Emergency Preparedness Plan Template

For All Affected Utilities Except Fort Bend and Harris Counties

Assistance

If you need assistance with the EPP template, please fill out the **EPP Help Form at** www.tceq.texas.gov/goto/epp-help and TCEQ will contact you via email or phone to work with you.

General Instructions

- On page 1 complete "General Information" table, circle the option(s) chosen, answer the questions, and sign the
 certification.
- Complete sections I, II, read section III, in section IV complete the option(s) chosen that apply to your affected utility, and complete Section V as applicable to your affected utility (county judge and sheriff's office information are required).
- Attachments A explains the EPP submittal and distribution requirements, and attachments B D do not have to be filled out but are supplemental information to assist you in the event of an emergency.

General Information

Water System Name:	Beechwood WSC
PWS ID No. (if applicable):	2020014
District No. (if applicable):	11890
County:	Sabine
CCN No. (if applicable):	
Owner:	Member Owned
Prepared by:	Billy Manley and Bryan Walters
Preparer's Phone No.:	409-579-3926
Preparer's Email:	beech@windstream.net
Preparer's Mailing Address:	5137 Fairdale Rd, Hemphil TX 75948
Preparer Title:	Manager and operator
Preparer's Organization:	Beechwood WSC
Expected Completion Date for EPP Plan Implementation:	1/25/23

Option(s) Chosen:

Refer to Section III-ALTERNATE POWER OPTIONS OVERVIEW.

Circle <u>all</u> Option(s) that will provide emergency operations during extended power outages lasting more than 24 hours for this affected utility.

① 2A 2B 3A 3B 4 5 6 7 8A 8B 9 10A 10B 11 12 13 14

- 2. Short Explanation of Proposed Emergency Preparedness Plan (i.e., Using portable generator to power 2 out of 3 wells): Will power Building & broster pump in power outrose
- 3. Will this plan provide for 20 pounds per square inch (psi) of pressure to all your direct customers during a power outage lasting more than 24 hours caused by a natural disaster?
- 4. Is a timeline to implement the plan (TWC 13.1394(b)(2)(B)) provided as an attachment?

I certify, under penalty of law, that all the information provided herein is true and accurate to the best of my knowledge.

Signature: Billy Marley Title	Mangger	Date	3/28/2
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UPDATES TO EMERGENCY PREPAREDNESS PLAN (EPP)

The EPP is updated as changes occur such as dictated by personnel, phone numbers, water plant additions, modifications, and serving additional water systems.

Record updates below:

Last Updated By	Title	Purpose (page #s)	On (Date)	

SECTION I – INTRODUCTION

1. APPLICABILITY

This emergency preparedness plan template was developed for the operators and administrators of affected utilities to comply with the requirements for "affected utilities" in Texas Water Code, Section 13.1394 as required by Senate Bill 3 (SB 3) and to demonstrate the affected utility's ability to provide emergency operations during extended power outages lasting more than 24 hours.

An affected utility is a retail public utility, exempt utility, or provider or conveyer of potable or raw water service that furnishes water service to more than one customer, provides overnight accommodations, and is not an affected utility under Texas Water Code, Section 13.1395. An extended power outage means a power outage lasting more than 24 hours.

If you believe that you are NOT an affected utility please email PDWEPP@tceq.texas.gov to ensure that the requirements do not apply to the water system.

A. Describe Your Water System. Check all that apply.	
Residential Commercial Industrial Wholesale Institution	
B. Is This EPP For An 🔀 Existing or 🗌 Proposed Water System?	
2. CONTACT INFORMATION	
During any type of emergency, the following person(s) will be responsible for the water system (contact will be	Э
attempted in the order indicated):	

attempte	attempted in the order indicated):									
Name	Title in the Organization	E-mail	Office Phone Number	Cell Phone Number	Home Phone Number	Other Phone Number				
Billy Manle	ey Manager	Bm5541@yahoo.com	409-579- 3926	409-659- 8941						

	Organization		Phone Number	Number	Phone Number	Phone Number
Billy Manley	Manager	Bm5541@yahoo.com	409-579-	409-659-		
			3926	8941		
Bryan	Operator	Bryanandtara2001@gmail.com	409-579-	337-353-		
Walters			3926	2714		
Steve O	Operator	beech@windstream.net	409-579-	337-912-		
Rocca Jr			3962	7481		
Kipp Findley	Board Memeber	N/A		409-718-		
				1681		

3. Location of Maps

The maps are not required to be submitted to TCEQ for review of the EPP but should be available in case of an emergency to enable staff to locate valves, lines, and meters.

Where are your distribution system(s) map(s) located? On wall in office

4. Diagram of Water System

Submit a diagram of your drinking water system that shows all equipment (source(s), tank(s), pumps), treatment chemicals, and any open or closed interconnects with other water systems.

2.

Original Contract 2018

Wednesday, Dec. 12, 2018 Regular Monthly Meeting of South Sabine Water Supply Corporation

I, Glen Provost, move that ARTICLE VIII of the Water Supply Agreement between South Sabine Water Supply Corporation (Seller) and Beechwood Water Supply Corporation (Purchaser) for the sale of water by Seller to Purchaser approved by Seller and Purchaser on September 17, 2018 be amended to read as follows:

This contract shall expire on September 17, 2038, and may be renewed after said date on terms mutually agreeable to Seller and Purchaser.

Motion seconded by Steve Gray.

Votes for __4__. Votes against __0__.

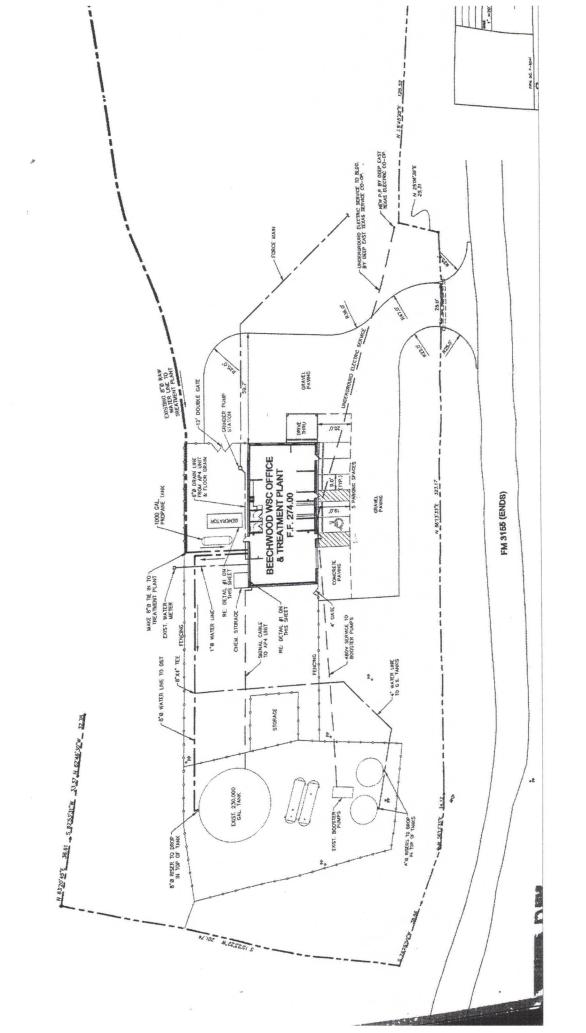
Motion:

__x__ approved

not approved.

Glen Provost, Acting Secretary,

Board of Directors



Texas Water Development Board Water Project Information										
A. Project Name BEECH	UCOD W	SC	B. Proje	ect No.			C. County			
DRINKING WAT	ER REPA	HRS	12860			Sabin	Sabine			
D. Program(s) DWSRF			E. Date 6/6/18	8			1	Planning Group	(A-P)	
G. Water Project Description: (Mu	ultiphase project	, new or exp	ansion;	plant, well, st	orag	e, pump stati	ion, distribution sys	stem, etc)		
	Attach map	of service a	rea affe	cted by Proi	ect o	or other doc	umentation.			
H. Is an Inter Basin Transfer pote							District (If yes, ider	ntify District by n	ame)?	
Yes No			Yes 🗸	SOUTH S	SABI	NE WSC			lo 🗌	
J. Service Area Projected Current Population Population for at least a 20						Proje	cted Population			
year period:	Year:	20	_	2020		2025	2030	2035	2040	
	Population:			1300		1300	1300	1300	1300	
Area projected for: (Check one) Project service area Utility boundary City boundary Projection data source:										
Project Design Year: (Year for which project will be sized)			(Popula		Design Pop erved by proje		1300			
(Year for which project will be sized) (Population served by project on the design year) (Ropulation served by project on the design year) (Population served by project on the design year) (If Yes, please specify on what page in the Regional Water Plan - Regional Water Plan Page Number: Answer: No										
L. What type of water source is as							Groundwate		use	
M. Will the project increase the vo	olume of water s	upply? Y	es	No [✓		***************************************			
N. What volume of water is the pr	oject anticipated	d to deliver/	treat per	year? 560			Acre-Feet/Y	ear		
O. Current Water Supply Informat		10.05								
Surface Water Supply Source / Pi N/A	rovider Names	Certifica N I / A				Source Co	unty		lume and Unit	
		N/A				N/A	-		00,000	
Groundwater Supply Aquifer SOUTH SABINE V	VSC		WTO	on N CNTY	,	Source Co		13,500	lume and Unit	
Reuse Water N/A		Certifica N/A				Annual Am	ount Used and Un	it		
P. Proposed Water Supply Assoc		th the Propo	sed Pro	ject						
Surface Water Supply Source / Pr	rovider Names	Certifica N/A				Source Co	unty	Annual Vo	lume and Unit	
Groundwater Supply Aquifer Well Fig			eld location	on CNTY		Source Co	•	Annual Vo 13,500	lume and Unit	
				cate No.		Annual Amount Used and Unit N/A				
Q. Consulting Engineer Name Schaumburg & Polk, Inc.				Telephone No. 409.866.0341			E-mail address			
R. Applicant Contact Name, Title Mary Westemeier,		С	Teleph	none No. .579.39			mmann@spi-eng.com E-mail address beech@windstream.net			

Section II - DESCRIPTION OF THE WATER SYSTEM

IMPORTANT: Include only the equipment located at your water system, not the equipment located at another water system unless two or more systems rely on each other during an emergency, and it is documented in a contract or written agreement.

