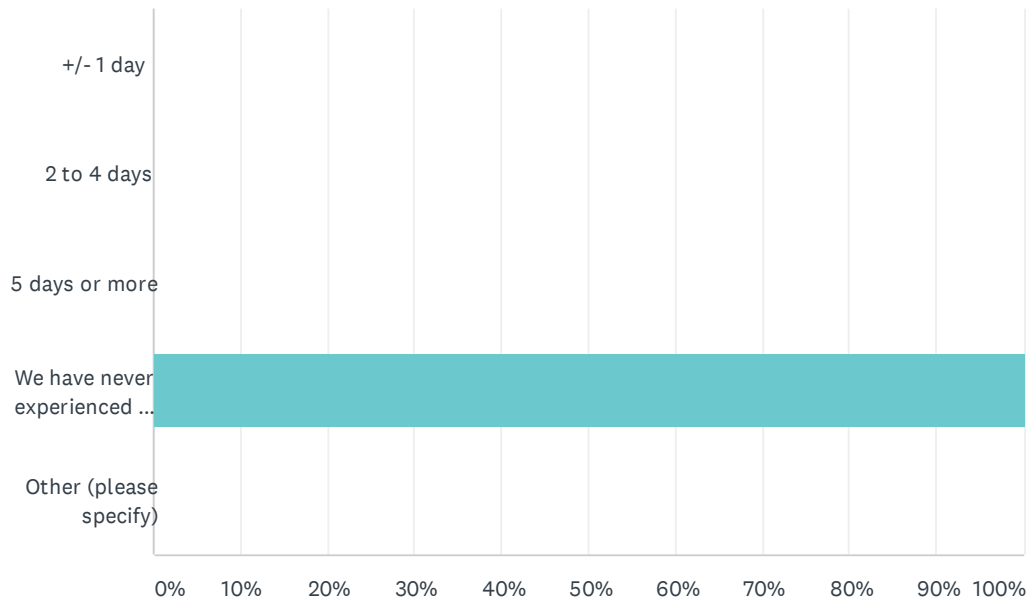
Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	25.00%	1
No	75.00%	3
TOTAL		4

Q8 If you have experienced service interruption, how many days did it last?

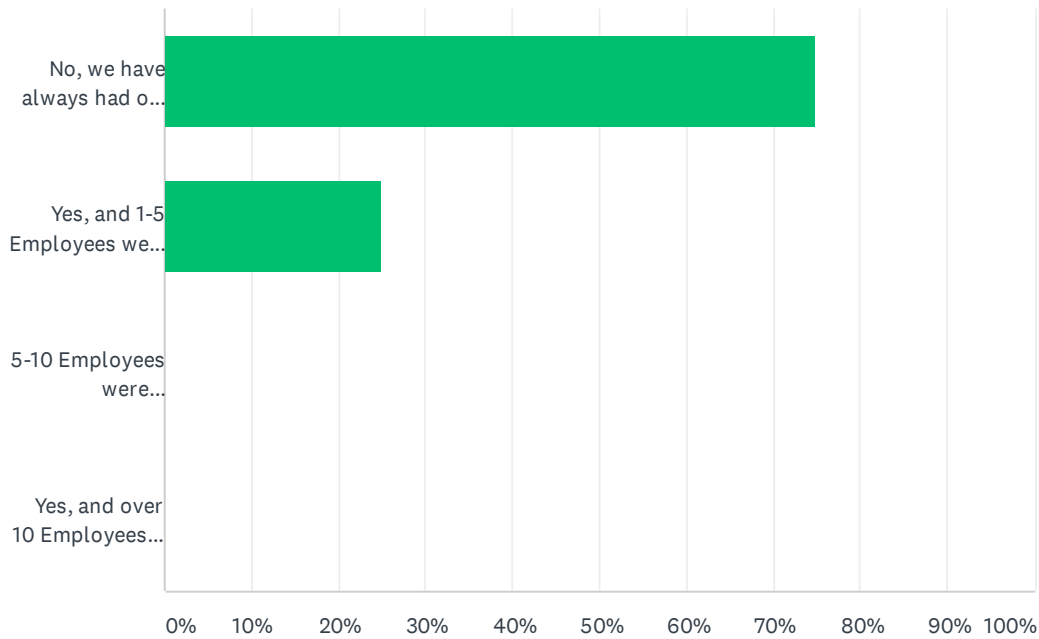
Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
+/- 1 day	0.00%	0
2 to 4 days	0.00%	0
5 days or more	0.00%	0
We have never experienced a service interruption resulting from a hazard	100.00%	4
Other (please specify)	0.00%	0
TOTAL		4

Q9 Have any of your key employees ever been unable or unwilling to work as the result of a hazard? If so, how many

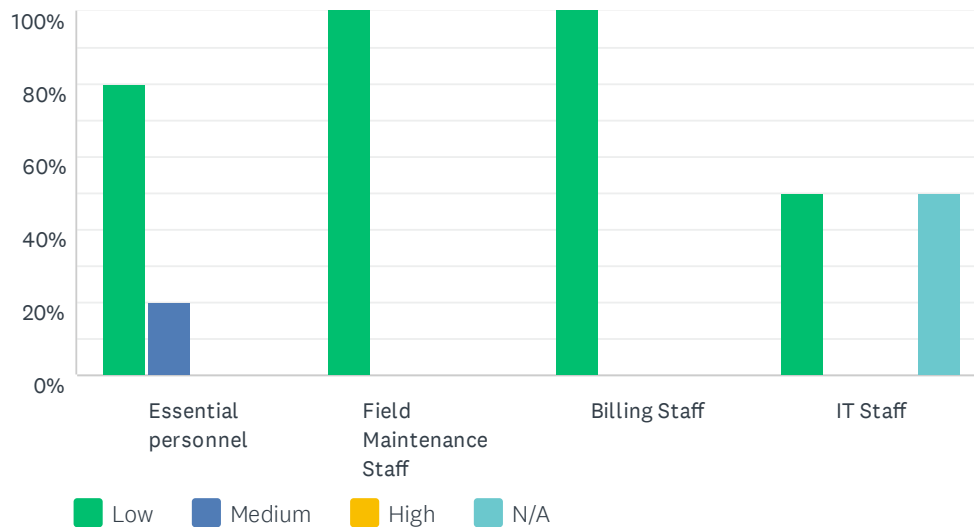
Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
No, we have always had our essential employees on the job.	75.00%	3
Yes, and 1-5 Employees were unavailable	25.00%	1
5-10 Employees were unavailable	0.00%	0
Yes, and over 10 Employees were unavailable.	0.00%	0
TOTAL		4

Q10 What has the impact of the COVID-19 virus had on the availability of your workforce?

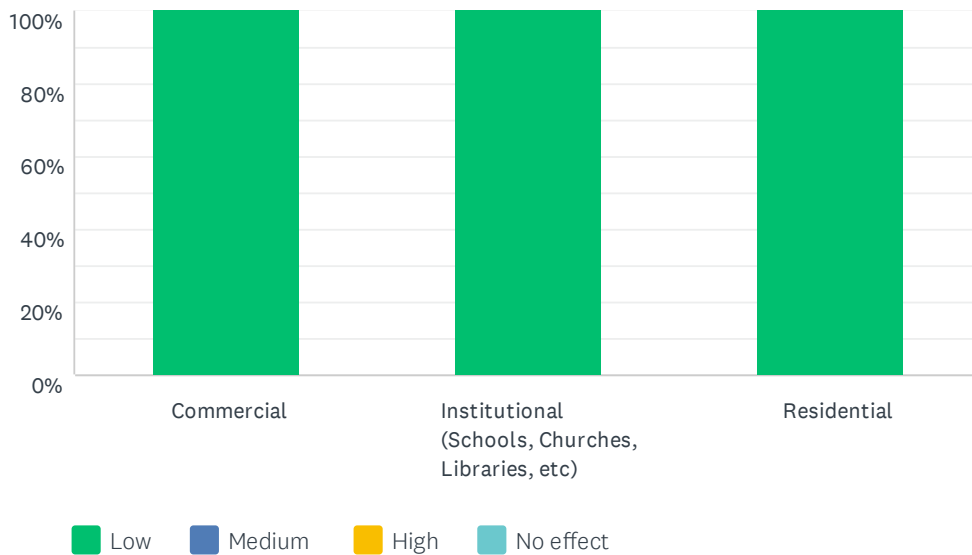
Answered: 5 Skipped: 0



	LOW	MEDIUM	HIGH	N/A	TOTAL	WEIGHTED AVERAGE
Essential personnel	80.00% 4	20.00% 1	0.00% 0	0.00% 0	5	1.20
Field Maintenance Staff	100.00% 4	0.00% 0	0.00% 0	0.00% 0	4	1.00
Billing Staff	100.00% 4	0.00% 0	0.00% 0	0.00% 0	4	1.00
IT Staff	50.00% 2	0.00% 0	0.00% 0	50.00% 2	4	1.00

Q11 To the best of your knowledge, what has been the impact of the COVID-19 pandemic on your customers' ability to pay their water or other bills?

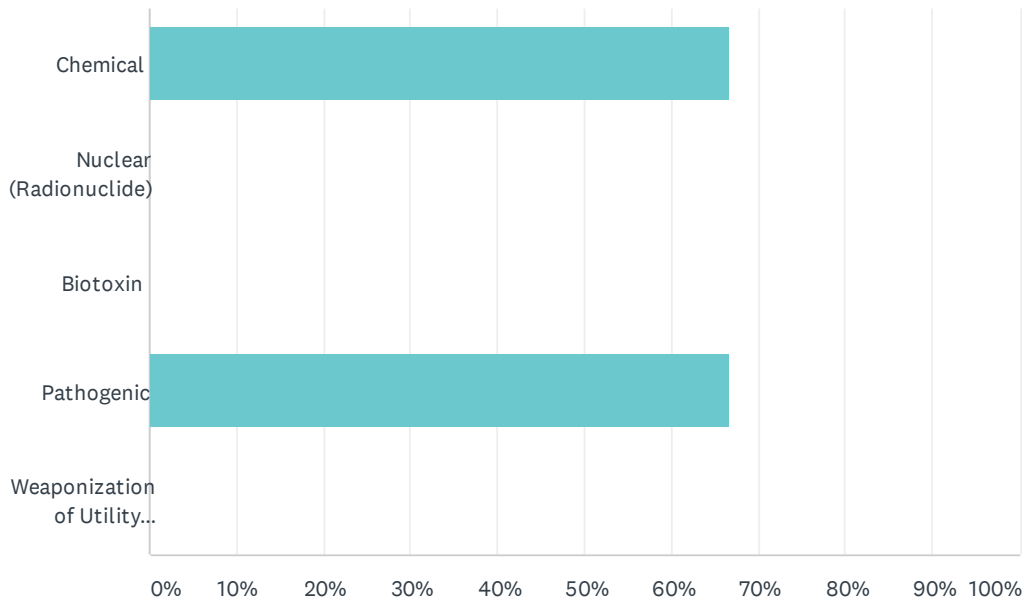
Answered: 4 Skipped: 1



	LOW	MEDIUM	HIGH	NO EFFECT	TOTAL	WEIGHTED AVERAGE
Commercial	100.00% 4	0.00% 0	0.00% 0	0.00% 0	4	1.00
Institutional (Schools, Churches, Libraries, etc)	100.00% 4	0.00% 0	0.00% 0	0.00% 0	4	1.00
Residential	100.00% 4	0.00% 0	0.00% 0	0.00% 0	4	1.00

Q12 Please select all of the Contamination threats that the District has a specific plan to respond to:

