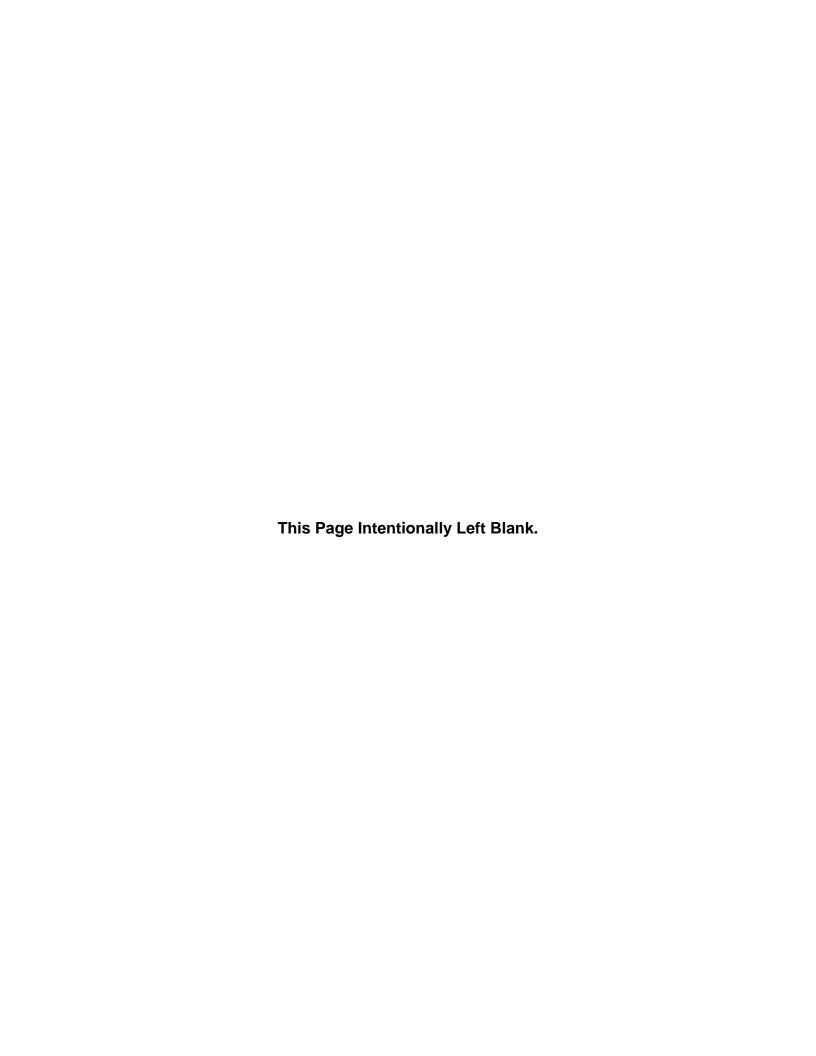
### Brazoria County Groundwater Conservation District Groundwater Management Plan 2022 Annual Report



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### I Introduction

accordance with the Brazoria County Groundwater Conservation District's ("District") Groundwater Management Plan (BCGCD, 2017), the General Manager of the District each year prepares and submits an Annual Report to the District Board of Directors providing an update on the District's performance in achieving the contained management goals in the Groundwater Management Plan. In addition to summarizing efforts to address groundwater management goals, the Annual Report includes a copy of the annual audit of District financial records. The Annual Report is presented to the Board of Directors within ninety (90) days following the completion of the District's Fiscal Year (FY). The District maintains a copy of the Annual Report on file for public inspection at the District offices, upon adoption by the Board of Directors. The following sections summarize the District's performance in achieving management goals. In 1997, the 75th Texas Legislature passed Senate Bill One (SB1).

### **BCGCD** at a Glance:

- Created in 2003 by the Texas Legislature to manage and protect groundwater resources in Brazoria County
- Five Directors elected to 4-year terms by the voters of the county.
- Manages groundwater through a system of permitting and registrations, well metering, well spacing requirements, and other rules on well development.
- Protects water quality through inspection of new well construction and owner plugging of abandoned wells.
- Expands local groundwater knowledge through cooperative water level monitoring, subsidence measurements, and studies of groundwater use.
- Engages in joint groundwater planning with surrounding districts through Groundwater Management Area 14.