1. SOURCE INFORMATION

A.	Groundwater Systems -	Does	Your Water	System Have	A	Ground Water	Well(s)?
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B. Surface Water/GUI Systems: Does Your Water System Treat Surface Water or Ground Water Und Influence of Surface Water Sources(s) (raw water intake pump information)? TCEQ							YES [□ NO 🖂 ((If N	O, go to 1.B
B. Surface Water/GUI Systems: Does Your Water System Treat Surface Water or Ground Water Und Influence of Surface Water Sources(s) (raw water intake pump information)? YES NO (If NO, go What plant name is Source ID Designation Intake Location Emergency? Source ID Owner's Designation Used During an Emergency? What plant name is source cassociated with? Cap with?			Well Location				name is this source associated			
B. Surface Water/GUI Systems: Does Your Water System Treat Surface Water or Ground Water Und Influence of Surface Water Sources(s) (raw water intake pump information)? YES NO (If NO, go What plant name is this source of Pumps Source ID Designation Intake Location					YES NO					gpm
B. Surface Water/GUI Systems: Does Your Water System Treat Surface Water or Ground Water Und Influence of Surface Water Sources(s) (raw water intake pump information)? YES NO (If NO, go What plant name is this source Cap associated with?) 62020070A Well #1 HWY 87 YES NO SSWSC well #1 62020070C Well #2 HWY 87 YES NO SSWSC well #2 C. Does Your Water System Purchase (or Receive) Water? Is this affected utility a direct pressure system? (Does the provider's water flow directly into distribution system, not into a tank? Direct pressure systems generally have no tanks or purchs.					YES NO					gpm
Influence of Surface Water Sources(s) (raw water intake pump information)? YES NO (If NO, go What plant name is this source of Pumps Beginst No (If NO, go) What plant name is this source cap associated with? YES NO (If NO, go) What plant name is this source (Cap associated with? YES NO (If NO, go) Well #1 HWY 87 YES NO (If NO, go) Well #2 HWY 87 YES NO (If NO, go) I. Is this affected utility a direct pressure system? (Does the provider's water flow directly into distribution system, not into a tank? Direct pressure systems generally have no tanks or put YES (If NO, go) II. Does this affected utility re-pressurize the water received from the provider? (Does the water street)					YES NO					gpm
TCEQ Source ID Owner's Designation Intake Location Used During an Emergency? Intake Location Used During an Emergency? Number of Pumps Source associated with? 62020070A Well #1 HWY 87 YES ☒ NO ☐ SSWSC well#1 62020070C Well #2 HWY 87 YES ☒ NO ☐ SSWSC well #2 C. Does Your Water System Purchase (or Receive) Water? YES ☒ NO ☒ (If NO, go well #2) i. Is this affected utility a direct pressure system? (Does the provider's water flow directly into distribution system, not into a tank? Direct pressure systems generally have no tanks or purchase. It is affected utility re-pressurize the water received from the provider? (Does the water systems water flow directly into the distribution system, not into a tank? Direct pressure systems generally have no tanks or purchase. It is this affected utility re-pressurize the water received from the provider? (Does the water systems generally have no tanks or purchase. It is this affected utility re-pressurize the water received from the provider? (Does the water systems generally have no tanks or purchase. It is this affected utility re-pressurize the water received from the provider? (Does the water systems)							on)?	□NO⊠	(If N	
PES NO			Intake Location		_	of		name is this source associa		Total Pump Capacity at Intake
YES NO	62020070A	Well #1	HWY 87	YES	⊠ NO □					220gpm
 C. Does Your Water System Purchase (or Receive) Water? i. Is this affected utility a direct pressure system? (Does the provider's water flow directly into distribution system, not into a tank? Direct pressure systems generally have no tanks or purchase. ii. Does this affected utility re-pressurize the water received from the provider? (Does the water) 	62020070C	Well #2	HWY 87	YES	⊠ NO □					395gpm
 i. Is this affected utility a direct pressure system? (Does the provider's water flow directly into distribution system, not into a tank? Direct pressure systems generally have no tanks or puties. ii. Does this affected utility re-pressurize the water received from the provider? (Does the water received from the provider). 				YES	NO 🗌					gpm
ii. Does this affected utility re-pressurize the water received from the provider? (Does the wat	C. Do	i. Is this a	ffected utility a direct pressu	ure syster	m? (Does the	provid	ler's wa	ater flow d	lirect anks	ly into your or pumps.)
									Y	ES 💢 NO 🏽
pumps?) Only provide added pressure when needed, Normal pressure is 65 psi YES		the prov	rider flow into a tank which i	is then pu	mped out into	the d	istribut	ion syster	m by	your own

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Provider Name	PWS ID	Pressure Plane (if more than 1 plane)	Will You Rely on This Provider for Water During an Emergency?	Will You Rely on This Provider for Pressure at Your Customer's Connections During an Emergency?	Capacity	Normally Open or Closed Interconnect?
			YES NO	YES NO	gpm	
			YES NO	YES NO	gpm	
			YES NO	YES NO	gpm	

2.	TD	EA	TR	A I	IT	INI	EO	DR	AA	TI		AI
~ .	10		1 I IV		4 1	11.4			ИΑ		u	IN

A. Does Your Water System Disinfect the Water?				YES ∐ NO ⊠ (If NO, go to		
Disinfectant (Disinfectant Name)	Location (Plant Name)	Disinfectant Used During an Emergency?	Type of Disinfectant (Liquid/Gas)	Volume Stored (gals or lbs.)	Days of Storage (Emergency Demand)	Electricity Required to Feed Disinfectant?
		YES NO				YES NO
		YES NO				YES NO
		YES NO NO				YES NO NO

B. Does Your Water System Provide Treatment Other Than Disinfection (example: polyphosphate, caustic etc.)?

YES □ NO ☒ (If NO, go to 2.C)

Chemical Feed Pump (Chemical Feed Name)	Location (Plant Name)	Chemical Used During an Emergency?	Type of Chemical (Liquid/Gas)	Volume Stored (gals or lbs.)	Days of Storage (Emergency Demand)	Electricity Required to Feed Chemical
		YES NO				YES NO
		YES NO				YES NO
		YES NO				YES NO

C. Does Your Water System Have Transfer Pump(s) Between Treatment Units? These are the pumps located within the treatment processes of your treatment Plant(s).

(Do not include well or intake pumps)

YES ☐ NO ☒ (If NO, go to 3.A)

In-Plant Transfer Pump Name	Location (Plant Name)	Pump Used During an Emergency?	Pump Capacity
		YES NO	gpm
		YES NO	gpm
		YES NO	gpm

3. DISTRIBUTION SYSTEM INFORMATION

A. Does Your Water System Have Booster and/or Service Pumps in the Distribution system?

YES ⊠ NO ☐ (If NO, go to 3.B)

Booster/Service Pump Name	Location (include pressure plane)	Pump Used During an Emergency?	Pump Capacity
		YES NO	gpm
		YES NO	gpm
		YES NO	gpm

B. Does Your Water System Have Any Finished Water Storage/Pressurization Tanks?

YES ⊠NO ☐ (If NO, go to 4.A)

			\(\(\text{in ito}\), go to 4171
Tank Type (Elevated, Hydropneumatic, Ground or Standpipe)	Location (include pressure plane)	Tank Used During an Emergency?	Tank Capacity
Ground st #1	5137 Fairdale Rd Hemphil TX 75948	YES ⊠ NO □	.230 gal
Ground st #2	5137 Fairdale Rd Hemphil TX 75948	YES ⊠ NO □	.60 gal
Ground st #3	5137 Fairdale Rd Hemphil TX 75948	YES □ NO ☒	.60 gal

4. PRESSURE PLANES

Does Your Water System Have More Than One Pressure Plane?