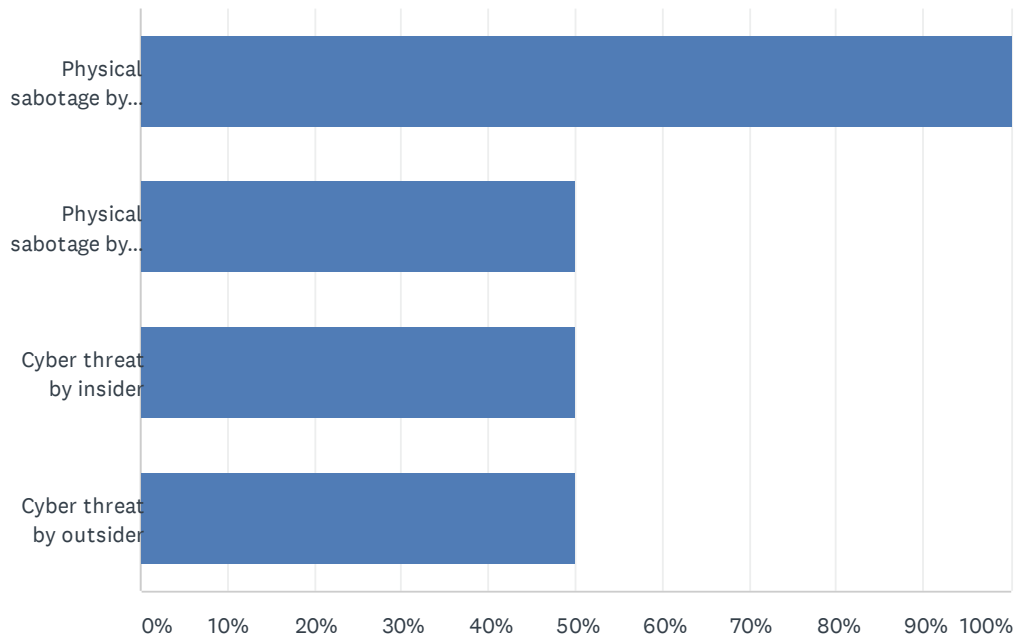
Answered: 3 Skipped: 2



ANSWER CHOICES	RESPONSES	
Chemical	66.67%	2
Nuclear (Radionuclide)	0.00%	0
Biotoxin	0.00%	0
Pathogenic	66.67%	2
Weaponization of Utility properties and assets	0.00%	0
Total Respondents: 3		

Q13 Please select all of the Process threats that the District has a specific plan to respond to:

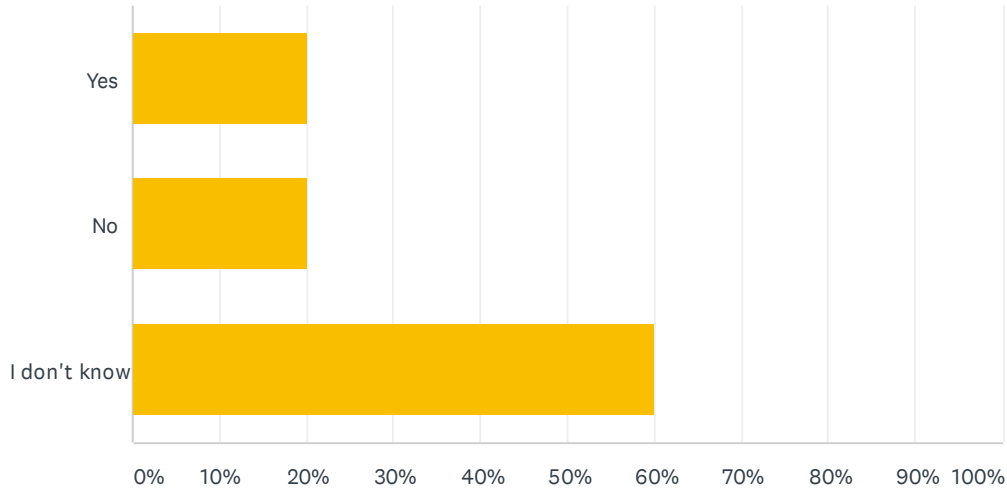
Answered: 2 Skipped: 3



ANSWER CHOICES	RESPONSES
Physical sabotage by someone with inside access	100.00% 2
Physical sabotage by outsider/ unauthorized access	50.00% 1
Cyber threat by insider	50.00% 1
Cyber threat by outsider	50.00% 1
Total Respondents: 2	

Q14 Has the District ever experienced a cyber attack?

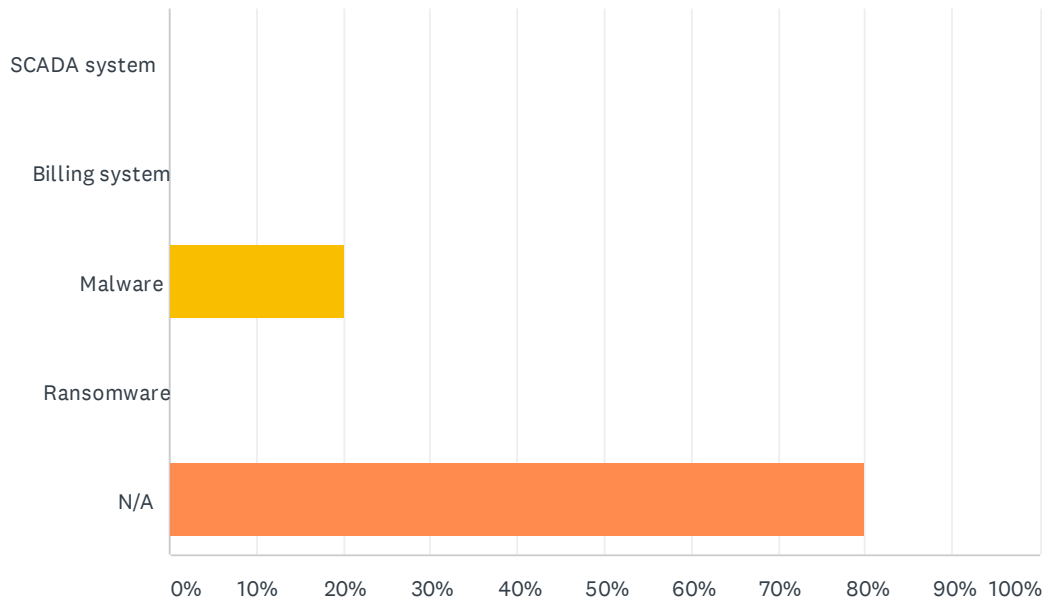
Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	20.00%	1
No	20.00%	1
I don't know	60.00%	3
TOTAL		5

Q15 If so, please select all the ways in which the cyber attack targeted the District's Water services.

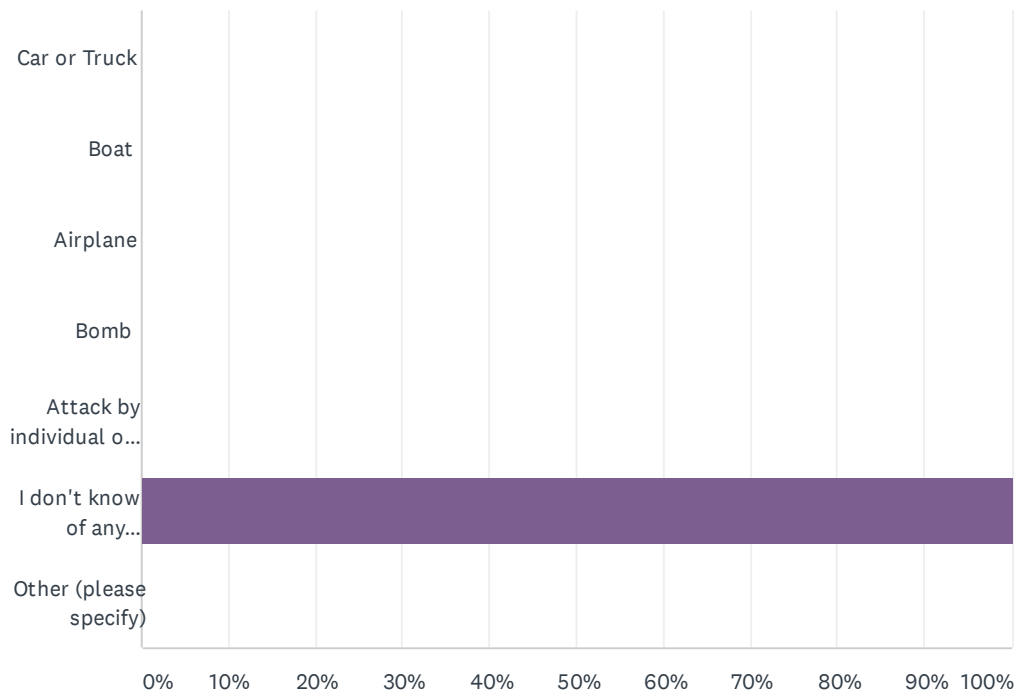
Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES	
SCADA system	0.00%	0
Billing system	0.00%	0
Malware	20.00%	1
Ransomware	0.00%	0
N/A	80.00%	4
Total Respondents: 5		

Q16 Has the District ever experienced a physical attack to one of its facilities? If so, please select all that apply

Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES
Car or Truck	0.00% 0
Boat	0.00% 0
Airplane	0.00% 0
Bomb	0.00% 0
Attack by individual or group	0.00% 0
I don't know of any incidents	100.00% 5
Other (please specify)	0.00% 0
Total Respondents: 5	

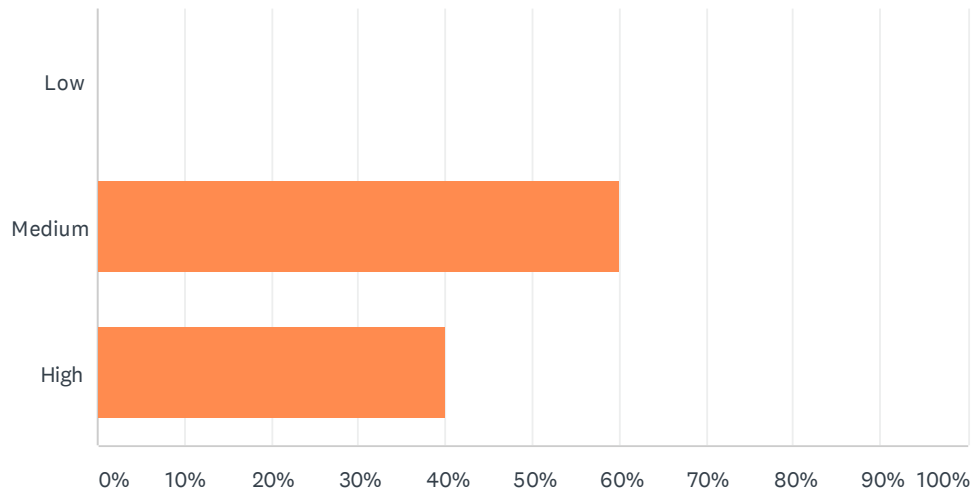
Q17 Please list any facilities that the District depends on that are owned by other entities. Examples given below. If you don't see the answer you are seeking, please write it in the (Other) comment box.

Answered: 3 Skipped: 2

ANSWER CHOICES	RESPONSES	
Water source	100.00%	3
Water storage	66.67%	2
Water treatment	0.00%	0
Third party billing	0.00%	0
Outside vendors	66.67%	2
Other	33.33%	1

Q18 Please use your best judgement to rate how resilient you believe the District's water supply would be to Natural Hazards.

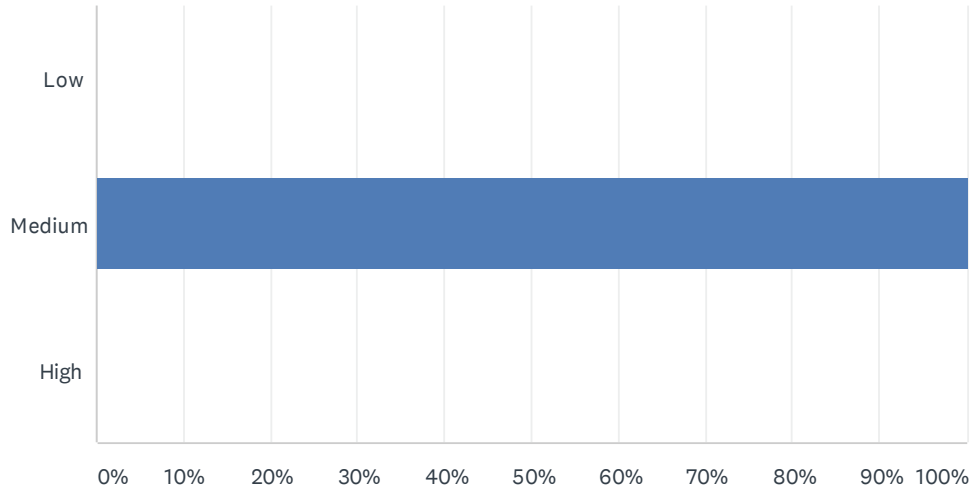
Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES
Low	0.00% 0
Medium	60.00% 3
High	40.00% 2
TOTAL	5

Q19 Please use your best judgement to rate how resilient you believe the District's water supply would be to Malevolent Threats.

Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES
Low	0.00% 0
Medium	100.00% 5
High	0.00% 0
TOTAL	5

Q20 Please use the comment box below to address any additional concerns you may have that should be addressed in the preparation of this Risk and Resilience Assessment.