### **II** District Information

The District is located in Brazoria County, Texas, and its boundaries are the same as the area and extent of the county. The District was created in September 2003 by HB 4114 of the 78th Texas Legislature, as recorded in Section 2, Chapter 772, Acts of the 78th Texas Legislature. The District was confirmed by a local election held in Brazoria County on November 8, 2005, with 56.35 percent of the voters in favor of the District. The District derives its authority to manage groundwater within the District by virtue of the powers granted and authorized in the District's enabling act and subsequent amendments. The District exercises the power that it was granted under the authority of the enabling legislation, and with voter approval, and assumes all the rights and responsibilities of a groundwater conservation district specified in Chapter 36 of the Texas Water Code. The District Board of Directors is composed of five members elected to staggered four-year terms. Four directors are elected from county precincts and one director is elected atlarge. All meetings of the Board of Directors are public meetings, subject to public notice, and held in accordance with all public meeting requirements.

### **III** Management Goals

### III.A Providing the Most Efficient Use of Groundwater 31 TAC §356.52(a)(1)(A) and TWC §36.1071(a)(1)

### A.1 Permitting System

<u>Objective</u> - Each year, the District will regulate the production of groundwater by maintaining a system of permitting the use and production of groundwater within the boundaries of the District in accordance with District Rules and will require registration or permitting of all new wells within the boundaries of the District.

<u>Performance Standard</u> - The District has registered 530 exempt wells during FY 2022. These registrations apply to wells exempted by District Rules that would otherwise require a permit. Mappable exempt wells are shown in *Exhibit 1* of this document. The District issued new permits for 67 wells during FY 2022. Permitted wells with recorded geographic data are also shown in *Exhibit 1* of this document.

 Type of Registration
 Registered
 Percent

 Single-family Residential
 501
 94.5%

 Agricultural
 20
 3.8%

 Industrial / Other\*
 9
 1.7%

 TOTALS
 530
 100.0%

Table 1. Registrations of Exempt Wells in FY 2022

**Applications Received Permits Type of Permit** Percent **Existing** New Issued\* Total Wells Wells Commercial 22 19 41 35 52.2% 17 Industrial 1 16 12 17.9% 0 12 **Public Water Systems** 12 8 11.9% Other 0 13 13 17.9% 12 60 **TOTALS** 23 83 67 100.0%

Table 2. New Permits Issued in FY 2022

### **A.2 Production Monitoring**

<u>Objective</u> - Each year, the District will monitor production from the permitted wells within the boundaries of the District.

<u>Performance Standard</u> – The District requires metering of permitted wells and reporting of metered production to the District. In conjunction with this requirement, since FY 2017 the

<sup>\*</sup>Includes industrial or other wells exempted from permitting by District Rules, including oil and gas rig supply wells and wells used for monitoring, injection, dewatering, leachate recovery, and other similar exempted purposes.

<sup>\*</sup>Includes all permits approved as presented or with conditions during FY 2022. New permits are not reported in the BCGCD database until all conditions have been met.

District has utilized a fee structure based on permitted pumpage to more closely align requested permit volume with actual production. Permit holder reporting of pumpage for FY 2022 is ongoing. For FY 2021, reported groundwater production by permitted wells in the District was 10,271,189,034 gallons, or approximately 31,521 acre-feet.

### A.3 Activity Report

<u>Objective</u> - Each year, the District will receive an update from the District's inspector or other representative summarizing activities undertaken to promote compliance with the District's permitting requirements.

<u>Performance Standard</u> – The District's Field Operations Coordinator continues to actively identify existing, unpermitted wells that should have been permitted and follows through on permitting compliance. The coordinator also performs meter verification inspections to verify the integrity of the meter and readings. During FY 2022, the coordinator identified a number of occurrences of non-compliance with District Rules, including 12 existing non-exempt wells which were unpermitted and an additional three permitted wells which were not equipped with a meter. Appropriate steps were taken by the District to bring these wells into compliance with District Rules regarding permitting and metering.