YES	NO	X	(If	NO.	ao	to	5
IES	NO	N	(III)	NO,	go	to	Э

Pressure Plane	TCEQ Source ID(s) or Provider PWS ID(s)	Plant Names(s) (If Applicable)	Pump Names(s) (If Applicable)

5. SYSTEM DEMAND

Emergency Operation means the demand in MGD from the highest emergency usage day (not normal daily usage) occurring during a natural disaster within the last 3 years, excluding fire events and large water main breaks.

Demand Information	Normal Operation	Emergency Operation
Average Daily Demand:	42,500 MGD	86,000 MGD
Maximum Daily Demand:	<u>159,200</u> MGD	200,000 MGD
System Capacity:	350,000 MGD	600,000 MGD

6. SYSTEM SIZE

A. Does Your Water System Sell/Provide Water to Other Water Systems?

YES 🗌	NO D	(If NC	o, go to	6.B
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Not subject to disclosure under Chapter 552, Government Code Receiver/Buyer PWS ID Will you Will You Capacity in Number of Normally Name (if provide "water Provide 20 psi GPM sold to Connections in Open or applicable) only" to this to the Receiver on the Receiver's Closed Receiver Receiver's daily basis Water System Interconnect? During an Distribution Emergency? System During an **Emergency?** YES NO YES NO YES NO YES NO

B. Number of Connections and Population in Each Pressure Plane in Your Water System?

(If applicable, include any connections from other water systems you may serve in the table in 6.A)

Pressure Plane (if applicable)	Number of Connections	Population
PP1	516	1187

7. POWER PROVIDER(s)

Electric Utility or Retail	Deep Eastex Electrical Coop
Electrical Provider(s)	

8. ELECTRICAL SCHEMATIC

Provide an electrical schematic or diagram of your water system's emergency power facilities and the equipment (treatment(s), supply, pressure maintenance, etc.) that is powered.

9. OTHER PERTINENT SYSTEM INFORMATION

Other information about the system that could be useful during an emergency or that will add clarity to your EPP.
(This can include plant equipment not used or any other circumstances that would clarify how the affected utility will
meet the EPP requirements):

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Not subject to disclosure under Chapter 552, Government Code

Section III- Alternate Power Options Overview

The following is a list that will assist in determining which option (or options) should be selected to demonstrate the ability to provide emergency operations during extended power outages lasting more than 24 hours. Provide the required information on the following applicable pages. You must select at least one option and **options (7-13) may require more than one option.**

OPTION 1: PERMANENTLY INSTALLED AUTOMATIC STARTING AUXILIARY GENERATOR(S) COMPLETE OPTION 1 – Sections A through C

OPTION 2A: YOUR SYSTEM WILL RELY ON YOUR PROVIDER DURING AN EXTENDED POWER OUTAGE

The type of systems that will utilize this option are a distribution only system which receives water under direct pressure relying on their provider for water at 20 psi throughout their distribution system. A water system receives water to a tank and re-pressurizes the water to maintain 20 psi in their distribution system may also choose this option. Choose if you will rely on a water provider *during an extended power outage*.

COMPLETE OPTION 2A - Sections A and B

OPTION 2B: MEMBER OF TXWARN

A "distribution only" system may only use this option if it needs certified staff for operational purposes or needs equipment to repair their distribution system. A distribution only system will need to choose Option 2A for the purpose of maintaining 20 psi in its distribution system during an extended power outage.

COMPLETE OPTION 2B – Sections A through B

OPTION 3A: NEGOTIATION OF LEASING AND CONTRACTING AGREEMENTS

Your facility has obtained a leasing or contract agreement for emergency power equipment and fuel. The agreement(s) must provide for coordination with the Texas Division of Emergency Management.

COMPLETE OPTION 3A – Sections A through D

OPTION 3B: MUTUAL AID AGREEMENT(S) WITH OTHER WATER PROVIDERS

Your facility is a member of another mutual aid provider, you have identified, and will make available one or more resources with another mutual aid provider. Your facility has obtained mutual aid agreement(s) for emergency power equipment and fuel with other water providers including retail, exempt, potable, or raw water providers. The agreement(s) must provide for coordination with the Texas Division of Emergency Management.

COMPLETE OPTION 3B – Sections A through B

OPTION 4: USE OF PORTABLE GENERATOR(S) CAPABLE OF SERVING MULTIPLE FACILITIES EQUIPPED WITH QUICK-CONNECT SYSTEMS

A portable generator capable of being moved to serve multiple facilities where both the portable generator and facilities are equipped with compatible quick-connect systems.

COMPLETE OPTION 4 – Sections A through D

OPTION 5: USE OF ON-SITE ELECTRICAL GENERATION OR DISTRIBUTED GENERATION FACILITIES

On-site electrical generation or distributed generation facilities. On-site electrical generation means that each facility generates, or can generate, its own power rather than being powered by a commercial electric power grid. Distributed Generation Facilities are small-scale power producing facilities located near the electrical load, which may feed into a common grid. An example is electricity generated by solar power.

COMPLETE OPTION 5 - Sections A through D

Not subject to disclosure under Chapter 552, Government Code

OPTION 6: HARDENING THE ELECTRIC TRANSMISSION AND DISTRIBUTION SYSTEM SERVING THE WATER SYSTEM

One alternative is to relocate electric transmission lines for the system from overhead to underground and protect them from strong winds. Another alternative is to replace overhead transmission lines, poles and rated appurtenances with ones that can withstand historical hurricane-force wind velocities, and trim or remove any trees or branches next to and above the overhead transmission lines.

COMPLETE OPTION 6 - Sections A and B

OPTION 7: USE AND MAINTENANCE OF DIRECT ENGINE OR RIGHT-ANGLE DRIVES

Direct engine or right-angle drive. This option is only available to existing facilities, **may** require more than one option, and must still provide 20 psi throughout the distribution system.

COMPLETE OPTION 7 - Sections A through C

OPTION 8A: DESIGNATION OF THE WATER SYSTEM AS A CRITICAL LOAD FACILITY

Your water system is registered with your electric provider as a critical load facility, this **will** require more than one option, and must provide 20 psi throughout the distribution system (see page 19 for additional information on the requirement for a second option). Will require documentation from your electric provider indicating your facility is protected from power loss lasting more than 24 hours.

COMPLETE OPTION 8 - Sections A and B

OPTION 8B: RECOGNITION OF THE WATER SYSTEM AS HAVING REDUNDANT, ISOLATED, OR DEDICATED ELECTRICAL FEEDS

Your water system has redundant, isolated, or dedicated electrical feeds to water plant(s) and equipment, this **will** require more than one option, and must provide 20 psi throughout the distribution system (see page 21 for additional information on the requirement for a second option). Will require documentation from your electric provider indicating your facility is protected from power loss lasting more than 24 hours.

COMPLETE OPTION 8B - Sections A and C

OPTION 9: PROVIDE WATER STORAGE CAPABILITIES

Your water system has sufficient ground, elevated, or standpipe storage to provide your entire distribution system with water at 20 psi during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.

COMPLETE OPTION 9 - Sections A and E

OPTION 10A: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING AN EMERGENCY INTERCONNECT

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.

COMPLETE OPTION 10 - Sections A and F

OPTION 10B: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING A WATER HAULER

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.

COMPLETE OPTION 10 - Sections A and H

Not subject to disclosure under Chapter 552, Government Code

OPTION 11: WATER SYSTEM HAS THE ABILITY TO PROVIDE WATER THROUGH ARTESIAN FLOWS

An affected utility can provide water using an approved artesian source to their distribution system at 20 psi during an extended power outage lasting more than 24 hours. This option **will** need to be combined with another option (see page 28 for additional information on the requirement for a second option).

COMPLETE OPTION 11 - Sections A and E

OPTION 12: REDUNDANT INTERCONNECTIVITY BETWEEN PRESSURE ZONES

An affected utility opens valves in one or more pressure zones within their water system to provide water at 20 psi in all pressure zones throughout its entire distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.