Answered: 2 Skipped: 3

Bidder					Excel Aircraft, LLC		M-Co Construction, Inc.		North Texas Contracting, Inc.		Rey-Mar Construction	
					DBA Excel Trenching		PO Box 489		PO Box 468		3416 Reed Street	
					228 SE Loop 59		Springtown, TX 76082		Keller, TX 76244		Fort Worth, TX 76119	
					Carthage, TX 75633							
Item No.	Description	Unit	Qty	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	
Section I - Base Bid												
1	Mobilization and General Site Preparation (10% Maximum of Total Bid)	LS	1	\$ 275,000.00	\$ 275,000.00	\$ 300,000.00	\$ 300,000.00	\$ 330,500.00	\$ 330,500.00	\$ 360,000.00	\$ 360,000.00	
2	Traffic Control	LS	1	\$ 22,000.00	\$ 22,000.00	\$ 26,400.00	\$ 26,400.00	\$ 6,000.00	\$ 6,000.00	\$ 11,000.00	\$ 11,000.00	
3	Project Signs	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 600.00	\$ 1,200.00	\$ 600.00	\$ 1,200.00	\$ 1,250.00	\$ 2,500.00	
4	Storm Water Pollution Prevention Plan (SWPPP)	LS	1	\$ 34,000.00	\$ 34,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,500.00	\$ 3,500.00	\$ 20,000.00	\$ 20,000.00	
5	Remove and Replace Concrete Block Retaining Wall	LF	15	\$ 1,200.00	\$ 18,000.00	\$ 138.00	\$ 2,070.00	\$ 400.00	\$ 6,000.00	\$ 990.00	\$ 14,850.00	
6	Sawcut, Remove and Replace Existing Concrete Pavement	SY	1,454	\$ 120.00	\$ 174,480.00	\$ 146.30	\$ 212,720.20	\$ 110.00	\$ 159,940.00	\$ 220.00	\$ 319,880.00	
7	Remove and Replace Existing Flexible Base	SY	135	\$ 18.00	\$ 2,430.00	\$ 7.20	\$ 972.00	\$ 10.00	\$ 1,350.00	\$ 60.00	\$ 8,100.00	
8	Sawcut, Remove and Replace Existing Concrete Sidewalk	SF	96	\$ 6.00	\$ 576.00	\$ 10.20	\$ 979.20	\$ 20.00	\$ 1,920.00	\$ 120.00	\$ 11,520.00	
9	Abandon Existing Water Line	LF	1,478	\$ 13.00	\$ 19,214.00	\$ 6.00	\$ 8,868.00	\$ 20.00	\$ 29,560.00	\$ 30.00	\$ 44,340.00	
10	12-Inch PVC C900 Water Line (Open Cut)	LF	534	\$ 127.00	\$ 67,818.00	\$ 100.62	\$ 53,731.08	\$ 140.00	\$ 74,760.00	\$ 112.00	\$ 59,808.00	
11	14-Inch PVC C900 Water Line (Open Cut)	LF	109	\$ 180.00	\$ 19,620.00	\$ 124.25	\$ 13,543.25	\$ 185.00	\$ 20,165.00	\$ 164.00	\$ 17,876.00	
12	16-Inch PVC C900 Water Line (Open Cut)	LF	2,938	\$ 190.00	\$ 558,220.00	\$ 150.60	\$ 442,462.80	\$ -	\$ -	\$ 165.00	\$ 484,770.00	
13	18-Inch PVC C900 Water Line (Open Cut)	LF	2,648	\$ 200.00	\$ 529,600.00	\$ 182.97	\$ 484,504.56	\$ -	\$ -	\$ 218.00	\$ 577,264.00	
14	24-Inch Steel Casing Pipe (Open Cut) and 12-Inch PVC C900 Water Line Carrier Pipe	LF	25	\$ 272.00	\$ 6,800.00	\$ 171.91	\$ 4,297.75	\$ 600.00	\$ 15,000.00	\$ 495.00	\$ 12,375.00	
15	30-Inch Steel Casing Pipe (Open Cut) and 14-Inch PVC C900 Water Line Carrier Pipe	LF	18	\$ 320.00	\$ 5,760.00	\$ 252.12	\$ 4,538.16	\$ 750.00	\$ 13,500.00	\$ 650.00	\$ 11,700.00	
16	30-Inch Steel Casing Pipe (Open Cut) and 16-Inch PVC C900 Water Line Carrier Pipe	LF	25	\$ 400.00	\$ 10,000.00	\$ 276.12	\$ 6,903.00	\$ 750.00	\$ 18,750.00	\$ 850.00	\$ 21,250.00	
17	36-Inch Steel Casing Pipe (Open Cut) and 18-Inch PVC C900 Water Line Carrier Pipe	LF	19	\$ 435.00	\$ 8,265.00	\$ 315.51	\$ 5,994.69	\$ 900.00	\$ 17,100.00	\$ 905.00	\$ 17,195.00	
18	30-Inch Steel Casing Pipe (Bore) and 16-Inch PVC C900 Water Line Carrier Pipe	LF	120	\$ 790.00	\$ 94,800.00	\$ 557.90	\$ 66,948.00	\$ 900.00	\$ 108,000.00	\$ 960.00	\$ 115,200.00	
19	36-Inch Steel Casing Pipe (Bore) and 18-Inch PVC C900 Water Line Carrier Pipe	LF	100	\$ 1,100.00	\$ 110,000.00	\$ 679.30	\$ 67,930.00	\$ 1,200.00	\$ 120,000.00	\$ 1,170.00	\$ 117,000.00	
20	Trench Safety for Water Lines	LF	6,316	\$ 6.00	\$ 37,896.00	\$ 1.00	\$ 6,316.00	\$ 1.00	\$ 6,316.00	\$ 3.00	\$ 18,948.00	
21	Utility Markers	LS	1	\$ 80.00	\$ 80.00	\$ 4,560.00	\$ 4,560.00	\$ 2,000.00	\$ 2,000.00	\$ 3,200.00	\$ 3,200.00	
22	10-Inch Gate Valve	EA	1	\$ 2,800.00	\$ 2,800.00	\$ 2,933.98	\$ 2,933.98	\$ 2,800.00	\$ 2,800.00	\$ 3,000.00	\$ 3,000.00	
23	12-Inch Gate Valve	EA	6	\$ 3,300.00	\$ 19,800.00	\$ 3,593.98	\$ 21,563.88	\$ 3,000.00	\$ 18,000.00	\$ 3,300.00	\$ 19,800.00	
24	12-Inch Butterfly Valve and Actuator	EA	1	\$ 22,000.00	\$ 22,000.00	\$ 5,393.98	\$ 5,393.98	\$ 10,000.00	\$ 10,000.00	\$ 16,000.00	\$ 16,000.00	
25	16-Inch Butterfly Valve	EA	7	\$ 19,000.00	\$ 133,000.00	\$ 8,001.97	\$ 56,013.79	\$ 10,000.00	\$ 70,000.00	\$ 15,100.00	\$ 105,700.00	
26	18-Inch Butterfly Valve	EA	4	\$ 17,500.00	\$ 70,000.00	\$ 9,155.96	\$ 36,623.84	\$ 12,000.00	\$ 48,000.00	\$ 13,500.00	\$ 54,000.00	
27	Blow-Off Valve (6-Inch)	EA	3	\$ 4,700.00	\$ 14,100.00	\$ 8,777.90	\$ 26,333.70	\$ 5,000.00	\$ 15,000.00	\$ 4,000.00	\$ 12,000.00	
28	Combination Air and Vacuum Release Valve (2-Inch)	EA	3	\$ 9,300.00	\$ 27,900.00	\$ 10,117.10	\$ 30,351.30	\$ 6,000.00	\$ 18,000.00	\$ 8,000.00	\$ 24,000.00	
29	Concrete Encasement	LF	315	\$ 112.00	\$ 35,280.00	\$ 148.08	\$ 46,645.20	\$ 100.00	\$ 31,500.00	\$ 45.00	\$ 14,175.00	
30	Connect to Existing Water Line (10-Inch to 16-Inch)	EA	10	\$ 13,000.00	\$ 130,000.00	\$ 6,713.90	\$ 67,139.00	\$ 5,000.00	\$ 50,000.00	\$ 9,500.00	\$ 95,000.00	
31	10-Inch PVC SDR 26 Sanitary Sewer (Open Cut)	LF	26	\$ 70.00	\$ 1,820.00	\$ 190.45	\$ 4,951.70	\$ 300.00	\$ 7,800.00	\$ 145.00	\$ 3,770.00	
32	Trench Safety for Sanitary Sewer Lines	LF	26	\$ 7.00	\$ 182.00	\$ 1.00	\$ 26.00	\$ 1.00	\$ 26.00	\$ 115.00	\$ 2,990.00	
33	Connect to Existing Sanitary Sewer Manhole	EA	1	\$ 3,700.00	\$ 3,700.00	\$ 1,931.96	\$ 1,931.96	\$ 1,000.00	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00	
34	Connect to Existing Sanitary Sewer Line	EA	1	\$ 3,700.00	\$ 3,700.00	\$ 1,184.95	\$ 1,184.95	\$ 1,000.00	\$ 1,000.00	\$ 8,500.00	\$ 8,500.00	
35	Tree Removal	EA	65	\$ 1,200.00	\$ 78,000.00	\$ 480.00	\$ 31,200.00	\$ 1,200.00	\$ 78,000.00	\$ 250.00	\$ 16,250.00	
36	Tree Protection and Root Pruning	LS	1	\$ 17,000.00	\$ 17,000.00	\$ 7,992.00	\$ 7,992.00	\$ 10,000.00	\$ 10,000.00	\$ 8,500.00	\$ 8,500.00	
37	Canopy Tree	EA	17	\$ 1,700.00	\$ 28,900.00	\$ 3,540.00	\$ 60,180.00	\$ 1,500.00	\$ 25,500.00	\$ 1,500.00	\$ 25,500.00	
38	Ornamental Tree	EA	24	\$ 1,700.00	\$ 40,800.00	\$ 1,176.00	\$ 28,224.00	\$ 950.00	\$ 22,800.00	\$ 1,100.00	\$ 26,400.00	
39	Sodding	SY	10,648	\$ 6.00	\$ 63,888.00	\$ 4.44	\$ 47,277.12	\$ 6.00	\$ 63,888.00	\$ 6.50	\$ 69,212.00	
40	Topsoil	SY	10,648	\$ 4.50	\$ 47,916.00	\$ 8.40	\$ 89,443.20	\$ 1.00	\$ 10,648.00	\$ 5.50	\$ 58,564.00	
41	Rock Riprap	CY	226	\$ 290.00	\$ 65,540.00	\$ 258.00	\$ 58,308.00	\$ 150.00	\$ 150,000.00	\$ 250.00	\$ 56,500.00	
42	Remove Junction Box	EA	1	\$ 1,700.00	\$ 1,700.00	\$ 2,760.00	\$ 2,760.00	\$ 1,000.00	\$ 4,000.00	\$ 5,500.00	\$ 5,500.00	
43	Storm Drain Junction Box (5'x3')	EA	1	\$ 24,600.00	\$ 24,600.00	\$ 6,346.48	\$ 6,346.48	\$ 4,000.00	\$ 4,000.00	\$ 9,500.00	\$ 9,500.00	
44	Remove Existing Storm Drain Pipe	LF	6	\$ 25.00	\$ 150.00	\$ 21.60	\$ 129.60	\$ 100.00	\$ 600.00	\$ 700.00	\$ 4,200.00	
45	RCP (18-inch)	LF	12	\$ 60.00	\$ 720.00	\$ 186.89	\$ 2,242.68	\$ 360.00	\$ 4,320.00	\$ 600.00	\$ 7,200.00	
46	Electrical and SCADA Installation Allowance at Elevated Storage Tank	LS	1	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	
47	Additional District Directed Services Allowance	LS	1	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	\$ 200,000.00	
				Total Base Bid	\$ 3,050,055.00	\$ 2,573,135.05	\$ 2,573,135.05	\$ 1,802,443.00	\$ 1,802,443.00	\$ 3,118,037.00	\$ 3,118,037.00	
Alternate Bid 1												
1-1	16-Inch Water Line (Fusible PVC) (Directional Drill)	LF	1296	\$ 270.00	\$ 349,920.00	\$ 457.15	\$ 592,466.40	\$ 275.00	\$ 356,400.00	\$ 141.50	\$ 183,384.00	
				Total Alternate Bid 1	\$ 349,920.00	\$ 592,466.40	\$ 592,466.40	\$ 356,400.00	\$ 356,400.00	\$ 183,384.00	\$ 183,384.00	
Alternate Bid 2												
2-1	16-Inch Water Line (Restrained Joint PVC) (Directional Drill)	LF	1296	\$ 280.00	\$ 362,880.00	\$ 436.28	\$ 565,418.88	\$ 309.00	\$ 400,464.00	\$ 231.86	\$ 300,490.56	
				Total Alternate Bid 2	\$ 362,880.00	\$ 565,418.88	\$ 565,418.88	\$ 400,464.00	\$ 400,464.00	\$ 300,490.56	\$ 300,490.56	
TOTAL BID A = Total Base Bid + Total Alternate Bid 1					\$ 3,399,975.00	\$ 3,165,601.45	\$ 3,165,601.45	\$ 2,158,843.00	\$ 2,158,843.00	\$ 3,301,421.00	\$ 3,301,421.00	
TOTAL BID B = Total Base Bid + Total Alternate Bid 2					\$ 3,412,935.00	\$ 3,138,553.93	\$ 3,138,553.93	\$ 2,202,907.00	\$ 2,202,907.00	\$ 3,418,527.56	\$ 3,418,527.56	
North Texas Contracting, Inc. Total Base Bid was written as \$3,168,401, TOTAL BID A as \$3,524,801, and TOTAL BID B as \$3,568,865.												