### III.B Controlling and Preventing Waste of Groundwater 31 TAC §356.52(a)(1)(B) and TWC §36.1071(a)(2)

### **B.1** Rule Review

<u>Objective</u> - Each year, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District.

<u>Performance Standard</u> – The District discussed options for potential rule changes in conjunction with a number of agenda items during public meetings of the District Board of Directors. The Board of Directors did not approve amendments to District Rules or the Administrative Fee Schedule during FY 2022.

### **B.2 Public Information Regarding Reducing Waste**

<u>Objective</u> - Each year, the District will provide information to the public on eliminating and reducing wasteful practices in the use of groundwater by including information on groundwater waste reduction on the District's website.

<u>Performance Standard</u> - The District website provides links to references regarding waste reduction and water conservation, including a brochure detailing indoor waste reduction and water conservation practices as shown in *Appendix A* of this report.

### III.C Controlling and Preventing Subsidence 31 TAC §356.52(a)(1)(C) and TWC §36.1071(a)(3)

### **C.1** Joint Conference

<u>Objective</u> - Each year, the District may participate in a joint conference with the neighboring Groundwater Conservation or Subsidence Districts focused on sharing information regarding subsidence and the control and prevention of subsidence through the regulation of groundwater.

<u>Performance Standard</u> - During FY 2022, the District continued its participation with surrounding Groundwater Conservation and Subsidence Districts as part of the efforts associated with Groundwater Management Area 14 (GMA 14). This has included extensive coordination on the development of new DFC metrics which include goals for both remaining available drawdown and for limiting additional subsidence.

### **C.2 Public Information Regarding Subsidence**

<u>Objective</u> - Each year, the District will provide one article on the District's website to educate the public on the subject of subsidence.

<u>Performance Standard</u> - The District website provides references on subsidence, including links to information from the Harris-Galveston Subsidence District as well as educational presentations on subsidence provided by the Lone Star Groundwater Conservation District and included in *Appendix B* of this report.

### C.3 PAM Monitoring

<u>Objective</u> - Each year, the District will maintain Periodically Active Monitoring (PAM) subsidence monitoring locations within the District boundaries and may pursue installation of additional PAM subsidence monitoring locations.

<u>Performance Standard</u> - The District has partnered with Harris-Galveston Subsidence District (HGSD) to expand the regional subsidence monitoring network. Under an Interlocal Agreement between the District and HGSD, 15 PAM sites have been installed in Brazoria County for the purpose of gathering data on land elevations and subsidence. These PAM sites are in service, expanding upon other subsidence monitoring efforts within the county and increasing the available information regarding local subsidence. The locations of the 15 PAM sites installed to date are shown in *Exhibit 2* of this document.

### C.4 Subsidence Evaluation

<u>Objective</u> - At least once every two years, the District will request data from relevant entities on subsidence measurement data or summary information, including information for PAM subsidence monitoring locations within the District boundaries.

<u>Performance Standard</u> - During FY 2021, the District performed an assessment of subsidence data from the local PAM network and other subsidence monitoring locations within Brazoria County. Land surface elevation measurements from the District's PAM

network were available from 2016 to present for the original seven sites, with the remaining seven sites available from 2019 to present. Although data for this limited period of record appears to indicate some net subsidence, ranging from an elevation decrease of 0.63 inches to an increase of 0.5 inches since 2016, observations fluctuated considerably between measurements. The high variability and short observation period preclude the inference of an average rate of subsidence until more data is available. Data were also available for five other monitoring locations in the county, which are maintained by the U. S. Coast Guard, SmartNet North America, Texas Department of Transportation, and HGSD; these sites have longer periods of record with more frequent measurement intervals. Long-term measurements near Pearland and southwest of Rosharon do indicate a long-term slight downward trend in land surface elevation. The District anticipates undertaking a similar evaluation in FY 2023.

### III.D Conjunctive Surface Water Management Issues 31 TAC §356.52(a)(1)(D) and TWC §36.1071(a)(4)

### **D.1 Surface Water Coordination**

<u>Objective</u> - Each year, the District will participate in the regional planning process by attending, as able, the Region H - Regional Water Planning Group meetings to encourage the development of surface water supplies to meet the needs of water user groups in the District.