COMPLETE OPTION 12 - Sections A and D

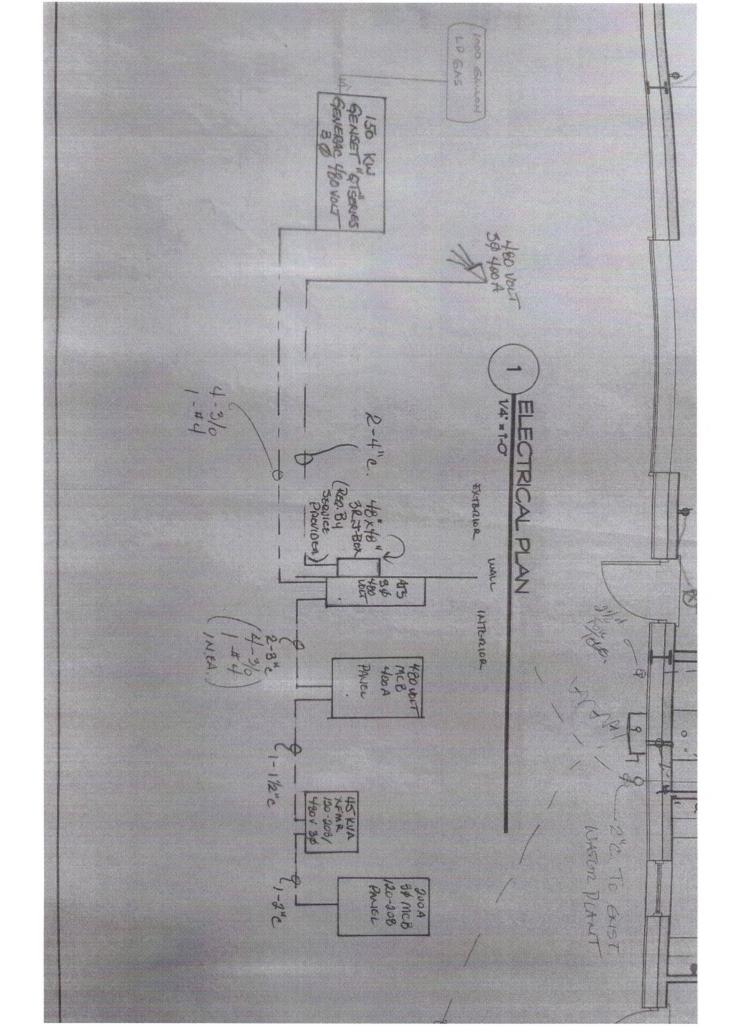
OPTION 13: USE EMERGENCY WATER DEMAND RULES TO MAINTAIN EMERGENCY OPERATIONS

An affected utility will provide a minimum of 0.35 gallons per minute (gpm) per connection to the distribution system while maintaining distribution pressures of at least 20 psi in the event of the loss of normal power supply. This option **will** need to be combined with other option(s) to ensure 20 psi during a water outage lasting more than 24 hours (see page 30 for additional information on the requirement for a second option).

COMPLETE OPTION 13 - Sections A and D

OPTION 14: ANY OTHER ALTERNATIVE DETERMINED BY THE COMMISSION TO BE ACCEPTABLE

An affected utility can propose other alternatives of meeting the requirements of TWC 13.1394 if the alternative(s) ensure water will be provided at 20 psi throughout the distribution system during a water outage lasting more than 24 hours. COMPLETE OPTION 14 – Sections A and B



Section IV- Alternate Power Options Details

OPTION 1: PERMANENTLY INSTALLED AUXILIARY GENERATOR(S)

A. Generator Specifications.

Please list all the generators, all equipment to be powered, and the power needs for each piece of equipment.

				Gear?	hours a day, 7 days a week?	Powered During an Emergency	Requirements for Each Facility and Treatment Unit Powered**
	30KW 150KW	1 🔲	Propane	YES 🛛	YES 🛛	Well pump 1	kW
	17012	2 🗆		NO 🗆	NO 🗆	Well pump 2	kW
		2 🗆				Well pump 3	kW
		3 🖂				Booster pump 1	kW
						Booster pump 2	kW
						Booster pump 3	kW
						Disinfection Equipment	kW
						Treatment Equipment	kW
						Compressor(s)	kW
							kW
		1 🗌		YES 🗌	YES 🗌		kW
		2 🔲		NO 🗆	NO 🗆		kW
		2 🗀		_	_		kW
		3 🗌					kW
		1 🗌		YES 🗌	YES 🗌		kW
		2 🗌		NO 🗆	NO 🗆		kW
		2 🗀					kW
		3 🗌					kW

B. Fuel Location

- i. Physical Location of Fuel Supply (GPS or "911" address): 5137 Fairdale Rd Hemphil TX 75948
- C. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed based on past power outages and utility knowledge.
 - i. How much fuel is stored on site? 1,000
 - ii. How much fuel does the generator use per hour? (Attachment **B** may assist in determining that amount) 1.5gl/hr
 - iii. Does the water system have access to additives/other methods to prevent fuel from freezing as per manufactures recommendations (example diesel additives)?

^{**}The generator's total KWs cannot be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. **

OPTION 2A: YOUR SYSTEM WILL RELY ON YOUR PROVIDER DURING AN EXTENDED **POWER OUTAGE**

Choose only if you will rely on purchased water as your source to provide 20 psi to your customer's connections during an extended power outage (emergency operations). You are required to provide written documentation as described below to be able to use this option.

In an emergency, will water

	PLANE	from this provider go to a tank?	this provider for pressure at 20 psi to YOUR customer's connections?					
		YES NO	YES NO					
		YES NO	YES NO					
		YES NO	YES NO NO					
provide	A. Is your water system solely relying on a provider(s) for emergency operations? (This means, the provider's water flows directly into your distribution system, and not into a tank, you have no tanks or pumps, and your provider is also providing 20 psi of pressure in your distribution system.)							
☐ YES (If ye	es, you must submit docu	mentation under 2A.i. listed be	elow.)					
NO (Pleas	se fill out the pages for the a	lternative power option that will p	power the equipment)					
i.	Please provide one or m	ore of the following:						
	A copy of the contract(s) with your provider(s) that includes language guaranteeing 20 psi throughout your distribution system or specific pressure plane. Please tab the page and highlight the section in the contract guaranteeing pressure.							
	☐ A letter from the provider(s) including language guaranteeing 20 psi throughout your distribution system or specific pressure plane.							
		Page(s) from the provider's EPP which includes the connection count for your system (or pressure plane) in the provider's connection count.						
	demonstrating that the p	☐ An engineering study (hydraulic analysis) sealed by a Texas Licensed Professional Engineer demonstrating that the provider is capable, of providing your entire distribution system with water services at a minimum of 20 psi.						
ii.	Does your water system during an emergency?	operate any equipment such as	booster disinfection that will need powe					
	YES (Please fill out t	he pages for the alternative pow	er option that will power the equipment)					
system provide	B. Is your water system solely relying on water only from your provider(s) into a tank and your water system will be re-pressurizing the water received from the provider? (This means the water from the provider flows into a tank which is then pumped out into the distribution system by your own pumps. Your water system is not relying on the provider for pressure.)							
	XES (If yes, you must submit documentation under 2.B.i. listed below and fill out the pages for the alternative power option(s) that will power the re-pressurization equipment.)							
□ NC	□ NO							

Provider Name

PWS ID

PRESSURE

PLANE

In an emergency, will you rely on

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I.	Please provide one or more of the following:
	A copy of the contract(s) with your provider(s) that includes language guaranteeing your water system with water. Please tab the page and highlight the section in the contract guaranteeing water.
	☐ A letter from the provider(s) which includes language guaranteeing water to your water system or specific pressure plane.
	Page(s) from the provider's EPP which includes the connection count for your system (or pressure plane) in the provider's connection count.
ii.	Does your water system operate any equipment such as booster disinfection that will need powe during an emergency?
	YES (Please fill out the pages for the alternative power option that will power the equipment NO

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OPTION 2B: CONTRIBUTING MEMBER OF TXWARN

Member has identified needed resource(s) to the TXWARN system. Installation of a quick connect system is required with this option. A "distribution only" system may not use this option to maintain 20psi in distribution. A distribution only system is defined as a system that receives treated water from another entity and does not maintain storage or pressure facilities.

A.	Please p	rovide ALL of	f the followin	g items						
	A copy of the TXWARN membership profile page.									
		☐ A copy of the mutual aid agreement with TXWARN (Applicable to Investor/Privately Owned Water systems)								
	☐ A local government entity is covered by the Texas Statewide Mutual Aid System as stated in the Texas Government Code Section 418.111 Subchapter E (Applicable to Cities, Counties, and Districts)									
B.	Generat	or specification	ons							
Please list the each piece of			ined from TX	WARN. L	ist all equipment to be powered, a	nd the power needs for				
Generator		Power (KW)	Quick Connect Installed?	Phase	List all Facilities and Treatment Units That Will Be Powered During an Emergency	Power Requirements of Each Facility and Treatment Unit Powered				
			YES 🗌	1 🗌	Well pump 1	kW				
			NO \square		Well pump 2	kW				
			NO 🗆	2 🗌	Well pump 3	kW				
			Date to be	3 🗌	Booster pump 1	kW				
			installed		Booster pump 2	kW				
					Booster pump 3	kW				
					Disinfection Equipment	kW				
					Treatment Equipment	kW				
					Compressor(s)	kW				
						kW				
			YES 🗌	1 🗌		kW				
			NO \square			kW				
			NO 🗌	2 🗌		kW				
			Date to be	3 🔲		kW				
			installed			kW				
						kW				
						kW				
						kW				
						kW				
						kW				
					KWs listed under the power red The generator must be able to					

listed by the water system. **

CONFIDENTIAL Not subject to disclosure under Chapter 552, Government Code OPTION 3A: NEGOTIATION OF LEASING AND CONTRACTING AGREEMENTS

Your water system will obtain an agreement with a generator providing company. Installation of a quick connect system is required with this option. Please note that the agreement must provide for coordination with the Texas Division of Emergency Management.

- A. Provide a signed copy of the agreement
- **B.** Generator Specifications

Please list the generator to be leased, all equipment to be powered, and the power needs for each piece of equipment.