July 21, 2021
AVO 33344.001

Mr. Alan Fourmentin
Trophy Club MUD No. 1
100 Municipal Drive
Trophy Club, Texas 76262

RE: Water Line Interconnect from Town Center Development to Eastern EST – Letter of Recommendation

Dear Mr. Fourmentin,

Bids were opened for the above referenced project on Thursday, July 15, 2021 at 10:00 a.m. at the Trophy Club MUD No. 1. Four (4) bids were received for the project. Halff Associates (Halff) has verified the bid tabulations and the overall low bidder is **M-Co Construction, Inc.** Please see a summary of the Interconnect bids below. The low bidder and recommended bid total (for installation of fusible PVC by HDD) are highlighted.

Water Line Interconnect		
Contractor	Total Bid A (Fusible PVC)	Total Bid B (Restrained Joint PVC)
Excel Aircraft, LLC dba Excel Trenching	\$3,399,975.00	\$3,412,935.00
M-Co Construction, Inc.	\$3,165,601.45	\$3,138,553.93
North Texas Contracting, Inc.	\$3,524,801.00	\$3,568,865.00
Rey-Mar Construction	\$3,301,421.00	\$3,418,527.56

M-Co's bid bonds, qualifications, and experience are attached to this letter. Halff contacted the provided references and we received the following responses:

1. Rebcon, General Contractor – Danny Krieg: Good recommendation. M-Co has been a subcontractor on several of their jobs including Main Street Reconstruction for the City of Richardson, Abram Street Phase 1 & 2 for the City of Arlington, and Gus Thomasson Road for the City of Mesquite. When issues arose, M-Co did everything they could to make it right, even though they were not at fault. No issues with their work or schedule.
2. City of Arlington – Laurie Du: Good recommendation. Ms. Du said M-Co did a good job as the utility contractor on the Abram Street Phase 1 & 2 project. This project is in an older area of the city with little record of services. They handled the unknowns and extra work well. Schedule was not an issue.
3. Pavecon, General Contractor – Jason Jones: Good recommendation. Mr. Jones is currently working with M-Co on the Daniieldale Road project for the City of Duncanville. He said they



Alan Fourmentin
Trophy Club MUD No. 1
July 21, 2021
Page 2

are doing a good job and staying on schedule. The only delays have been related to weather and unknown existing utilities in the area.

Halff recommends awarding the Water Line Interconnect project to **M-Co Construction, Inc.** in the amount of **\$3,165,601.45**.

If you have any questions, please contact me at (817) 764-7459.

Sincerely,

HALFF ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Leah M. Hodge".

Leah M. Hodge, PE, CFM
Project Manager

**STATEMENT OF BIDDING CONTRACTOR'S QUALIFICATIONS
AND EXPERIENCE**

CONTRACTOR M-Co Construction, Inc.

Note: Demonstrate a minimum of three years' experience. The information provided to Trophy Club Municipal Utility District No. 1 on this form will be used, in part at least, to determine whether the perceived low bidder is the responsible low bidder for purposes of this Project.

PLEASE RESPOND TO THE FOLLOWING QUESTIONS:

1. Number of years in business as a General Contractor performing the type(s) of work required for this Project. 38 years .
2. Types of work performed:

<input type="checkbox"/> Asphalt Paving	<input type="checkbox"/> Concrete Structures	<input type="checkbox"/> Miscellaneous Concrete
<input type="checkbox"/> Auxiliary Lanes	<input type="checkbox"/> Demolition	<input checked="" type="checkbox"/> Storm Sewer
<input checked="" type="checkbox"/> Sanitary Sewer	<input checked="" type="checkbox"/> Water	<input type="checkbox"/> Concrete Paving
<input type="checkbox"/> Bridge Work	<input type="checkbox"/> Earth Work	<input type="checkbox"/> Subgrade Preparation
<input type="checkbox"/> Channel Lining	<input type="checkbox"/> Fencing	<input type="checkbox"/> Landscaping
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____
3. Greatest number of contracts in excess of \$500,000.00 under construction at one time in company's history. 6 .
4. Greatest number of contracts in excess of \$1,000,000.00 under construction at one time in company's history. 4
5. Approximate average of dollar value of incomplete work outstanding under contracts at any one time. \$6,000,000.00 .
6. List **completed projects** of the type of work of this Project or similar work plus the following information on each such project (use attachments for additional work if necessary).

NAME OF PROJECT: See Attached

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

TOTAL CONTRACT COST: _____ **COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days Required:** _____

Extra Days Granted: _____ **Amount Liquidated Damages:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

TOTAL CONTRACT COST: _____ **COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days Required:** _____

Extra Days Granted: _____ **Amount Liquidated Damages:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

TOTAL CONTRACT COST: _____ **COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days Required:** _____

Extra Days Granted: _____ **Amount Liquidated Damages:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

TOTAL CONTRACT COST: _____ **COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days Required:** _____

Extra Days Granted: _____ **Amount Liquidated Damages:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

TOTAL CONTRACT COST: _____ **COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days Required:** _____

Extra Days Granted: _____ **Amount Liquidated Damages:** _____

- 7. List **incomplete projects**, plus the following information on each such project (use attachments for additional work if necessary).

NAME OF PROJECT: See Attached _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

CONTRACT COST: _____ **PROJECTED COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days used to date:** _____

Extra Days Granted: _____ **Anticipated Late Days, if any:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

CONTRACT COST: _____ **PROJECTED COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days used to date:** _____

Extra Days Granted: _____ **Anticipated Late Days, if any:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

CONTRACT COST: _____ **PROJECTED COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days used to date:** _____

Extra Days Granted: _____ **Anticipated Late Days, if any:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ **PHONE:** _____

CONTRACT COST: _____ **PROJECTED COMPLETION DATE:** _____

DESCRIPTION: _____

Number Work Days Allowed: _____ **Number Work Days used to date:** _____

Extra Days Granted: _____ **Anticipated Late Days, if any:** _____

NAME OF PROJECT: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ PROJECTED COMPLETION DATE: _____

DESCRIPTION: _____

Number Work Days Allowed: _____ Number Work Days used to date: _____

Extra Days Granted: _____ Anticipated Late Days, if any: _____

- 8. Have you or any present partner(s) or officer(s) **failed to complete a contract?** No
 If yes, please list the **projects for which contracts were not completed**, plus the following information on each such project (use attachments for additional work if necessary).

NAME OF PROJECT: _____

COMPANY NAME, if different: _____

NAME OF PARTNER / OFFICER: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ DEFAULT / TERMINATION DATE: _____

DESCRIPTION: _____

SURETY: _____

POINT OF CONTACT: _____ PHONE: _____

PERFORMANCE / PAYMENT BOND NUMBERS: _____

NAME OF PROJECT: _____

COMPANY NAME, if different: _____

NAME OF PARTNER / OFFICER: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ DEFAULT / TERMINATION DATE: _____

DESCRIPTION: _____

SURETY: _____

POINT OF CONTACT: _____ PHONE: _____

PERFORMANCE / PAYMENT BOND NUMBERS: _____

NAME OF PROJECT: _____

COMPANY NAME, if different: _____

NAME OF PARTNER / OFFICER: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ DEFAULT / TERMINATION DATE: _____

DESCRIPTION: _____

SURETY: _____

POINT OF CONTACT: _____ PHONE: _____

PERFORMANCE / PAYMENT BOND NUMBERS: _____

NAME OF PROJECT: _____

COMPANY NAME, if different: _____

NAME OF PARTNER / OFFICER: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ DEFAULT / TERMINATION DATE: _____

DESCRIPTION: _____

SURETY: _____

POINT OF CONTACT: _____ PHONE: _____

PERFORMANCE / PAYMENT BOND NUMBERS: _____

NAME OF PROJECT: _____

COMPANY NAME, if different: _____

NAME OF PARTNER / OFFICER: _____

OWNER: _____

POINT OF CONTACT: _____ PHONE: _____

CONTRACT COST: _____ DEFAULT / TERMINATION DATE: _____

DESCRIPTION: _____

SURETY: _____

POINT OF CONTACT: _____ PHONE: _____

PERFORMANCE / PAYMENT BOND NUMBERS: _____

- 9. Are there any **unsatisfied demands** upon you regarding your accounts payable? If yes, give names, amounts and explanations (use attachments for additional unsatisfied demands if necessary). No

10. Have you or any present partner(s) or officer(s) **been convicted of a felony or a crime involving moral turpitude (i.e., theft, bribery, fraud, perjury and so forth) within the past ten (10) years?** No If yes, please list the date of each such conviction, the identity of the person(s) so convicted, the crime for which each such person was convicted, the sentence(s) issued for each such conviction, the current status of the sentence(s) and whether the conviction was related to any project(s) for which contracts were awarded by a governmental entity (use attachments for additional convictions if necessary).

11. Have you or any present partner(s) or officer(s) **been debarred, or otherwise disqualified, from receiving or participating in federal contracts or federally approved subcontracts or from any type of federal financial or nonfinancial assistance or benefits?** No If yes, please explain the facts surrounding such debarment in detail by identifying the project giving rise to debarment, the action date and termination date of debarment, and the cause(s) for debarment (use attachments for additional debarments if necessary).

12. **Bank Reference.**

NAME OF BANK: First National Bank of Texas

BANK OFFICER: Matt Sudderth PHONE: 817-658-4968

MAILING ADDRESS: 2880 Fort Worth Highway Hudson Oaks, TX 76087

FAX: _____

NAME OF BANK: _____

BANK OFFICER: _____ PHONE: _____

MAILING ADDRESS: _____

FAX: _____

13. Municipality References

NAME OF CITY.: See Attached

CONTACT PERSON: _____ **TITLE:** _____

PHONE: _____ **FAX:** _____

MAILING ADDRESS: _____

NAME OF CITY.: _____

CONTACT PERSON: _____ **TITLE:** _____

PHONE: _____ **FAX:** _____

MAILING ADDRESS: _____

NAME OF CITY.: _____

CONTACT PERSON: _____ **TITLE:** _____

PHONE: _____ **FAX:** _____

MAILING ADDRESS: _____

14. Other credit references

NAME OF REFERENCE: _____

CONTACT PERSON: _____ **TITLE:** _____

PHONE: _____ **FAX:** _____

MAILING ADDRESS: _____

ACKNOWLEDGEMENT
(Use this form if the Contractor is a corporation)

THE STATE OF TEXAS §
COUNTY OF Wise §

I certify that my responses and the information provided are true and correct to the best of my personal knowledge and belief and that I have made no willful misrepresentations in this Statement of Qualifications and Experience ("Statement"), nor have I withheld any relevant information in my statements and answers to questions. I am aware that any information given by me in this Statement may be investigated and I hereby give my full permission for any such investigation and I fully acknowledge that any misrepresentations or omissions in my responses and information may cause my bid to be rejected.

M-Co Construction, Inc.,
a C Corporation,




By: M-Co Construction, Inc.
Name: Alford Main
Title: Secretary
Date Signed: 7-14-2021

THE STATE OF TEXAS §
COUNTY OF Wise §

This instrument was acknowledged before me on the 14 day of July, 2021, by Alford Main, in his capacity as Secretary of M-Co Construction, Inc., a C Corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same on behalf of and as the act of the corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE 14th DAY OF July, 2021.


Notary Public Wise County, Texas
My commission expires 2024



Bond No. PH4376

BID BOND

STATE OF TEXAS)
)
COUNTY OF DENTON)

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____
M-Co Construction, Inc., whose
address is 316 County Road 3672, Springtown, Texas 76082,
hereinafter called Principal, and Philadelphia Indemnity Insurance Company,
a corporation organized and existing under the laws of the State of Pennsylvania, and
fully licensed to transact business in the State of Texas, as Surety, are held and firmly bound
unto the Trophy Club Municipal Utility District No. 1 (the "District"), a municipal utility district
chartered by the State of Texas, hereinafter referred to as "Owner," in the penal sum of
\$ Five Percent of the Greatest Amount Bid (5%GAB) as
the proper measure of liquidated damages arising out of or connected with the submission of a
Proposal for the construction of a public work project, in lawful money of the United States, to
be paid in DENTON County, Texas, for the payment of which sum well and truly to be made,
we bind ourselves, our heirs, executors, administrators and successors jointly and severally,
firmly by these presents. The condition of the above obligation is such that whereas the
Principal has submitted to Owner a certain Proposal, attached hereto and hereby made a part
hereof, to enter into a contract in writing, for the construction of "**TROPHY CLUB
MUNICIPAL UTILITY DISTRICT NO. 1 – WATER LINE INTERCONNECT**".