<u>Performance Standard</u> – The General Manager of the District was not able to attend the Region H Water Planning Group Meetings during FY 2022. However, the General Manager coordinated with Planning Group representatives and consultants to discuss Planning Group activities.

### III.E Natural Resource Issues That Affect the Use and Availability of Groundwater or are Affected by the Use of Groundwater 31 TAC §356.52(a)(1)(E) and TWC §36.1071(a)(5)

### E.1 Salt Water and Waste Disposal Wells

<u>Objective</u> - Each year the District will query the Texas Railroad Commission database to determine if any new saltwater or waste disposal injection wells have been permitted by the Texas Railroad Commission to operate within the District.

<u>Performance Standard</u> - The District has received data from the Texas Railroad Commission identifying the location of existing saltwater or waste disposal injection wells within the District. This data is attached in *Appendix C* and is mapped in *Exhibit 3* of this document. Based on the information provided, no wells were newly developed for injection use or converted from another use to injection since the end of FY 2021. Four previously permitted injection wells were converted to other uses.

### **E.2 Groundwater Quality Evaluation**

<u>Objective</u> - Each year, the District will evaluate available data regarding the aquifers of the District and the quality of groundwater within the District.

<u>Performance Standard</u> - Although the District does not currently maintain an independent groundwater quality monitoring network, the District does support and partially fund ongoing research efforts in Brazoria County by the United States Geological Survey (USGS). At the District meeting on January 13, 2022, the Board of Directors approved the Fiscal Year 2022 Joint Funding Agreement with USGS for water resource investigations.

### E.3 Activity Report

<u>Objective</u> - Each year, the District will receive an update from the District's inspector or other representative summarizing activities undertaken to protect groundwater quality.

<u>Performance Standard</u> - The District continues to consider procedures to address open, deteriorated, and/or abandoned wells in Brazoria County. The District's Field Operations Coordinator performs periodic spot inspections of permitted wells to monitor well construction and operating conditions and verifies plugging of replacement wells. The coordinator performed 50 site inspections of permitted wells during FY 2022 and verified 75 wells that were plugged when replacements were drilled. In addition to field activities, the District website provides links to references with information on disinfecting private wells and decontamination of flooded wells.

### III.F Addressing Drought Conditions

31 TAC §356.52(a)(1)(F) and TWC §36.1071(a)(6)

### F.1 Drought Monitor

<u>Objective</u> - Each month, the District will check for the periodic updates to the Drought Monitor (http://droughtmonitor.unl.edu/).

Performance Standard – Conditions in Brazoria County ranged from normal (non-drought status) to extreme drought during FY 2022, with normal conditions in October and November 2021, followed by alternating abnormally dry and moderate drought conditions for several months. By April 2022, the majority of the county was in severe drought, with some portions of the county shortly thereafter reaching extreme drought status; by August 2022, the entire county was classified as being in extreme drought. Cooling temperatures and some rainfall occurred, with conditions in the county improving to abnormally dry to moderate drought conditions by September 2022. The District monitored the status of drought conditions in the District and prepared regular briefings to the Board of Directors. Individual monthly drought maps are presented in *Appendix D*.

### III.G Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, or Brush Control Where Appropriate and Cost Effective 31 TAC §356.52(a)(1)(G) and TWC §36.1071(a)(7)

### **G.1 Public Information Regarding Water Conservation**

<u>Objective</u> - Each year, the District will provide one article or a link to an article on the District's website regarding water conservation.

<u>Performance Standard</u> - The District website provides links to several references on water conservation practices and related topics, including a brochure detailing indoor waste reduction and water conservation practices as shown in *Appendix A* of this report.

### **G.2** Public Information Regarding Rainwater Harvesting

<u>**Objective**</u> - Each year, the District will provide one article or a link to an article on the District's website regarding rainwater harvesting.