(KW)		Connect Installed?	Treatment Units That Will Be Powered During an Emergency	Requirements for Each Facility and Treatment Unit Powered
	1 🗆	YES 🗌	Well pump 1	kW
		NO \square	Well pump 2	kW
	2 🗆	NO 🗆	Well pump 3	kW
	3 🗆	Date to	Booster pump 1	kW
		be	Booster pump 2	kW
		installed	Booster pump 3	kW
			Disinfection Equipment	kW
			Treatment Equipment	kW
			Compressor(s)	kW
				kW
	1 🗌	YES 🗌		kW
				kW
	2 🗌	NO Date to		kW
	3 🗆	be installed		kW
	1 🗌	YES 🗌		kW
				kW
	2 🗌	NO Date to		kW
	3 🗆	be installed		kW

^{**}The generator's total KWs **cannot** be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. **

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- C. Fuel Location
 - i. Physical Location of Fuel Supply (GPS or "911" address):
- D. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed based on past power outages and utility knowledge.
 - i. How much fuel is stored on site?
 - ii. How much fuel does the generator use per hour? (Attachment B may assist in determining that amount.)

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Member has identified needed resource(s) to another water provider as part of a mutual aid agreement. Installation of a quick connect system is required with this option. **A "distribution only" system may not use this option to maintain 20psi.** Please note that the agreement must provide for coordination with the Texas Division of Emergency Management.

A. Pleas	se provide A	ALL of th	e following ite	me:			argement management	
☐ Name of water system(s) or group that you have a mutual aid agreement with.								
A copy of the mutual aid agreement from each water provider.								
☐ Hi	☐ Highlight the area in the agreement that lists the resource(s) to be provided by the water system(s).							
B. Gene	rator speci	fications						
Please list the items cowered, and the po					utual-aid agreement.List a	all equ	uipment to be	
Generator Brand & Model	Max Power (KW)	Phase	Quick Connect Installed?	Fuel Type	List all Facilities and Treatment Units That V Be Powered During an Emergency	Vill	Power Requirements for Each Facility and Treatment Unit Powered	
		1 🗌	YES 🗌		Well pump 1		kW	
		2 🗆	NO Date to be	ate to be	Well pump 2		kW	
	3 🗆				Well pump 3		kW	
		3 🗌			Booster pump 1		kW	
	17 - 12	installed		Booster pump 2		kW		
					Booster pump 3		kW	
					Disinfection Equipment		kW	
					Treatment Equipment		kW	
					Compressor(s)		kW	
							kW	
		1 🗌	YES 🗌				kW	
			No 🗆				kW	
		2 🗌	NO Date to be	_			kW	
		3 installed					kW	
		1 🗌	YES 🗌				kW	
							kW	
		2 🗌	NO Date to be				kW	
Date to be installed					kW			
**The generator's	total KWs c	annot be	less than the K	Ws listed un	nder the power requiremen	nts for	each facility and	

treatment unit that will be provided power. The generator must be able to power the equipment listed by the water

system. **

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OPTION 4: USE OF PORTABLE GENERATOR(S) CAPABLE OF SERVING MULTIPLE FACILITIES EQUIPPED WITH QUICK-CONNECT SYSTEM(S)

A. Please list the storage location of the portable generator. If sharing the generator, list the name of the water system you are sharing with and their location.

Generator Brand & Model	Generator Storage Location	Distance from Your Water System	Other Water Systems Sharing This Generator (PWS Name and ID if applicable)	Distance Between Your Water System and Those Sharing the Generator

B. Generator specifications

Please list all the portable generators, all equipment to be powered, and the power needs for each piece of equipment.

Generator Brand & Model	Max Power (KW)	Phase	Fuel Type	Quick Connect Installed?	List all Facilities and Treatment Units That Will Be Powered During an Emergency	Power Requirements for Each Facility and Treatment Unit Powered
		1 🗌		YES 🗌	Well pump 1	kW
		2 🗌		NO 🗌	Well pump 2	kW
		3 🗌		Date to be installed	Well pump 3	kW
				Ilistalled	Booster pump 1	kW
					Booster pump 2	kW
					Booster pump 3	kW
					Disinfection Equipment	kW
					Treatment Equipment	kW
					Compressor(s)	kW
						kW
		1 🗌		YES 🗌		kW
		2 🗆		NO 🗆		kW
						kW
		3 🗌		Date to be installed		kW

- C. Fuel Location (if applicable)
 - i. Physical Location of Fuel Supply (GPS or "911" address):
- D. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or

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- i. How much fuel is stored on site?
- ii. How much fuel does the generator use per hour? (Attachment B may assist in determining that amount.)

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OPTION 5: USE OF ON-SITE ELECTRICAL GENERATION OR DISTRIBUTED GENERATION FACILITIES

Onsite Electrical Generation means that each facility generates its own power rather than being powered by a commercial electric power grid. Distributed Generation Facilities are small-scale power producing facilities located near the electrical load which may feed into a common grid.

- A. On-Site Electrical Generation or Distributed Generation Specifications
 - i. Describe On-Site Electrical Generation or Distributed Generation Facility:
- B. On-site Electrical Generation or Distributed Generation Specifications

Please list all facilities, list all equipment to be powered and the power needs for each piece of equipment.

Type of On-site Electrical Generation Facilities.	Max Power (KW)	Fuel Type (if applicable)	List all Facilities and Treatm Units That Will Be Powered During an Emergency	Power Requirements of Each Facility and Treatment Unit Powered
			Well pump 1	kW
			Well pump 2	kW
			Well pump 3	kW
			Booster pump 1	kW
			Booster pump 2	kW
5			Booster pump 3	kW
-			Disinfection Equipment	kW
			Treatment Equipment	kW
			Compressor(s)	kW
				kW
				kW
n				 kW
				kW
				kW
				kW

- C. Fuel Location
 - i. Physical Location of Fuel Supply (GPS or "911" address):
- D. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed based on past power outages and utility knowledge.
 - i. How much fuel is stored on site?
 - ii. How much fuel does the generator use per hour? (Attachment **B** may assist in determining that amount)

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OPTION 6: HARDENING THE ELECTRIC TRANSMISSION AND DISTRIBUTION SYSTEM SERVING THE WATER SYSTEM

One alternative is to relocate electric transmission lines for the system from overhead to underground and protect them from flooding. Another alternative is to replace overhead transmission lines, poles and rated appurtenances with ones that can withstand historical hurricane-force wind velocities, and trim or remove any trees or branches next to and above the overhead transmission lines.

A. Hardening Description

i. Describe the hardening activities:

B. Diagram

Include a diagram showing the electrical system, including the power transmission system (from the power generation facility to the customer's power meter) and distribution system (the water system's electrical wiring after the customer's power meter) feeding each water facility and the preventive measures taken for each.

Not subject to disclosure under Chapter 552, Government Code OPTION 7: USE AND MAINTENANCE OF DIRECT ENGINE OR RIGHT- ANGLE DRIVES

(EXISTING FACILITIES ONLY) This option is only available to existing facilities and, **may** require more than one option. If right angle drive is located only on a well how will treated water be sent to the distribution system or if located only on a booster pump, how is treated water entering a storage tank, and must still provide 20 psi throughout the distribution system.

A. Direct Engine or Right-Angle Drive Specification

Please list all the drives, all equipment to be powered, and the power needs for each piece of equipment.

Brand or Model	Max Power (HP, kW)	RPM	Fuel Type	List all Facilities and Treatment Units Powered	Power Requirements of Each Facility and Treatment Unit Powered (circle appropriate unit)
				Well pump 1	kW or HP
				Well pump 2	kW or HP
				Well pump 3	kW or HP
				Booster pump 1	kW or HP
				Booster pump 2	kW or HP
				Booster pump 3	kW or HP
				Disinfection Equipment	kW or HP
				Treatment Equipment	kW or HP
				Compressor(s)	kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP
					kW or HP

B. Fuel Location (if applicable)

- Physical Location of Fuel Supply (GPS or "911" address):
- C. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed based on past power outages and utility knowledge.
 - i. How much fuel is stored on site?
 - ii. How much fuel does the generator use per hour? (Attachment B may assist in determining that amount.)

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OPTION 8A: DESIGNATION OF THE WATER SYSTEM AS A CRITICAL LOAD FACILITY

Your water system is registered with your electric provider as a critical load facility. This **will** require more than one option, because designation of critical load does not guarantee an uninterrupted supply of electricity. It is the responsibility of the water system to plan for alternative sources of electric power should a localized outage or load shed event occur. The water system is required to provide 20 psi throughout the distribution system.