NOW, THEREFORE, if the Principal's Proposal shall be rejected or, in the alternative,
if the Principal's Proposal shall be accepted and the Principal shall execute and deliver a contract
in the form of the Contract attached hereto (properly completed in accordance with said
Proposal) and shall furnish performance, payment and maintenance bonds required by the
Contract Documents for the Project and provide proof of all required insurance coverages for the
Project and shall in all other respects perform the agreement created by the acceptance of said
Proposal, then this obligation shall be void, otherwise the same shall remain in full force and
affect; it being expressly understood and agreed that the liability of the Surety for any breach of
condition hereunder shall be in the face amount of this bond and forfeited as a proper measure of
liquidated damages.

PROVIDED FURTHER, that if any legal action were filed on this Bond, exclusive
venue shall lie in DENTON County, Texas.

AND PROVIDED FURTHER, the Surety, for value received, hereby stipulates and
agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by
an extension of the time within which the Owner may accept such Proposal; and said Surety does
hereby waive notice of any such extension.

The undersigned and designated agent is hereby designated by the Surety herein as the Resident Agent for service of process in Texas to whom any requisite notices may be delivered and on whom service of process may be had in matters arising out of such suretyship, as provided by Article 7.19-1 of the Insurance Code, Vernon's Annotated Civil Statutes of the State of Texas.

IN WITNESS WHEREOF, this instrument is executed in One(1) copies, each one of which shall be deemed an original, this, the 8th day of July, 2021.

PRINCIPAL: M-Co Construction, Inc.

BY: [Signature]
Name

ATTEST: [Signature]

TITLE: Secretary

SURETY: Philadelphia Indemnity Insurance Company

BY: [Signature]
Name Fred A. Theford IV

ATTEST: [Signature]

TITLE: Attorney-in-Fact

The Resident Agent of the Surety in Texas, for delivery of notice and service of the process is:

NAME: Contract Bond Agency
STREET ADDRESS: 2525 Rdigmar Blvd., Suite 320
CITY, STATE, ZIP: Fort Worth, Texas 76166

NOTE: If Resident Agent is not a corporation, give a person's name.

IMPORTANT – Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Texas.

PHILADELPHIA INDEMNITY INSURANCE COMPANY PH4376
One Bala Plaza, Suite 100
Bala Cynwyd, PA 19004-0950

Power of Attorney

KNOW ALL PERSONS BY THESE PRESENTS: That PHILADELPHIA INDEMNITY INSURANCE COMPANY (the Company), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby constitute and appoint Jared Young, Fred A. Thetford, Jr., Tobin Tucker, Tom Young, Diane Brown, Fred A. Thetford IV and/or Fred A. Thetford, III of Contract Bond Agency, LLC, its true and lawful Attorney-in-fact with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business and to bind the Company thereby, in an amount not to exceed \$50,000,000.

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of PHILADELPHIA INDEMNITY INSURANCE COMPANY on the 14th of November, 2016.

RESOLVED: That the Board of Directors hereby authorizes the President or any Vice President of the Company: (1) Appoint Attorney(s) in Fact and authorize the Attorney(s) in Fact to execute on behalf of the Company bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof and to attach the seal of the Company thereto; and (2) to remove, at any time, any such Attorney-in-Fact and revoke the authority given. And, be it

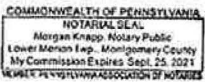
FURTHER RESOLVED: That the signatures of such officers and the seal of the Company may be affixed to any such Power of Attorney or certificate relating thereto by facsimile, and any such Power of Attorney so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

IN TESTIMONY WHEREOF, PHILADELPHIA INDEMNITY INSURANCE COMPANY HAS CAUSED THIS INSTRUMENT TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY ITS AUTHORIZED OFFICE THIS 27TH DAY OF OCTOBER, 2017.



Robert D. O'Leary Jr., President & CEO
Philadelphia Indemnity Insurance Company

On this 27th day of October, 2017, before me came the individual who executed the preceding instrument, to me personally known, and being by me duly sworn said that he is the therein described and authorized officer of the PHILADELPHIA INDEMNITY INSURANCE COMPANY; that the seal affixed to said instrument is the Corporate seal of said Company; that the said Corporate Seal and his signature were duly affixed.



(Notary Seal)

Notary Public: Morgan Knapp
residing at: Bala Cynwyd, PA
My commission expires: September 25, 2021

I, Edward Sayago, Corporate Secretary of PHILADELPHIA INDEMNITY INSURANCE COMPANY, do hereby certify that the foregoing resolution of the Board of Directors and the Power of Attorney issued pursuant thereto on the 27th day of October, 2017 are true and correct and are still in full force and effect. I do further certify that Robert D. O'Leary Jr., who executed the Power of Attorney as President, was on the date of execution of the attached Power of Attorney the duly elected President of PHILADELPHIA INDEMNITY INSURANCE COMPANY.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 8th day of July, 2021



Edward Sayago, Corporate Secretary
PHILADELPHIA INDEMNITY INSURANCE COMPANY

IMPORTANT NOTICE

To obtain information or make a complaint:
You may call the Surety's toll free telephone
number for information or to make a
complaint at:

1-877-438-7459

You may also write Philadelphia Indemnity
Insurance Company at:

One Bala Plaza, Suite 100
Bala Cynwyd, PA 19004
Attention: Senior Vice President and
Director of Surety

You may contact the Texas Department of
Insurance to obtain information on
companies, coverage, rights or complaints
at:

1-800-252-3439.

You may write the Texas Department of
Insurance at:

P.O. Box 149104
Austin, TX 78714-9104
Fax# 512-475-1771
Web: <http://www.tdi.state.tx.us>
Email: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIM DISPUTES: Should
you have a dispute concerning your
premium or about a claim, you should
contact the Surety first. If the dispute is not
resolved, you may contact the Texas
Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY:
This notice is for information only and does
not become a part or condition of the
attached document.

ADVISO IMPORTANTE

Para obtener informacion o para someter una
queja: Usted puede llamar al numero de
telefono gratis de para informacion o para
someter una queja al:

1-877-438-7459

Usted tambien puede escribir a Philadelphia
Indemnity Insurance Company at:

One Bala Plaza, Suite 100
Bala Cynwyd, PA 19004
Attention: Senior Vice President and
Director of Surety

Puede comunicarse con el Departamento de
Seguros de Texas para obtener informacion
acerca de companias, coberturas, derechos
o quejas al:

1-800-252-3439

Puede escribir al Departamento de Seguros
de Texas:

P.O. Box 149104
Austin, TX 78714-9104
Fax# 512-475-1771
Web: <http://www.tdi.state.tx.us>
Email: ConsumerProtection@tdi.state.tx.us

**DISPUTAS SOBRE PRIMAS O
RECLAMOS:** Si tiene una disputa
concerniente a su prima o a un reclamo,
debe comunicarse con el Surety primero. Si
no se resuelve la disputa, puede entonces
comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA: Este
aviso es solo para proposito de informacion
y no se convierte en parte o condicion del
documento adjunto.

M-Co Construction, Inc.

Work History

CURRENT WORK REFERENCES:

Project Name: *City of Duncanville, TX – Daniieldale Rd.*

Project Description: *SD-. 3,00' of 18" – 60", SS-. 8,000' of 6" - 12", WTR – 8,000 12" – 6" and 8,00' of 16" – 18"*

Completion Date: *Current*

Owner/Agency: *City of Duncanville, PO Box 380280, Duncanville, TX 76138*

Contract Price: *\$2,979,440.50*

Contact Person: *General Contractor-Pavecon Phone: 972-263-3323*

Project Name: *Monetary St, City of Carrollton, TX*

Project Description: *SD- Approx 280' of 18" – 30" RCP CLIII" – Approx. 1,450' of 6" -12" Waterline*

Completion Date: *Current*

Owner/Agency: *City of Carrollton, TX, 2711 Nimitz, Carrollton, TX 75007*

Contract Price: *\$347,919.00*

Contact Person: *General Contractor-Pavecon Phone: 972-263-3223*

Project Name: *City of Richardson, Main Street Reconstruction*

Project Description: *SD- 148' 4x3, 345' 5x3, 330' 5x5, 770' 7x6, 1,255' 8x7, 918' 18" – 48" RCP, Water- 2,571' 8" – 16" PVC DR-14, SS – 748' 8" – 12" C900 DR-25*

Completion Date: *Current*

Owner/Agency: *City of Richardson, 411 W. Arapaho Rd., Ste. 204, Richardson, TX 75080*

Contract Price: *\$4,251,365.40*

Contact Person: *General Contractor-Rebcon Phone: 972-444-8230*

COMPLETED WORK REFERENCES:

Project Name: *City of Arlington, Abram Street Phase 1 & 2*

Project Description: *Water- 6,820 LF 6" - 12", SD – 4,704 LF 18" – 30" RCP CL IV, SS – 2,370 LF 6" – 12" SDR26*

Completion Date: *Completed 02/2020*

Owner/Agency: *City of Arlington, 101 W. Abram, Arlington, TX 76010*

Contract Price: *\$3,203,082.64*

Contact Person: *General Contractor-Rebcon Phone: 972-444-8230*

Project Name: *Gus Thomasson Road Paving, Utility, & Aesthetics Improvements*

Project Description: *Water- 3,862 LF 6" to 24", SD – 275' 5x4, 899' 6x4, 631' 7x3, 4,732 LF 18" – 42", SS – 917 LF 6"*

Completion Date: *Completed 03/2020*

Owner/Agency: *City of Mesquite, Texas, 1515 N. Galloway, Mesquite, TX 75149*

Contract Price: *3,453,998.75*

Contact Person: *General Contractor-Rebcon Phone: 972-444-8230*

P. O. Box 489
Springtown, Texas 76082
Toll Free Phone# 1-877-644-4892 Toll Free Fax # 1-877-248-4892

STATEMENT OF SUBCONTRACTOR'S QUALIFICATIONS AND EXPERIENCE

SUBCONTRACTOR C. Green Scaping, LP

Note: Demonstrate a minimum of three years experience for each subcontractor the Bidding Contractor intends to use on the Project (use attachments for additional subcontractors if necessary).

NAME OF PROJECT: Hwy 10 Landscape Enhancements - TXDOT Funded

OWNER: City of Hurst

POINT OF CONTACT: Eric Starnes **PHONE:** 817-788-7218

GENERAL CONTRACTOR: C. Green Scaping, LP

POINT OF CONTACT: Stacy Geigenmiller **PHONE:** 817-577-9299

TOTAL CONTRACT COST: \$ 360,000 +/- **COMPLETION DATE:** March 2018

DESCRIPTION: Median landscape, excavation, irrigation, concrete mow strips, bores

Number Work Days Allowed: 170 **Number Work Days Required:** 180

Extra Days Granted: 15 **Amount Liquidated Damages Assessed, if any:** 0.00

NAME OF PROJECT: CCA - New Baseball Field, Weight Room, and Concession Stand

OWNER: Covenant Christian Academy

POINT OF CONTACT: Steve Turner **PHONE:** 817-281-4333 ext. 117

GENERAL CONTRACTOR: C. Green Scaping, LP

POINT OF CONTACT: Stacy Geigenmiller **PHONE:** 817-577-9299

TOTAL CONTRACT COST: \$ 4.6 million +/- **COMPLETION DATE:** Jan 2020

DESCRIPTION: New construction of baseball field including grading, concrete, fence work, dugouts, retaining walls, playground, landscape, irrigation, grass establishment, masonry, concession building

Number Work Days Allowed: N/A **Number Work Days Required:** N/A

Extra Days Granted: N/A **Amount Liquidated Damages Assessed, if any:** 0.00

NAME OF PROJECT: Legends Baseball Field, The Parks at Texas Star Phase 5

OWNER: City of Euless

POINT OF CONTACT: Ray McDonald **PHONE:** 817-685-1669

GENERAL CONTRACTOR: C. Green Scaping, LP

POINT OF CONTACT: Stacy Geigenmiller **PHONE:** 817-577-9299

TOTAL CONTRACT COST: \$ 1.6 million +/- **COMPLETION DATE:** July 2017

DESCRIPTION: New baseball complex, work consisted of concrete flatwork, playing field surface, fencing, site amenities, shade units, landscape and irrigation

Number Work Days Allowed: N/A **Number Work Days Required:** N/A

Extra Days Granted: N/A **Amount Liquidated Damages Assessed, if any:** 0.00

ORDER NO. 2021-0727A

**ORDER DECLARING PROPERTY SURPLUS AND AUTHORIZING
DISPOSITION THEREOF**

WHEREAS, Trophy Club Municipal Utility District No. 1 (the "District") is a conservation and reclamation district, a body corporate and politic and governmental agency of the State of Texas, created under Article XVI, Sec. 59 of the Texas Constitution by order of the Texas Water Commission, now the Texas Commission on Environmental Quality ("TCEQ"), and the District operates under Chapters 49 and 54 of the Texas Water Code, as amended;

WHEREAS, Section 49.226 of the Texas Water Code provides that any personal property valued at more than \$300 which is found by the board to be surplus and is not needed by the district may be sold under order of the board either by public or private sale;

WHEREAS, the District owns that certain property more particularly described in **Exhibit "A"** attached hereto, which property is surplus and no longer used, useful or needed by the District for its operations (the "Property"); and

WHEREAS, the Board of Directors desires to declare the Property to be surplus and not needed by the District and further desires to authorize the disposal thereof.