<u>Performance Standard</u> - The District website provides a link to the Texas Water Development Board's Texas Manual on Rainwater Harvesting, which provides extensive information on rainwater harvesting system components, water quality, system sizing, and other considerations. The District website also includes links to a number of other local and state regulatory and water management entities which include additional educational materials on rainwater harvesting, water conservation, and other information on responsible water use.

### III.H Addressing in a Quantitative Manner the Desired Future Condition of the Groundwater Resources

31 TAC §356.52(a)(1)(H) and TWC §36.1071(a)(8)

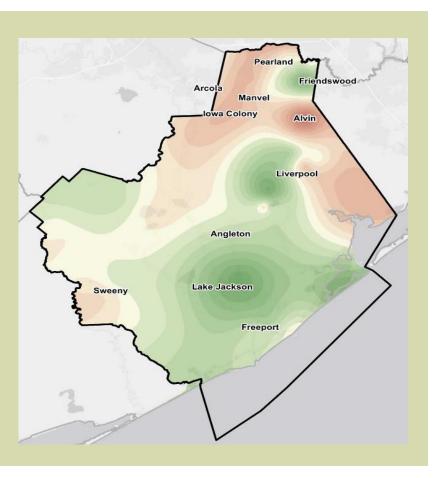
### H.1 Strategic Initiatives

<u>Objective</u> - In order to facilitate District operations and achievement of management goals, the District may undertake strategic initiatives such as evaluation of historic use, establishment of permit limits, model evaluations, or other studies or programs.

Performance Standard – During FY 2021, the District performed an evaluation of subsidence and water level change relative to projected results consistent with Desired Future Condition (DFC) achievement within Brazoria County, as described in Sections C.4 and H.2 of this report. The District anticipates undertaking similar analyses in FY 2023 and beyond. During FY 2021, the District also performed an evaluation of estimated groundwater production from users exempt from permitting and pumpage requirements, such as agricultural irrigation, livestock production, certain mining water uses, and exempt single family residential wells. This study provides valuable context for examining permitted and total groundwater production relative to modeled long-term average groundwater production consistent with DFC achievement.

### H.2 Water Level Evaluation

<u>Objective</u> - At least once every two years, the District will examine water level data for the Chicot Aquifer and Evangeline Aquifer from the USGS monitoring well network, the TWDB groundwater database, or other data sources.



Performance Standard - During FY 2021, the District performed an evaluation of water levels and water level change relative to projected results consistent with Desired Future Condition (DFC) achievement within Brazoria County. Water level changes from 2009 to 2020 were compared with changes projected by the Groundwater Availability Model that was used to produce long-term drawdowns consistent with the DFCs set by GMA 14 as part of the Joint Planning Process. Based on the available water level data, the analysis of observed water level changes and modeled values suggests that aguifer response in Brazoria County since year 2009 is consistent with achievement of the DFCs. The District evaluation also identified specific locations with higher rates of drawdown which may warrant more frequent examination in future analyses. The District anticipates undertaking a similar evaluation in FY 2023.