A.	A. Provide ALL of the following items for design	gnation of Critical Load Facility.						
	☐ Name of electric provider(s).							
	☐ A copy of the letter or email from your elect critical load status.	A copy of the letter or email from your electric provider(s) designating your water system as having critical load status.						
	☐ Submit a diagram of your water system tha OF THE WATER SYSTEM	t includes all equipment listed in Section II DESCRIPTION						
Please choose other option(s) to ensure your utility can maintain 20psi if your electrical provide provide your facility with power during an outage lasting longer than 24 hours. Please provide other option(s) then complete that section of the EPP.								
						В.		Indicate all facilities that are included in critical load status (please refer to the facilities listed for the PWS in Section II – Description of the Water System) and use the exact same naming convention.
Name of P	Plant Addre	ss to Electric Meter Providing Power to Plant						
8								

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OPTION 8B: DESIGNATION OF THE WATER SYSTEM AS HAVING REDUNDANT, ISOLATED, OR DEDICATED ELECTRICAL FEEDS

Your water system has redundant, isolated, or dedicated electrical feeds. This **will** require more than one option, because having redundant, isolated, or dedicated electrical feeds does not guarantee an uninterrupted supply of electricity. It is the responsibility of the water system to plan for alternative sources of electric power should a localized outage or load shed event occur. The water system is required to provide 20 psi throughout the distribution system.

A.	Provide the following if facility has r	redundant, isolated, or dedicated electrical feeds		
	Il provide redundant, isolated, or dedicated electrical feeds.			
	A copy of the letter or email from your redundant, isolated, or dedicated electrons.	our electric provider(s) that designates your water system as having rical feeds.		
	☐Submit a diagram of your water system that includes all equipment listed in Section II DESCRIPTION THE WATER SYSTEM			
	☐ Please choose other option(s) to ensure your utility can maintain 20psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.			
	Please provide other option(s)	then complete that section of the EPP.		
В.	Indicate all facilities that are include	ed in having redundant, isolated, or dedicated electrical feeds:		
Name of Pla	ant	Address to Electric Meter Providing Power to Plant		
		3		
		n having redundant, isolated, or dedicated electrical feeds:		
Name of Pla	ant	Address to Facility without Dedicated Electrical Feeds		

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OPTION 9: PROVIDE WATER STORAGE CAPABILITIES

Your water system has sufficient ground, elevated, or standpipe storage to provide your entire distribution system with water at 20 psi during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option if the water system does not have sufficient, useful storage during a power outage lasting longer than 24 hours. It is the responsibility of the water system to plan for alternative sources of electric power should the water system not have sufficient storage to last for greater than 24 hours.

A. Explain how the water in storage will flow to customers, and how it will be replenished (with or

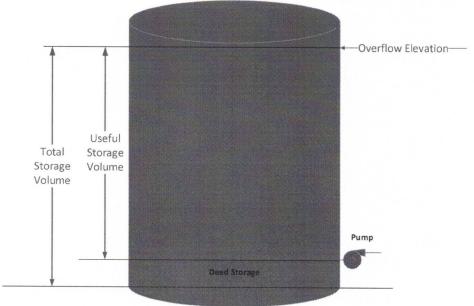
	without electricity)?
B.	Does the water system have an existing, valid exception or alternative capacity requirement (ACR) for elevated or ground storage capacity? [30 TAC §290.45(g) and or 30 TAC §290.39(l)]
	☐ YES **
	□NO
	** Water systems with an exception or alternative capacity requirement that <i>is less than</i> , the required minimum capacity requirements for storage, will be required to choose a different option. A different option is required because an exception or alternative capacity requirement reduces the water system's minimum required treatment capacity and consequently reduces the system's ability to provide useful¹ water storage capacity during an outage lasting more than 24 hours.
	Use the diagram on the next page to assist you in answering questions C and D.
C.	What is the useful storage ¹ capacity of all storage tanks that maintain distribution pressures above 20 psi (46 feet of residual hydraulic head above the highest connection)? Note: If you have dedicated fire storage, do not include it in the number above.
	Hotel in you have dedicated ine storage, do not include it in the number above.
	Useful storage capacity of all storage tanks:
D.	
D.	Using the water systems Maximum Daily Demand (MDD) listed in question 5 under <u>Section II – Description of the Water System</u> , divide the useful storage volume (million gallons) for maintaining distribution pressures above 20 psi by the MDD under emergencies. This is the amount of days
	Using the water systems Maximum Daily Demand (MDD) listed in question 5 under <u>Section II – Description of the Water System</u> , divide the useful storage volume (million gallons) for maintaining distribution pressures above 20 psi by the MDD under emergencies. This is the amount of days water can be provided if storage was full before the start of the emergency.
	Using the water systems Maximum Daily Demand (MDD) listed in question 5 under <u>Section II – Description of the Water System</u> , divide the useful storage volume (million gallons) for maintaining distribution pressures above 20 psi by the MDD under emergencies. This is the amount of days water can be provided if storage was full before the start of the emergency. Number of days water can be provided before a state of emergency arises:

¹ The AWWA Drinking Water Dictionary defines useful storage as "water storage that is readily available for discharge into a distribution system, such as water in an elevated storage tank or in a ground storage tank that can be pumped into the system. Water in a ground storage tank below the suction level of the pump would be storage, but not useful storage".

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OPTION 10A: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING EMERGENCY INTERCONNECTS

The affected utility would be receiving water temporarily until natural disaster has passed.

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with an additional option depending on if the entire water system will be receiving water from the interconnect. An affected utility opens one or more emergency interconnects with other water systems that can provide water into different pressure zones of the affected utility requesting to use this option.

If Using Emergency Interconnects (normally closed) to provide water to your service area:

A. List water system(s) that will be providing your connections with water during an emergency, where the providing system obtains its water, and the number of connections that will be provided water.

PWS ID Number and Name		Id Name	Where does this system obtain its water?		Connections Served	
	В.	Provid	e the following infor	mation:		
			map of your distributionstem.	on system and highlight the ar	ea that will be provided v	water by a different water
		2. Is	the interconnect unde	r direct pressure or is it an air	gap into a storage tank	?
				reement or contract that clear our distribution system at 20ps		ystem agrees to provide
		List sto	orage tank(s) that have	e an air gapped interconnect?		
Plant Na	ame	(Needs	to match with listing	under Section II of EPP)	Storage Tank(s)	
	C.	Will bo	th water systems be	e using the same type of dis	infection?	YES NO
				emergency source contains a erations, provide the following		nan what the water systen
☐ YES		NO	Will the water syste	em use only the emergency so	ource during an emerger	ncy?
☐ YES		NO	Will the water syste will be isolated from	em modify their distribution sys	stem to ensure areas wit	th different disinfectants
☐ YES		NO	Does the water sys emergency?	etem currently have a valid exc	ception to blend chlorine	and chloramines in an
	D.			not the same for both water ange for health purposes?	-	the water system will
	E.			will have service maintaine		please provide nd complete that

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F. If water is delivered into a storage tank, please choose additional option(s) to ensure your utility can maintain 20 psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.

Please provide other option(s)

then complete that section of the EPP.

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OPTION 10B: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING WATER HAULER(S)

The affected utility would be receiving water temporarily until natural disaster has passed. Water is delivered to your service area using a water hauler and, you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option may need to be combined with another option if the water system cannot deliver water pressurized to 20 psi to the distribution system.

If using Water Hauler(s) to provide water to your service area:

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Α.	Provide documentation that the water hauler is ap	proved and registered to haul water by the TCEQ
Approved V	Water Hauler ID (Can be verified in Texas Drinking Water	ter Watch)
В.	List all water providers utilized by the water hauler provider to ensure compatibility with disinfection	
Water Prov	ider ID Ty	pe of Disinfection Used
С.	Explain how the water will be pumped from the wa	ter hauler into the storage tank?
D.	Which storage tanks will be filled by the water hau	ler?
Plant Name	(Needs to match with listing under Section II of EPP)	Storage Tank(s)
E.	Explain how the water will be pumped from the sto	orage tank into the distribution system?
F.	Will the water hauler be able to supply enough wa	ter to the distribution system in a timely manner?
	☐ YES ☐ NO	
G.	If only part of your system will have service maint information on what option applies to the rest of the	
	Please provide option(s) and complete that see	ction of the EPP.
H.	If water is delivered into a storage tank, please chemaintain 20 psi if your electrical provider fails to plasting longer than 24 hours.	
	Please provide another option(s) then complet	e that section of the EPP.

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OPTION 11: WATER SYSTEM HAS THE ABILITY TO PROVIDE WATER THROUGH ARTESIAN FLOWS

An affected utility can provide water using an approved artesian source to their distribution system at 20 psi during an extended power outage lasting more than 24 hours. This **will** need to be combined with another option if the water system is unable to ensure water is consistently treated and distributed at 20psi to your distribution system. It is the responsibility of the water system to plan for alternative sources of electric power should the water system be unable to consistently provide 20 psi of pressurized treated water to the distribution system.

A.	Please provide the well identification number of the approved artesian source: TX
B.	What is the flow of the source in GPM?
C.	How will the source water get treated and distributed consistently to the distribution system?
D.	How will pumps be powered?
E.	Please choose other option(s) to ensure your utility can continuously treat, disinfect, and pressure your system to 20 psi, if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours. You may not be required to provide an additional option if it can document that your utility can continuously treat, disinfect, and pressure your system to 20 ps if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.
	Please provide another option(s) then complete that section of the EPP.