**NOW, THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS
OF TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1 THAT:**

Section 1. The facts and recitations in the preamble of this Order are hereby found and declared to be true and correct and are incorporated by reference herein and expressly made a part hereof, as if copied verbatim.

Section 2. The Board of Directors of the District hereby finds and declares that the Property is surplus and not needed by the District.

Section 3. The Board of Directors hereby orders and directs that the Property be disposed by public sale.

Section 4. The General Manager is hereby authorized to take any and all actions necessary to effectuate this Order.

Section 5. Upon adoption of this Order, an original Order shall be filed in the permanent records of the District.

PASSED AND APPROVED this 27th day of July 2021.

Steve Flynn, President

Kelly Castonguay, Secretary/Treasurer

(SEAL)

Laurie Slaght, District Secretary

Exhibit “A”
Surplus Property

Old Valves

Air Conditioning Unit

Welder

Tank

Meters

Hydrants

Scrap Metal

Parts Washer

Capital Project & GASB Balances 6/30/2021

Fund 135 General Fund											
Project	Non Spendable	FY Adopted	Original Assigned	Carry Over Assigned	FY21 Additions	FY21 Amendments	Total Assigned	Status	Expenses FY21	Total Remaining	JE Transaction
Assets not in spendable form (Prepays)	\$ 3,486.00										
Capital Projects Fund 135:											
Water											
Valve Replacement		Yearly	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ -	\$ 100,000.00	Project Open- Expenses Remaining	\$ 74,534.71	\$ 25,465.29	\$ (74,534.71)
Water Line Replacement		Yearly	\$ 500,000.00	\$ 480,650.00	\$ 500,000.00	\$ (480,650.00)	\$ 500,000.00	Adjust Funding to Water line Project	\$ -	\$ 500,000.00	\$ -
Sundance Ct/Meadowbrook Ln (Town)		2018	\$ 169,000.00	\$ 49,579.40	\$ -	\$ -	\$ 49,579.40	Project Open- Expenses Remaining	\$ 15,364.40	\$ 34,215.00	\$ (15,364.40)
Chimney Rock & Carnoustie Water Line		2020	\$ -	\$ -	\$ -	\$ 480,650.00	\$ 480,650.00	New Water Line Replacement Allocation	\$ 401,593.09	\$ 79,056.91	\$ (401,593.09)
Fencing		2020	\$ 10,000.00	\$ 10,000.00	\$ 15,000.00	\$ -	\$ 25,000.00	Carry Over	\$ -	\$ 25,000.00	\$ -
RRA/ERP		2021	\$ 75,000.00	\$ -	\$ 75,000.00	\$ -	\$ 75,000.00	Project Open- Expenses Remaining	\$ 27,100.00	\$ 47,900.00	\$ (27,100.00)
Engineer Master Plan of Improvements		2021	\$ 100,000.00	\$ -	\$ 100,000.00	\$ -	\$ 100,000.00	Project Open- Expenses Remaining	\$ 67,042.50	\$ 32,957.50	\$ (67,042.50)
Wastewater											
Legal/WWTP		2018	\$ 175,000.00	\$ 218,040.81	\$ 150,000.00	\$ (367,360.81)	\$ 680.00	Finished- Move remaining LS #1 Rehab	\$ 680.00	\$ -	\$ (680.00)
LS #1 Upgrade/Rehabilitation		2019	\$ 30,000.00	\$ 65,272.92	\$ -	\$ 367,360.81	\$ 432,633.73	Carry Over- Added WWTP Litigation Surplus	\$ -	\$ 432,633.73	\$ -
LS Upgrades (Lights, Control Panels, Quick Connects)		2019	\$ 75,000.00	\$ 63,337.00	\$ -	\$ -	\$ 63,337.00	Project Open- Expenses Remaining	\$ 23,790.00	\$ 39,547.00	\$ (23,790.00)
LS Pumps		2020	\$ 20,000.00	\$ 12,443.60	\$ -	\$ -	\$ 12,443.60	Project Open- Expenses Remaining	\$ 8,260.00	\$ 4,183.60	\$ (8,260.00)
Telemetry Upgrades		2020	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -	\$ 30,000.00	Carry Over	\$ -	\$ 30,000.00	\$ -
Lift Station Fencing		2020	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ -	\$ 10,000.00	Carry Over	\$ -	\$ 10,000.00	\$ -
Manhole Rehab and Replacement		2020	\$ 22,500.00	\$ 22,500.00	\$ -	\$ -	\$ 22,500.00	Project Open- Expenses Remaining	\$ 15,848.00	\$ 6,652.00	\$ (15,848.00)
Paving Road and Driveway WWTP		2020	\$ 125,000.00	\$ 125,000.00	\$ -	\$ -	\$ 125,000.00	Carry Over	\$ -	\$ 125,000.00	\$ -
Aeration Pump for MBR's		2021	\$ 30,000.00	\$ -	\$ 30,000.00	\$ -	\$ 30,000.00	Carry Over	\$ -	\$ 30,000.00	\$ -
WWTP Fencing Replacement		2021	\$ 50,000.00	\$ -	\$ 50,000.00	\$ -	\$ 50,000.00	Project Open- Expenses Remaining	\$ 49,478.00	\$ 522.00	\$ (49,478.00)
Engineer Master Plan of Improvements		2021	\$ 100,000.00	\$ -	\$ 100,000.00	\$ -	\$ 100,000.00	Project Open- Expenses Remaining	\$ 47,162.50	\$ 52,837.50	\$ (47,162.50)
Return Pump- Mixer		2021	\$ -	\$ -	\$ -	\$ 7,919.52	\$ 7,919.52	Finished- Amend Funding from M&R	\$ 7,919.52	\$ -	\$ (7,919.52)
Admin											
MUD Boundaries		2019	\$ 35,000.00	\$ 11,337.46	\$ -	\$ (11,337.46)	\$ -	Finished- Amend remaining to Admin M&R	\$ -	\$ -	\$ (11,337.46)
Board Room Upgrades		2020	\$ 100,000.00	\$ 48,668.08	\$ -	\$ (23,703.37)	\$ 24,964.71	Project Open- Amend surplus to Admin M&R	\$ 23,869.01	\$ 1,095.70	\$ (47,572.38)
CMMS- Elements		2021	\$ 50,000.00	\$ -	\$ 50,000.00	\$ -	\$ 50,000.00	Project Open- Expenses Remaining	\$ 46,825.00	\$ 3,175.00	\$ (46,825.00)
Website Rebuild		2021	\$ 35,000.00	\$ -	\$ 35,000.00	\$ -	\$ 35,000.00	Project Open- Expenses Remaining	\$ 17,125.00	\$ 17,875.00	\$ (17,125.00)
Pavement and Driveway Repair		2021	\$ 20,000.00	\$ -	\$ 20,000.00	\$ -	\$ 20,000.00	Carry Over	\$ -	\$ 20,000.00	\$ -
Fleet Replacement		2021	\$ 33,000.00	\$ -	\$ 33,000.00	\$ (33,000.00)	\$ -	Closed Out- Amend total to Admin M&R	\$ -	\$ -	\$ (33,000.00)
Total	\$ 3,486.00			\$ 1,191,829.27	\$ 1,213,000.00		\$ 2,344,707.96		\$ 826,591.73	\$ 1,518,116.23	\$ (894,632.56)
GASB Fund 137:											
				09/30 Balance	10/01 Additions	FY Amendments		Status	Expenses FY21	Year End Balance	Assign/Unassign
GASB Replacement-Town Elevated Tank			\$ 270,000.00	\$ 45,000.00					\$ -	\$ 315,000.00	JE
GASB Replacement-Water			\$ 430,899.00	\$ 30,000.00					\$ -	\$ 460,899.00	
GASB Replacement-Sewer			\$ 528,703.58	\$ 30,000.00					\$ -	\$ 558,703.58	
GASB Replacement- Sewer MBR's			\$ 100,000.00	\$ 100,000.00					\$ -	\$ 200,000.00	
GASB Replacement-Fire Truck			\$ 391,461.39	\$ 81,420.00					\$ -	\$ 472,881.39	
Total			\$ 1,721,063.97	\$ 286,420.00	\$ -				\$ -	\$ 2,007,483.97	

RESOLUTION NO. 2021-0727A

**A RESOLUTION OF TROPHY CLUB MUNICIPAL UTILITY
DISTRICT NO. 1 TO AMEND FISCAL YEAR 2021 BUDGET**

WHEREAS, Trophy Club Municipal Utility District No. 1 (the “District”) is a conservation and reclamation district, and a political subdivision of the State of Texas, created under Article XVI, Sec. 59 of the Texas Constitution by order of the Texas Water Commission, now the Texas Commission on Environmental Quality (“TCEQ”), and the District operates under Chapters 49 and 54 of the Texas Water Code, as amended;

WHEREAS, Title 30, Texas Administrative Code, Section 293.97(b), provides that prior to the start of a fiscal year, the governing board of each active district shall adopt an operating budget for the upcoming fiscal year. The rule further provides that the adopted budget and any subsequent amendments thereto shall be passed and approved by a resolution of the governing board and shall be made a part of the governing board minutes.

WHEREAS, The Board of Directors of the District previously approved a resolution adopting the 2021 fiscal year budget for the District on September 21, 2020; and

WHEREAS, The Board of Directors now desires to amend its 2021 fiscal year budget.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF
TROPHY CLUB MUNICIPAL UTILITY DISTRICT NO. 1 THAT:**

Section 1. The Board of Directors hereby amends the fiscal year budget for the 2021 Fiscal Year. A copy of the budget amendment is attached to this Resolution. The budget amendment is hereby approved for all purposes.

Section 2. A copy of this Resolution amending the fiscal year 2021 budget shall be attached to the meeting minutes of July 27, 2021.

Section 3. The President and Secretary of the Board are hereby authorized and directed to execute this Resolution. After this Resolution is executed, an original Resolution shall be filed in the permanent records of the District.

RESOLVED, PASSED AND APPROVED this 27th day of July 2021.

Steve Flynn, President
Board of Directors

ATTEST:

Kelly Castonguay, Secretary
Board of Directors

EXHIBIT “A”

(Amended Budget)

THIS MASTER AGREEMENT FOR PROFESSIONAL SERVICES (“Agreement”) is made as of the Effective Date by and between the **Trophy Club Municipal Utility District No. 1** (hereinafter referred to as “**Owner**”), and **Garver, LLC** (hereinafter referred to as “**Garver**”). Owner and Garver may individually be referred to herein after as a “**Party**” and/or “**Parties**” respectively.

RECITALS

WHEREAS, Owner is in need of certain professional Services as further set forth in the applicable Work Order.

WHEREAS, Garver will provide professional Services as further described herein.

NOW THEREFORE, in consideration of the mutual covenants herein contained and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Parties agree as follows:

1. DEFINITIONS GARVER

In addition to other defined terms used throughout this Agreement, when used herein, the following capitalized terms have the meaning specified in this Section

“**Effective Date**” means the date last set forth in the signature lines below.

“**Damages**” means any and all damages, liabilities, or costs (including reasonable attorneys’ fees recoverable under applicable law).