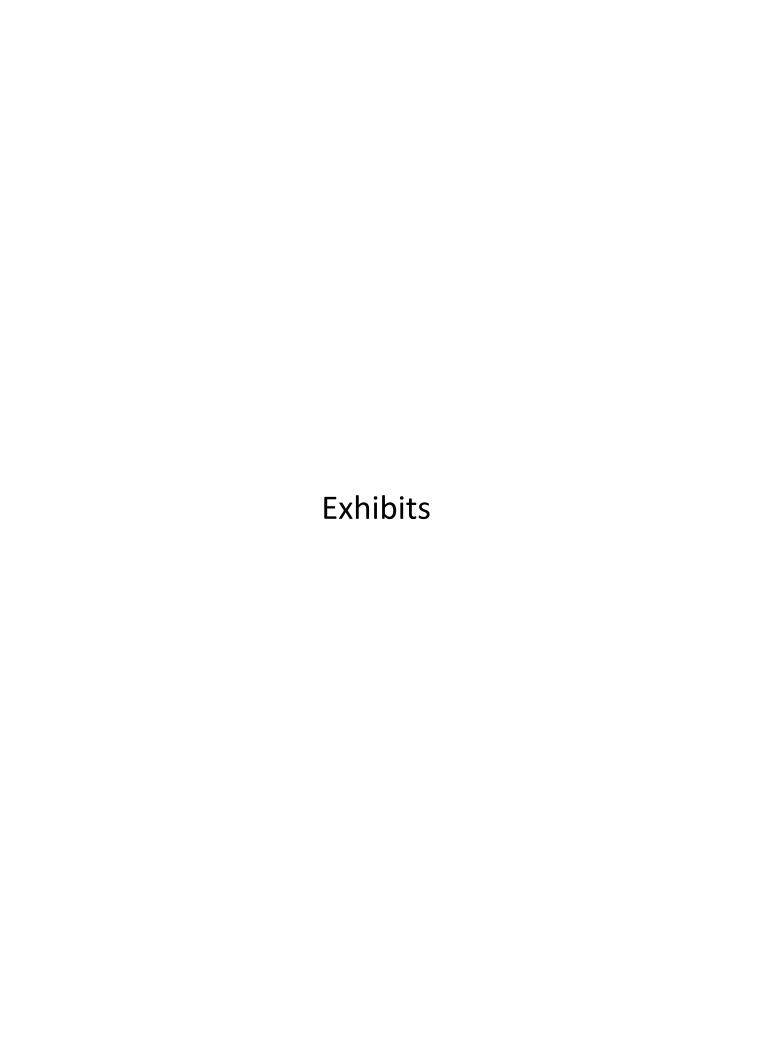
### H.3 Rule Review

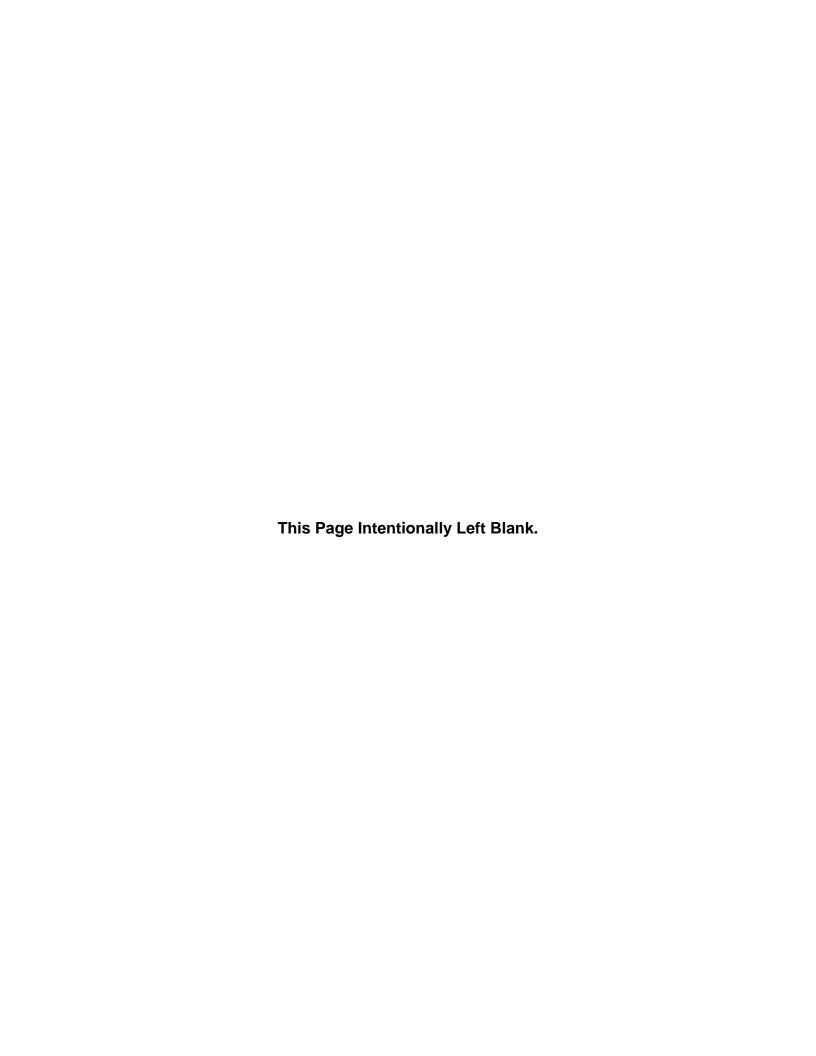
<u>Objective</u> - At least once every two years, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to support achievement of the DFCs adopted by the District.