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OPTION 12: REDUNDANT INTERCONNECTIVITY BETWEEN PRESSURE ZONES

An affected utility opens valves in one or more of their pressure zones to provide water at 20 psi throughout its distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option to ensure the system can provide 20 psi throughout its distribution system.

A. Explain how the water will flow to customers within one or more pressure zones, and how it will be replenished (with or without electricity)?

В.	Please provide the following:
	\square A map of your system delineating pressure planes, and show elevated tanks, elevation contours of each zone and isolation valves.
	☐ Provide useful storage of each elevated storage tank, see (Option 9 Question C-D and Diagram page 25).
	☐ A capacity report with details that show each pressure plane can provide 0.35 gpm per connection.
	Are there areas that will need inline booster pumps? If so, how will they be powered? Please provide a schematic of the connection.
C.	Please choose other option(s) to ensure your utility can continuously treat, disinfect, and pressurize your system to 20 psi, if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.
	Please provide your other option(s) then complete that section of the EPP.

D. A hydraulic study will be required if you are unable to demonstrate that your water system can maintain a minimum of 20 psi in distribution based on the information provided in Items A and B. For example, if elevation contour difference exceeds feet of useful storage or if water supply does not appear adequate for an electrical outage lasting more than 24 hours.

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OPTION 13: USE EMERGENCY WATER DEMAND RULES TO MAINTAIN EMERGENCY OPERATIONS

An affected utility will provide a minimum of 0.35 gallons per minute (gpm) per connection to the distribution system while maintaining distribution pressures of at least 20 psi in the event of the loss of normal power supply. This option **will** need to be combined with another option to ensure 20 psi during a water outage lasting more than 24 hours since just reducing water demand will not be adequate to provide water during an extended power outage.

A.		our customers that you have instituted your Drought Contingency utage? (e.g., Utility website, Social Media, Radio, TV, reverse 911, vision entrances)
B.		to ensure your utility can maintain 20 psi if your electrical provider power during an outage lasting longer than 24 hours.
	Please provide other option(s)	_ then complete that section of the EPP.
C.	Explanation and Authority	
	the system, etc., the (e.g. Place capability to conserve and restrict w (Drought contingency plan, rental a	eak, a system failure, or excessive consumption beyond the capacity of the NS name, owner name, owner representative, Operator, etc.) has the vater use based upon the local water system regulations found in greement, city ordinance, etc.). During times of drought or other f water, public notice of water use restrictions will be issued by: ner representative, operator, etc.).
D.	WATER RESTRICTION STAGES	N/A 🗌
	and the types of restrictions that will	ions that will be applied, the conditions that generally will trigger them I be applied. The conditions that trigger various restriction stages could levels and other conditions such as imminent loss of water or pressure
tion	Stage Trigger(s)	Restrictions

Restriction	Stage Trigger(s)	Restrictions
Stage		
I		
II		
III	 	

Not subject to disclosure under chapter 552, Government Code							

Not subject to disclosure under Chapter 552, Government Code

OPTION 14: ANY OTHER ALTERNATIVE DETERMINED BY THE COMMISSION TO BE ACCEPTABLE

An affected utility can propose other alternatives of meeting the requirements of TWC 13.1394 if the alternative(s) ensure water will be provided at 20 psi throughout the distribution system during a water outage lasting more than 24 hours.

A. The following methods would NOT be acceptable options

i. Evacuation

The EPP must show how you will provide water during an extended power outage caused by a natural disaster, not during the disaster when it is unsafe. The rule specifically states the water is to be provided after it is safe and practicable. The people who are evacuated may return when it is safe to do so after the disaster has passed, but before power is returned to your water system. In the case, of the most recent winter storm power was not restored for several days. You must be able to provide water after the disaster, but before normal power is restored.

ii. Providing bottled water

The EPP must show how you will provide water at 20 psi at each of your customer's connections.

iii. Relying on your provider **without** the documentation that states the provider will provide your system with 20psi throughout your distribution system.

B. Alternative Description

Describe the alternative and how it will provide 20 psi throughout your distribution system:	
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	١
	١
	1
	1
	-

Not subject to disclosure under Chapter 552, Government Code

Section V – Emergency Communications

Emergency Communications are an essential part of an emergency response event. Knowing who to notify before an emergency event occurs is the best way to ensure that you, your system, and your customers receive needed emergency assistance. Many numbers have been provided to assist you with completing this portion of the plan. Please feel free to make copies of the pages in Section IV to post at your facility and/or to train your employees.

If the Organization is not applicable to your utility, please enter **N/A**. You are required to provide phone numbers for your County Judge and County Sheriff's Office.

If you are a member of another mutual aid organization other than TXWARN please include them on this list.

A. Emergency Contacts

Organization	Phone Numbers (include area code)		E-Mail or Website		
	Day	Evening			
Fire Department	911	911	fairmountfirerescue@gmail.com		
Police Department	911	911	http://www.co.sabine.tx.us		
Emergency Medical Service	911	911	http://sabinecountyems.org		
TCEQ Water Homeland Security	888/777-3186	888/777-3186	homeland@tceq.texas.gov		
Texas PUC	512/936-7405		http://www.puc.texas.gov/industry/water/utilities/fmt.asp x Email: water@puc.texas.gov		
National Response Center	800/424-8802	800/424-8802	http://nrc.uscg.mil/Default.aspx		
State Spill Hotline	800/832-8224	800/832-8224	https://www.tceq.texas.gov/response/spills		
Poison Control	800/222-1222	800/222-1222	http://poisoncontrol.org/home/		
CHLOREP (Chlorine Emergency Plan)	800/424-9300	800/424-9300	https://www.chlorineinstitute.org/emergency- preparedness/chlorep/		
TCEQ Regional Office	24-hour cell phone	e 512/965-2717	Website: https://www.tceq.texas.gov/agency/directory/region/region/regist.html		
County Judge	409-7873543		Email: cookie.cryer@co.sabine.tx.us Website:		
County Office of Emergency Management	409-7873570 409-7875241		Email:http://co.sabine.tx.us/page/sabine.emergency Website:		
County Sheriff's Office	409-787-2266		Email:http://co.sabine.tx.us/page/sabine.sheriff Website:		
County Public Health & Environmental Services	409-746-3284		Email:esd@sratx.org Website:		
City Mayor's Office	409-787-2251		Email: cityhall@cityofhemphill.com Website:		

Organization	Phone Numbers (include area code)		E-Mail or Website
	Day Evening		
Local Public Health & Environmental Services	409-746-3284		Email esd@sratx.org Website:
Local Office of Emergency Management	409-787-3570 409-787-5241		Email: http://co.sabine.tx.us/page/sabine.emergency Website:
TX Division of Emergency Management (TDEM)	Provides list of State and District Coordinators which assist local officials with state assistance requests. Requests must start at local level first.		https://tdem.texas.gov/field-response/
TXWARN	866/9-TXWARN (866/989-9276)		Email: info@txwarn.org https://www.txwarn.org
Other Mutual Aid Provider			Email: Website:

B. Local Contact Notification List

Identify those entities that should be notified in the event of an extended power outage requiring emergency operations. These are people who you provide water to that you may need to contact during an emergency.

Organization	Contact	Title	Phone Nu	E Mail		
Organization	Name	Title	Day	Evening	Cellular/Pager	E-Mail
Other Local						
Government						+
Officials						
Hospitals served						
by the Affected						
Utility						
Nursing Homes						
served by the						
Affected Utility						
Pharmacies						
Priority Water		CONTRACTOR				
Users (Those						
that are critically						
dependent upon						
water including						
schools, dialysis						
centers,						
institutions,						

Organization	Contact	Title	Phone No	Phone Numbers (include area code)				
Organization	Name	Title	Day	Evening	Cellular/Pager	E-Mail		
individuals with special needs, businesses, and other interconnected water systems, etc.)								
Others								

C. Chemical Supplier Information

Identify your Chemical Suppliers. You may need to contact them for more chemicals during an emergency

Chemical	Supplier	Contact Name	Phone Number Day	Phone Number Evening	Cell Phone	E-Mail

D. Certified Laboratory Information

Identify your laboratory and a backup laboratory. You may need a backup laboratory if your lab is nonfunctional.

			Phone Nun	Phone Numbers (include area code)				
Organization	Contact Name		Day	Evening	Cellular/Pager	E-Mail		
Sabine River Authority orange tx			409-746- 2192			ago@sratx.org		
Angelina River Authority Lufkin TX			936-632- 7795			info@anra.org		

E. Fuel Supplier Contact Information (if applicable)

Identify your Fuel Suppliers. You may need to contact them for fuel during an emergency

Fuel Type	Supplier	Contact Name	Phone Number Day	Phone Number Evening	Cell Phone	E-Mail
Propane	Sandifers LP		409-963-			contactus@sandiferslp.com
	gas		1269			

F. Utilities Contact Information

Identify your Utilities Contacts. You may need to contact them during an emergency and use **N/A** if a listed organization does not apply to your water system.