“**Hazardous Materials**” means any substance that, under applicable law, is considered to be hazardous or toxic or is or may be required to be remediated, including: (i) any petroleum or petroleum products, radioactive materials, asbestos in any form that is or could become friable, (ii) any chemicals, materials or substances which are now or hereafter become defined as or included in the definition of “hazardous substances,” “hazardous wastes,” “hazardous materials,” “extremely hazardous wastes,” “restricted hazardous wastes,” “toxic substances,” “toxic pollutants,” or any words of similar import pursuant to applicable law; or (iii) any other chemical, material, substance or waste, exposure to which is now or hereafter prohibited, limited or regulated by any governmental instrumentality, or which may be the subject of liability for damages, costs or remediation.

“**Personnel**” means affiliates, directors, officers, partners, members, employees, and agents.

“**Work Order**” means a document executed by both Parties reflecting Owner’s request for professional Services in the form of Exhibit A.

2. SCOPE OF SERVICES

2.1. Services. Owner hereby engages Garver to perform the scope of service requested by Owner under a Work Order(s) (the “**Services**”). Execution of the applicable Work Order by Owner constitutes Owner’s written authorization to proceed with the Services set forth in such Work Order. In consideration for such Services, Owner agrees to pay Garver in accordance with Section 3 below.

3. PAYMENT

3.1. Fee. For the Services described under Section 2.1, Owner will pay Garver in accordance with this Section 3 and the applicable Work Order. Owner represents that funding sources

necessary to pay Garver in accordance with the terms of this Agreement will be in place prior to execution of the applicable Work Order.

3.2. Invoicing Statements. Except as otherwise provided in a Work Order, Garver shall invoice Owner for completed services on a monthly basis. Such invoice shall include supporting documentation reasonably necessary for Owner to know with reasonable certainty the proportion of Services accomplished.

3.3. Payment.

3.3.1. Due Date. Owner shall pay Garver all undisputed amounts thirty (30) days after receipt of an invoice. Owner shall provide notice in writing of any portion of an invoice that is disputed in good faith within fifteen (15) days of receipt of an invoice. Garver shall promptly work to resolve any and all items identified by Owner relating to the disputed invoice. All disputed portions shall be paid promptly upon resolution of the underlying dispute.

3.3.2. If any undisputed payment due Garver under this Agreement is not received within forty-five (45) days from the date of an invoice, Garver may elect to suspend Services under this Agreement without penalty.

3.3.3. Payments due and owing that are not received within thirty (30) days of an invoice date will be subject to interest at the lesser of a one percent (1%) monthly interest charge (compounded) or the highest interest rate permitted by applicable law.

4. AMENDMENTS

4.1. Amendments. The parties may agree upon an equitable adjustment in the cost and/or schedule for circumstances outside the reasonable control of Garver, including modifications in the scope of Services, applicable law, codes, or standards after the Effective Date ("Amendment"). As soon as reasonably possible, Garver shall forward a formal Amendment to Owner with backup supporting the Amendment. All Amendments should include, to the extent known and available under the circumstances, documentation sufficient to enable Owner to determine: (i) the factors necessitating the possibility of a change; (ii) the impact which the change is likely to have on the cost to perform the Services; and (iii) the impact which the change is likely to have on the schedule. All Amendments shall be effective only after being signed by the designated representatives of both Parties. Garver shall have no obligation to perform any additional work created by such Amendment until a mutually agreeable Amendment is executed by both Parties.

5. OWNER'S RESPONSIBILITIES

5.1. Owner's responsibilities shall include the following:

5.1.1. Those responsibilities set forth in the applicable Task Order.

5.1.2. Pay Garver in accordance with Section 3 and the applicable Work Order.

5.1.3. Owner shall be responsible for all requirements and instructions that it furnishes to Garver pursuant to this Agreement, and for the accuracy and completeness of all programs, reports, data, and other information furnished by Owner to Garver pursuant to this Agreement. Garver may use and rely upon such requirements, programs, instructions, reports, data, and information in performing or furnishing services under this

Agreement, subject to any express limitations or reservations applicable to the furnished items as further set forth in the applicable Work Order.

- 5.1.4. Owner shall give prompt written notice to Garver whenever Owner observes or otherwise becomes aware of the presence at the project site of any Hazardous Materials or any relevant, material defect, or nonconformance in: (i) the Services; (ii) the performance by any contractor providing or otherwise performing construction services related to the Work Order; or (iii) Owner's performance of its responsibilities under this Agreement.
- 5.1.5. Owner agrees that Garver may include "Garver, LLC" as an indemnified party under the contractor's indemnity obligations included in the construction contract documents, if any.
- 5.1.6. Owner will not directly or indirectly solicit any of Garver's Personnel during performance of this Agreement and for a period of one (1) year beyond completion of this Agreement.

6. GENERAL

6.1. Standards of Performance.

- 6.1.1. Industry Practice. Garver shall perform any and all Services required herein in accordance with generally accepted practices and standards employed by the applicable United States professional services industries as of the Effective Date practicing under similar conditions and locale. Such generally accepted practices and standards are not intended to be limited to the optimum practices, methods, techniques, or standards to the exclusion of all others, but rather to a spectrum of reasonable and prudent practices employed by the United States professional services industry.
- 6.1.2. Owner shall not be responsible for discovering deficiencies in the technical accuracy of Garver's services. Garver shall promptly correct deficiencies in technical accuracy without the need for an Amendment unless such corrective action is directly attributable to deficiencies in Owner-furnished information.
- 6.1.3. On-site Services. Garver and its representatives shall comply with Owner's and its separate contractor's project specific safety programs, which have been provided to Garver in writing in advance of any site visits.
- 6.1.4. Relied Upon Information: Garver may use or rely upon design elements and information ordinarily or customarily furnished by others including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
- 6.1.5. Aside from Garver's direct subconsultants, Garver shall not at any time supervise, direct, control, or have authority over any contractor's work, nor shall Garver have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any such contractor, or the safety precautions and programs incident thereto, for security or safety at the project site, nor for any failure of a contractor to comply with laws and regulations applicable to that contractor's services. Garver shall not be responsible for the acts or omissions of any contractor for whom it does not have a direct contract. Garver neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform its work in accordance with the construction contract documents applicable to the contractor's work, even when Garver is performing construction phase services.
- 6.1.6. Garver is not required to provide and does not have any responsibility for surety bonding or insurance-related advice, recommendations, counseling, research, or enforcement of

construction insurance or surety bonding requirements. Garver's Services expressly do not include providing advice pertaining to insurance, legal, finance, surety-bonding, or similar services. In no event is Garver acting as a "municipal advisor" as set forth in the Dodd-Frank Wall Street Reform and Consumer Protection Act (2010) or the municipal advisor registration rules issued by the Securities and Exchange Commission.

6.2. Instruments of Service.

- 6.2.1. Deliverables. All reports, specifications, record drawings, models, data, and all other information provided by Garver or its subconsultants, which is required to be delivered to Owner under the applicable Work Order (the "**Deliverables**"), shall become the property of Owner subject to the terms and conditions stated herein.
- 6.2.2. Electronic Media. Owner hereby agrees that all electronic media, including CADD files ("**Electronic Media**"), are tools used solely for the preparation of the Deliverables. Upon Owner's written request, Garver will furnish to Owner copies of Electronic Media to the extent included as part of the Services. In the event of an inconsistency or conflict in the content between the Deliverables and the Electronic Media, however, the Deliverables shall take precedence in all respects. Electronic Media is furnished without guarantee of compatibility with the Owner's software or hardware. Because Electronic Media can be altered, either intentionally or unintentionally, by transcription, machine error, environmental factors, or by operators, it is agreed that, to the extent permitted by applicable law, Owner shall hold Garver, Garver's subconsultants, and their Personnel free from liability arising out of changes or modifications to the Electronic Media form in Owner's possession. Garver's sole responsibility and liability for Electronic Media is to furnish a replacement for any non-functioning Electronic Media for reasons solely attributable to Garver within thirty (30) days after delivery to Owner.
- 6.2.3. Property Rights. All property rights of a Party, including copyright, patent, and reuse ("**Intellectual Property**"), shall remain the Intellectual Property of that Party. Garver shall obtain all necessary Intellectual Property from any necessary third parties in order to execute the Services. Any Intellectual Property of Garver or any third party embedded in the Deliverables shall remain so embedded and may not be separated therefrom.
- 6.2.4. License. Upon Owner fulfilling its payment obligations under this Agreement, Garver hereby grants Owner a perpetual license to use the Intellectual Property, but only for its intended use. Use of such Intellectual Property for modification, extension, or expansion of the project or on any other project, unless under the direction of Garver, shall be without liability to Garver and Garver's subconsultants.

6.3. Opinions of Cost.

- 6.3.1. Since Garver has no control over: (i) the cost of labor, materials, equipment, or services furnished by others; (ii) the contractor or its subcontractor(s)' methods of determining prices; (iii) competitive bidding; (iv) market conditions; or (v) similar material factors, Garver's opinions of project costs or construction costs provided pursuant to the applicable Work Order, if any, are to be made on the basis of Garver's experience and qualifications and represent Garver's reasonable judgment as an experienced and qualified professional engineering firm, familiar with the construction industry. Garver cannot and does not guarantee that proposals, bids, or actual project or construction costs will not vary from estimates prepared by Garver.
- 6.3.2. Owner understands that the construction cost estimates developed by Garver do not establish a limit for the construction contract amount. If the actual amount of the low construction bid or resulting construction contract exceeds the construction budget

established by Owner, Garver will not be required to re-design the Services without additional compensation. In the event Owner requires greater assurances as to probable construction cost, then Owner agrees to obtain an independent cost estimate.

6.4. Underground Utilities. Except to the extent expressly included as part of the Services, Garver will not provide research regarding utilities or survey utilities located and marked by their owners. Furthermore, since many utility companies typically will not locate and mark their underground facilities prior to notice of excavation, Garver is not responsible for knowing whether underground utilities are present or knowing the exact location of such utilities for design and cost estimating purposes. In no event is Garver responsible for damage to underground utilities, unmarked or improperly marked, caused by geotechnical conditions, potholing, construction, or other contractors or subcontractors working under a subcontract to this Agreement.

6.5. Design without Construction Phase Services.

6.5.1. Garver shall be responsible only for those construction phase Services expressly set forth in a Work Order, if any. With the exception of such expressly required Services, Garver shall have no responsibility or liability for any additional construction phase services, including review and approval of payment applications, design, shop drawing review, or other obligations during construction. Owner assumes all responsibility for interpretation of the construction contract documents and for construction observation and supervision and waives any claims against Garver that may be in any way connected thereto.

6.5.2. If the Owner requests in writing that Garver provide any specific construction phase services or assistance with resolving disputes or other subcontractor related issues, and if Garver agrees to provide such services, then Garver shall be compensated for the work as an Amendment in accordance with Sections 4 and 10.2.

6.6. Hazardous Materials. Nothing in this Agreement shall be construed or interpreted as requiring Garver to assume any role in the identification, evaluation, treatment, storage, disposal, or transportation of any Hazardous Materials.

6.7. Confidentiality. Owner and Garver shall consider: (i) all information provided by the other Party that is marked as "Confidential Information" or "Proprietary Information" or identified as confidential pursuant to this Section 6.7 in writing promptly after being disclosed verbally; and (ii) all documents resulting from Garver's performance of Services to be Confidential Information. Except as legally required, Confidential Information shall not be discussed with or transmitted to any third parties, except on a "need to know basis" with equal or greater confidentiality protection or written consent of the disclosing Party. Confidential Information shall not include and nothing herein shall limit either Party's right to disclose any information provided hereunder which: (i) was or becomes generally available to the public, other than as a result of a disclosure by the receiving Party or its Personnel; (ii) was or becomes available to the receiving Party or its representatives on a non-confidential basis, provided that the source of the information is not bound by a confidentiality agreement or otherwise prohibited from transmitting such information by a contractual, legal, or fiduciary duty; (iii) was independently developed by the receiving Party without the use of any Confidential Information of the disclosing Party; or (iv) is required to be disclosed by applicable law or a court order. All confidentiality obligations hereunder shall expire three (3) years after completion of the Services.

7. INSURANCE

7.1. Insurance.

- 7.1.1. Garver shall procure and maintain insurance as set forth in Exhibit B until completion of the Service.
- 7.1.2. Garver shall name Owner as an additional insured on Garver's General Liability policy to the extent of Garver's indemnity obligations provided in Section 9 of this Agreement.
- 7.1.3. Upon request, Garver shall furnish Owner a certificate of insurance evidencing the insurance coverages required in Exhibit B.

8. DOCUMENTS

- 8.1. Audit. Garver will retain all pertinent records for a period of three (3) years beyond completion of the Services. Owner may have access to such records during normal business hours with three (3) business days advanced written notice. Garver shall provide copies of such records to Owner upon request. Owner shall provide payment for reasonable copying costs. In no event shall Owner be entitled to audit the makeup of lump sum or other fixed prices (e.g., agreed upon unit or hour rates).
- 8.2. Delivery. After completion of the Services, and prior to final payment, Garver shall deliver to the Owner all Deliverables required under the applicable Work Order.