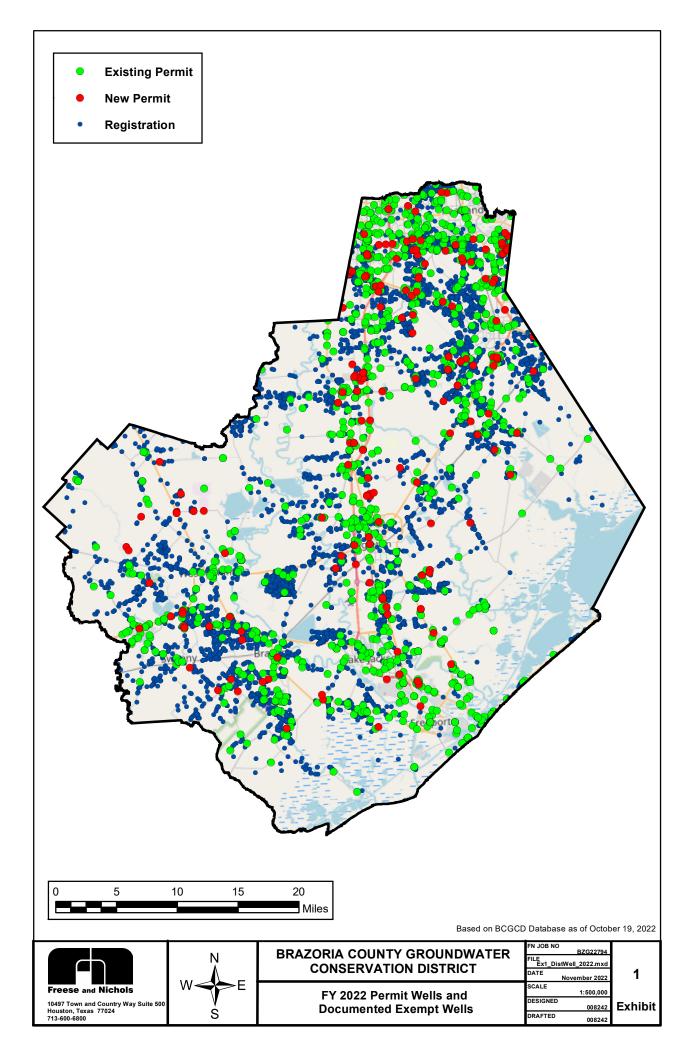
<u>Performance Standard</u> - The District discussed options for potential rule changes in conjunction with a number of agenda items during public meetings of the District Board of Directors, but no amendments were recommended related to achievement of DFCs adopted by the District. The District will re-evaluate District Rules during FY 2023 to determine whether any new amendments are recommended to support achievement of the DFCs adopted by the District.