				Phone Numbers (include area code)			
Organization	N/A	Contact Name	Title	Day	Evening	Cellular/Pager	E-Mail
Electric Utility Company	Deep Eastex			800392- 5986			power@deepeast.com
Gas Utility Company							
Sewer Utility Company							
Telephone Utility Company	Windstream			800- 392- 5986			
Wholesale Water Provider							
Wholesale Water Provider	South Sabine WSC	Ronald Clark	Manager	409- 579- 4185			sswsc@valornet.com
Other							

G. Bulk Water Suppliers

Identify any bulk or bottled water suppliers that you might utilize in an emergency.

Organization	E-Mail
ulk Water aulers	
ottle Water ources	
ources	

H. Media Notification List

Identify the media organizations that you might need to contact to provide information to your customers. Also identify who is your media spokesperson. If you have a different method to communicate to your customers, please list under **Other**.

Organization	Contact Name	Title	Day	Evening	Cellular/Pager	E-Mail
Designated Water System Spokesperson						
Newspaper - Local	Sabine County Reporter		409-787- 2172			screporter@yahoo.com
Newspaper – Regional State						
Radio						
Television						
Other						

ATTACHMENT A - SUBMITTING COMPLETED EPP

Upon completing your EPP please email or mail (<u>not both</u>) the completed form and additional documentation needed to the Texas Commission on Environmental Quality for review and approval to:

Choose One

PDWEPP@tceg.texas.gov

OR

Water Supply Division, Emergency Preparedness and Response Section, MC-155 P.O. Box 13087
Austin, TX 78711-3087

Assistance

If you need assistance with completing the EPP template, please fill out the **EPP Help Form at** www.tceq.texas.gov/goto/epp-help and TCEQ will contact you via email or phone to provide assistance.

Approved Plan Distribution

Completer this section after the approval letter is received from TCEQ. Please maintain appropriate documentation of compliance with plan distribution requirements. In addition, a copy of the approved plan must be maintained by the "affected utility", so that it can be easily accessed in the event of an emergency. All employees must receive annual training on implementation of the plan.

Copies of the approved Emergency Preparedness Plan and the TCEQ Approval Letter must be distributed to the following entities:

Distributed To	Method of Distribution	Date
County Judge		
County Office of Emergency Management		
Public Utility Commission Filing	Use the weblinks provided: For Confidential filing procedures for the PUC use Docket No. 52272 1. http://puc.texas.gov/industry/filings/Confidential.aspx For PUC Procedural Rules for Filing of Pleadings, Documents, and Other Materials	
	http://puc.texas.gov/agency/rulesnlaws/procrules/pre/22.71/22.71.pdf Address: Public Utility Commission of Texas Central Records 1701 N Congress PO Box 13326	

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	Austin, Texas 78711-3326	
	For additional questions contact the PUC Central Records office at (512)936-7180.	
	Office at (512)930-7 100.	
Texas Division of	Submit to TDEM via email at: soc@tdem.texas.gov	
Emergency	Address:	
Management (TDEM)	Texas Division of Emergency Management	
	Attn: State Operations Center	
	1033 La Posada, Ste 300	
	Austin, Texas 78752	
	For additional questions contact the TDEM (512)424-2208	

ATTACHMENT B – Generator Information

If you plan on utilizing options 1, 2, 4, 5, or 6, you will need to estimate the gallons per hour of fuel that will be used by the generator. This is essential in determining the volume of fuel required to maintain emergency operations. Below is a chart from the FEMA Resource Typing Manual which may be of assistance in determining fuel needs and generator types. **Supplemental information only.**

			RESOURCE: GI	ENERATORS			
Category:	Public Works & Engineering (SEF 3) Kind: Equipment						
Minimum Cap	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Type I	Type II	Type III	Type IV	Type V	
Component	Metric						
Equipment KW 2		x02000 2000 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 3015 Amps@ 480 Volts, 3 Phase, 60 Hz; Dry weight 89,000 lbs; Fuel tank capacity 1250 Gallons; Dimensions 40' Long x 8' Wide x 13'.5' Tall; Potential application example—Single or multiple units for: Power plants, heavy industrial facility, highrise buildings; Setup time (cables from generator to main power feed estimated at 5+ hours)	XQ1500 1500 kW Generator, Sound attenuated; Trailer mounted (semi tractor); Up to 2260 Amps@ 480 Volts, 3 Phase, 60 Hz; Dry weight 59,000 lbs; Fuel tank capacity 1250 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application example—Single or multiple units for: Universities, hospitals, medium to large manufacturing facility; Setup time (cables from generator to main power feed estimated at 5+ hours)	XQ600 600 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 2080 Amps@ 208 Volts, 3 Phase, 60 Hz / up to 902 Amps@ 480 Volts 3 Phase, 60 Hz, Dry weight 37,000 lbs; Fuel tank capacity 660 Gallons; Dimensions 40' Long x 8' Wide x 13.5" Tall; Potential application examples: Retail stores, HVAC system power, multi-story/buildings, light manufacturing, apartment buildings; Setup time (cables from generator to main power feed estimated at 3+hours)	XQ400 400 kW Generator; Sound attenuated; Trailer mounted (pull behind); Multi-voltage distribution panel; Up to 1390 Amps @ 208 Volts, 3 Phase, 60 Hz/up to 602 Amps@ 480 Volts 3 Phase, 60 Hz; Dry weight 16,800 lbs; Fuel tank capacity 470 Gallons; Dimensions 23' Long x 8'.5' Wide x 11' Tall; Potential application example: Large office building, public schools, libraries, and communication equipment. Setup time (cables from generator to main power feed estimated at 2+ hours)	attenuated; Trailer mounted (pull behind); Multi-voltage (pull behind); Multi-voltage distribution panel; Up to 433 Amps@ 208 Volts, 3 Phase, mps@ 480 Hz; Dry 480 Volts 3 Phase, 60 Hz; Fuel tank Dry weight 10,610 lbs; Fuel tank capacity 223 Gallons; Dimensions 18'.5" Long x 6'.5" Wide x 9' Tall; Potential application example: Small office building, emergency mobile trailers & operations, restaurants. Setup time (cables from gower feed urs)	
Comments:	approximately i	ternal fuel tanks available. Fuel con 7 gallons per hour). Technicians are ach cable. Fuel supply, and/or fuel v	available for hookup and monito	ring of equipment. 4/0 Quick con	nect (Cam-Lock) cable is availab	le for tie-in to power feed, rate	
	XQ2000	í	XQ1500	XQ600-400		XQ125	
		TITLE -	CAT CAT	AQ000-400		PAT- BAT	
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ATTACHMENT C - RECOVERY CHECKLIST - Supplemental Information Only

Returning to normal operations is vital to rapid restoration of clean, safe water to the community and is essential to the assessment and recovery process. The following is a checklist of actions to be taken during the recovery period. Also included is a preliminary damage assessment that can be used to assist in the recovery process.

Assessment and Recovery Period Checklist Perform in-depth damage assessment of system to determit form below).	ne long-term effects of damaged areas (use assessment			
☐ Notify TCEQ of system operational status and situation.				
☐ Will there be a need to use mutual aid agreements and/or implement standby contracts or other emergency agreements for equipment and operations?				
Prepare written documentation of emergency work performed for possible compensation by emergency agencies. Make sure that crews make a record of work effort, written logs (see Work Order Log) and take pictures. This will all be helpful in recovery of funds.				
\square Notify appropriate insurance carriers. Provide written and photo documentation of damage.				
Assist in the survey of emergency repairs and scheduling of permanent repairs.				
$\hfill \square$ Servicing of emergency equipment, when able (oil changes	lubrication, etc.).			
☐ Make sure the public is kept informed throughout the extent of the emergency.				
Preliminary Damage Assessment Following the Damage Assessment, you should notify TCEQ or	f your operational status.			
A. General Overview:	☐ Broken inlet/outlet pipes, underdrains			
☐ Determine need to repair, replace, or abandon facilities	☐ Landslides or Embankment slump			
☐ Estimate cost to repair damage	☐ Buckling			
Evacuate buildings in danger of collapse	F. Distribution System:			
B. Treatment Plants:	Check for: ☐ Leaks			
☐ Check if power is available and condition of mechanical and electrical equipment	Breaks			
Check for chemical spills or releases	☐ Pressure loss in lines			
C. Confirm that field crew does the	☐ Cross-connections			
following:	☐ Check mechanical couplings			
Check for structural damage	Lower water levels to reduce possibility of structural			
Closes and tags damaged facilities and equipment	damage			
D. Tanks:	G. Wells:			
Check for evidence of failure of subbase	Check for physical damage to facilities			
E. Reservoirs:	☐ Test for contamination			
Check for:	☐ Name, address, phone # for private lab			
Leaks and Seepage	☐ Check for pump or motor failure			
Cracks	☐ Check power source			

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ATTACHMENT D – State Assistance Request (Supplemental Information Only):

If an affected utility is interested only in mutual aid assistance, register with TXWARN at https://www.txwarn.org/; this is a free service.

When requesting state assistance, the request(s) must start at the local level with the County Judge or the County Emergency Manager. The request must go to the <u>Texas Division of Emergency Management</u> using the steps outlined in the STAR Process.