9. INDEMNIFICATION / WAIVERS

9.1. Indemnification.

- 9.1.1. Garver Indemnity. Subject to the limitations of liability set forth in Section 9.2, Garver agrees to indemnify and hold Owner, and Owner's Personnel harmless from Damages due to bodily injury (including death) or third-party tangible property damage to the extent such Damages are caused by the negligent acts, errors, or omissions of Garver or any other party for whom Garver is legally liable, in the performance of the Services under this Agreement.

9.2. Waivers. Notwithstanding any other provision to the contrary, the Parties agree as follows:

- 9.2.1. THE PARTIES AGREE THAT ANY CLAIM OR SUIT FOR DAMAGES MADE OR FILED AGAINST THE OTHER PARTY WILL BE MADE OR FILED SOLELY AGAINST GARVER OR OWNER RESPECTIVELY, OR THEIR SUCCESSORS OR ASSIGNS, AND THAT NO PERSONNEL SHALL BE PERSONALLY LIABLE FOR DAMAGES UNDER ANY CIRCUMSTANCES.
- 9.2.2. MUTUAL WAIVER. TO THE FULLEST EXTENT PERMITTED BY LAW, NEITHER OWNER, GARVER, NOR THEIR RESPECTIVE PERSONNEL SHALL BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, OR EXEMPLARY DAMAGES, OR DAMAGES ARISING FROM OR IN CONNECTION WITH LOSS OF USE, LOSS OF REVENUE OR PROFIT (ACTUAL OR ANTICIPATED), LOSS BY REASON OF SHUTDOWN OR NON-OPERATION, INCREASED COST OF CONSTRUCTION, COST OF CAPITAL, COST OF REPLACEMENT POWER OR CUSTOMER CLAIMS, AND OWNER HEREBY RELEASES GARVER, AND GARVER RELEASES OWNER, FROM ANY SUCH LIABILITY.

9.2.3. NO OTHER WARRANTIES. NO OTHER WARRANTIES OR CAUSES OF ACTION OF ANY KIND, WHETHER STATUTORY, EXPRESS OR IMPLIED (INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE) SHALL APPLY. OWNER'S EXCLUSIVE REMEDIES AND GARVER'S ONLY OBLIGATIONS ARISING OUT OF OR IN CONNECTION WITH DEFECTIVE SERVICES (PATENT, LATENT OR OTHERWISE), WHETHER BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY), OR OTHERWISE, SHALL BE THOSE STATED IN THE AGREEMENT.

9.2.4. THE LIMITATIONS SET FORTH IN SECTION 9.2 APPLY REGARDLESS OF WHETHER THE CLAIM IS BASED IN CONTRACT, TORT, OR NEGLIGENCE INCLUDING GROSS NEGLIGENCE, STRICT LIABILITY, WARRANTY, INDEMNITY, ERROR AND OMISSION, OR ANY OTHER CAUSE WHATSOEVER.

10. DISPUTE RESOLUTION

10.1. Any controversy or claim ("**Dispute**") arising out of or relating to this Agreement or the breach thereof shall be resolved in accordance with the following:

10.1.1. Any Dispute that cannot be resolved by the project managers of Owner and Garver may, at the request of either Party, be referred to the senior management of each Party. If the senior management of the Parties cannot resolve the Dispute within thirty (30) days after such request for referral, then either Party may request mediation. If both Parties agree to mediation, it shall be scheduled at a mutually agreeable time and place with a mediator agreed to by the Parties. Should mediation fail, should either Party refuse to participate in mediation, or should the scheduling of mediation be impractical, either Party may file for arbitration in lieu of litigation.

10.1.2. Arbitration of the Dispute shall be administered by the American Arbitration Association ("AAA") in accordance with its Construction Industry Arbitration Rules. EACH PARTY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAWS, ANY AND ALL RIGHT TO TRIAL BY JURY. The arbitration shall be conducted by a single arbitrator, agreed to by the Parties. In no event may a demand for arbitration be made if the institution of legal or equitable proceedings based on such dispute is barred by the applicable statute of limitations.

10.1.3. The site of the arbitration shall be Texas. Each Party hereby consents to the jurisdiction of the federal and state courts within whose district the site of arbitration is located for purposes of enforcement of this arbitration provision, for provisional relief in aid of arbitration, and for enforcement of any award issued by the arbitrator.

10.1.4. To avoid multiple proceedings and the possibility of inconsistent results, either Party may seek to join third parties with an interest in the outcome of the arbitration or to consolidate arbitration under this Agreement with another arbitration. Within thirty (30) days of receiving written notice of such a joinder or consolidation, the other Party may object. In the event of such an objection, the arbitrator shall decide whether the third party may be joined and/or whether the arbitrations may be consolidated. The arbitrator shall consider whether any entity will suffer prejudice as a result of or denial of the proposed joinder or consolidation, whether the Parties may achieve complete relief in the absence of the proposed joinder or consolidation, and any other factors which the arbitrators conclude should factor on the decision.

10.1.5. The arbitrator shall have no authority to award punitive damages. Any award, order or judgment pursuant to the arbitration is final and may be entered and enforced in any court of competent jurisdiction.

10.1.6. The prevailing Party shall be entitled to recover its attorneys' fees, costs, and expenses, including arbitrator fees and costs and AAA fees and costs.

10.1.7. The foregoing arbitration provisions shall be final and binding, construed and enforced in accordance with the Federal Arbitration Act, notwithstanding the provisions of this Agreement specifying the application of other law. Pending resolution of any Dispute, unless the Agreement is otherwise terminated, Garver shall continue to perform the Services under this Agreement that are not the subject of the Dispute, and Owner shall continue to make all payments required under this Agreement that are not the subject of the Dispute.

10.1. Litigation Assistance. This Agreement does not include costs of Garver for required or requested assistance to support, prepare, document, bring, defend, or assist in litigation undertaken or defended by Owner, unless litigation assistance has been expressly included as part of Services. In the event Owner requests such services of Garver, this Agreement shall be amended in writing by both Owner and Garver to account for the additional services and resulting cost in accordance with Section 4.

11. TERMINATION

11.1. Termination for Convenience. Owner shall have the right at its sole discretion to terminate this Agreement for convenience at any time upon giving Garver ten (10) days' written notice. In the event of a termination for convenience, Garver shall bring any ongoing Services to an orderly cessation. Owner shall compensate Garver in accordance with the applicable Work Order for all Services performed and reasonable costs incurred by Garver on or before Garver's receipt of the termination notice, including all outstanding and unpaid invoices for which Owner is responsible for payment under this agreement.

11.2. Termination for Cause. This Agreement may be terminated by either Party in the event of failure by the other Party to perform any material obligation in accordance with the terms hereof. Prior to termination of this Agreement for cause, the terminating Party shall provide at least seven (7) business days written notice and a reasonable opportunity to cure to the non-performing Party. In all events of termination for cause due to an event of default by the Owner, Owner shall pay Garver for all Services properly performed prior to such termination in accordance with the terms, conditions and rates set forth in this Agreement.

11.3. Termination in the Event of Bankruptcy. Either Party may terminate this Agreement immediately upon notice to the other Party, and without incurring any liability, if the non-terminating Party has: (i) been adjudicated bankrupt; (ii) filed a voluntary petition in bankruptcy or had an involuntary petition filed against it in bankruptcy; (iii) made an assignment for the benefit of creditors; (iv) had a trustee or receiver appointed for it; (v) becomes insolvent; or (vi) any part of its property is put under receivership.

12. MISCELLANEOUS

12.1. Governing Law. This Agreement is governed by the laws of the State of Texas, without regard to its choice of law provisions.

12.2. Successors and Assigns. Owner and Garver each bind themselves and their successors, executors, administrators, and assigns of such other party, in respect to all covenants of this

Agreement; neither Owner nor Garver shall assign, sublet, or transfer their interest in this Agreement without the written consent of the other, which shall not be unreasonably withheld or delayed.

12.3. Independent Contractor. Garver is and at all times shall be deemed an independent contractor in the performance of the Services under this Agreement.

12.4. No Third-Party Beneficiaries. Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than Owner and Garver. This Agreement does not contemplate any third-party beneficiaries.

12.5. Entire Agreement. This Agreement constitutes the entire agreement between Owner and Garver and supersedes all prior written or oral understandings and shall be interpreted as having been drafted by both Parties. This Agreement may be amended, supplemented, or modified only in writing by and executed by both Parties.

12.6. Severance. The illegality, unenforceability, or occurrence of any other event rendering a portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of the Agreement. Any void provision of this Agreement shall be construed and enforced as if the Agreement did not contain the particular portion or provision held to be void.

12.7. Counterpart Execution. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together constitute one Agreement. Delivery of an executed counterpart of this Agreement by fax or transmitted electronically in legible form, shall be equally effective as delivery of a manually executed counterpart of this Agreement.

13. EXHIBITS

13.1. The following Exhibits are attached to and made a part of this Agreement:

- Exhibit A – Form of Work Order
- Exhibit B – Insurance
- Exhibit C – [Reserved]

Owner and Garver, by signing this Agreement, acknowledges that they have independently assured themselves and confirms that they individually have examined all Exhibits, and agrees that all of the aforesaid Exhibits shall be considered a part of this Agreement and agrees to be bound to the terms, provisions, and other requirements thereof, unless specifically excluded.

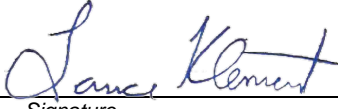
Acceptance of this proposed Agreement is indicated by an authorized agent of the Owner signing in the space provided below. Please return one signed original of this Agreement to Garver for our records.

IN WITNESS WHEREOF, Owner and Garver have executed this Agreement effective as of the date last written below.

Trophy Club Municipal Utility District No. 1

Garver, LLC

By: _____
Signature

By: 
Signature

Name: _____
Printed Name

Name: Lance Klement
Printed Name


Title: _____

Title: North Texas Water Team Leader

Date: _____

Date: June 17th, 2021

Attest: _____

Attest: 

**EXHIBIT A
(FORM OF WORK ORDER)**

**WORK ORDER NO. X
Trophy Club Municipal Utility District No. 1
Project No. X**

This WORK ORDER (“Work Order”) is made by and between the **Trophy Club Municipal Utility District No. 1** (hereinafter referred to as “Owner”) and **Garver, LLC**, (hereinafter referred to as “Garver”) in accordance with the provisions of the MASTER AGREEMENT FOR PROFESSIONAL SERVICES executed on [??/??/????] (the “Agreement”).

Under this Work Order, the Owner intends to engage Garver for **[Insert Project Title]**:

[Insert text here.]

Garver will provide professional services related to these improvements as described herein. Terms not defined herein shall have the meaning assigned to them in the Agreement.

1. SCOPE OF SERVICES

- 1.1. Garver shall provide the following Services:
 - 1.1.1. [Insert text here [or] in Appendix A as needed.]
- 1.2. In addition to those obligations set forth in the Agreement, Owner shall:
 - 1.2.1. [Insert text here]

2. PAYMENT

- 3. For the Services set forth above, Owner will pay Garver as follows: [Insert Text Here]

4. APPENDICES

- 4.1. The following Appendices are attached to and made a part of this Work Order:
- 4.2. Appendix A - Scope of Services
- 4.3. Appendix B – Fee Spreadsheet

This Work Order may be executed in two (2) or more counterparts each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

[Signature Page to Follow]

The effective date of this Work Order shall be the last date written below.

Trophy Club Municipal Utility District

GARVER, LLC

By: _____
Signature

By: _____
Signature

Name: _____
Printed Name

Name: _____
Printed Name

Title: _____

Title: _____

Date: _____

Date: _____

Attest: _____

Attest: _____

**EXHIBIT B
(INSURANCE)**

Pursuant to Section 7.1 of the Agreement, Garver shall maintain the following schedule of insurance until completion of the Services:

Worker's Compensation	Statutory Limit
Automobile Liability	
Combined Single Limit (Bodily Injury and Property Damage)	\$500,000
General Liability	
Each Occurrence	\$1,000,000
Aggregate	\$2,000,000
Professional Liability	
Each Claim Made	\$1,000,000
Annual Aggregate	\$2,000,000
Excess of Umbrella Liability	
Per Occurrence	\$1,000,000
General Aggregate	\$1,000,000

TC Meeting Spaces

Calendars

August 2021

- FS Conference Room
- FS Training Room
- PS Large Conference Room
- Svore Board Room

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
32	Aug 1, 2021	2	3	4	5	6	7
33	8	9	10	11	12	13	14
34	15	16 6:30pm Board of D	17	18	19	20	21
35	22	23	24	25	26	27	28
36	29	30	31	Sep 1	2	3	4