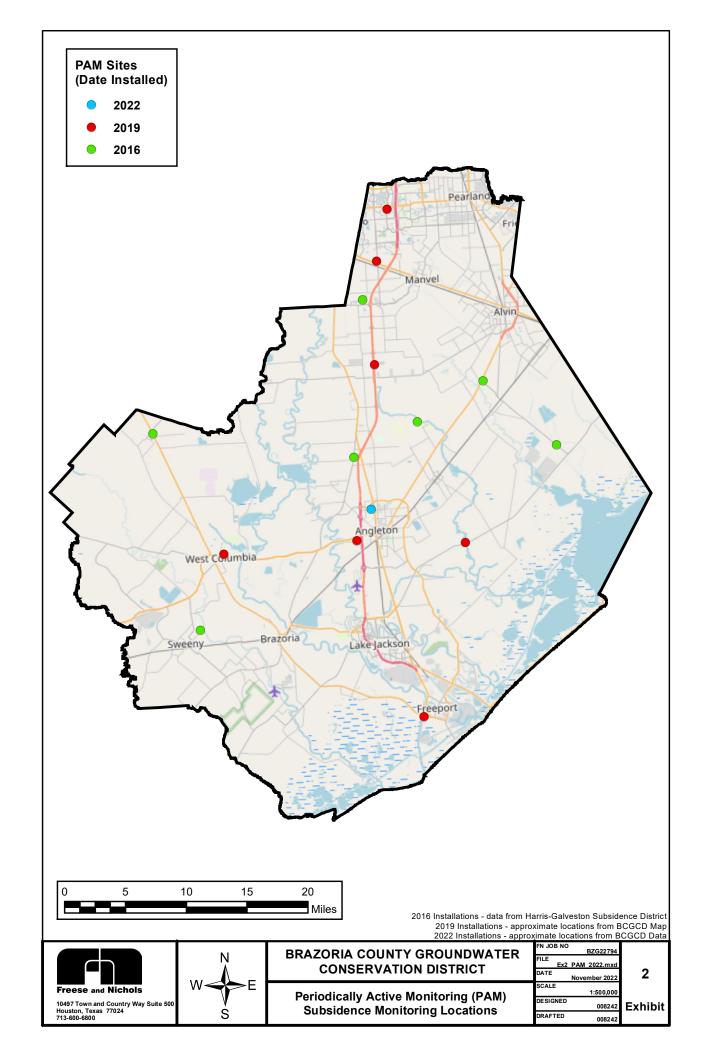
### IV Annual Audit of District Financial Records

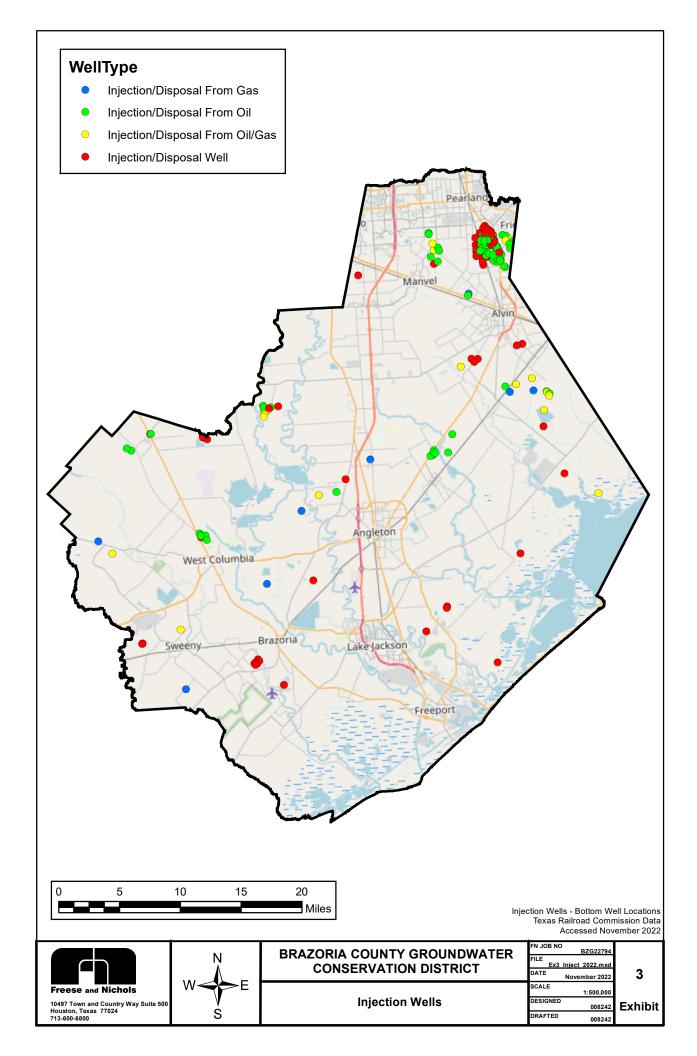
A copy of the FY 2020 annual audit of the District financial records is included as *Appendix E* of this report. The FY 2022 audit will be completed in early 2023 and will be included in the next Annual Report for the District.

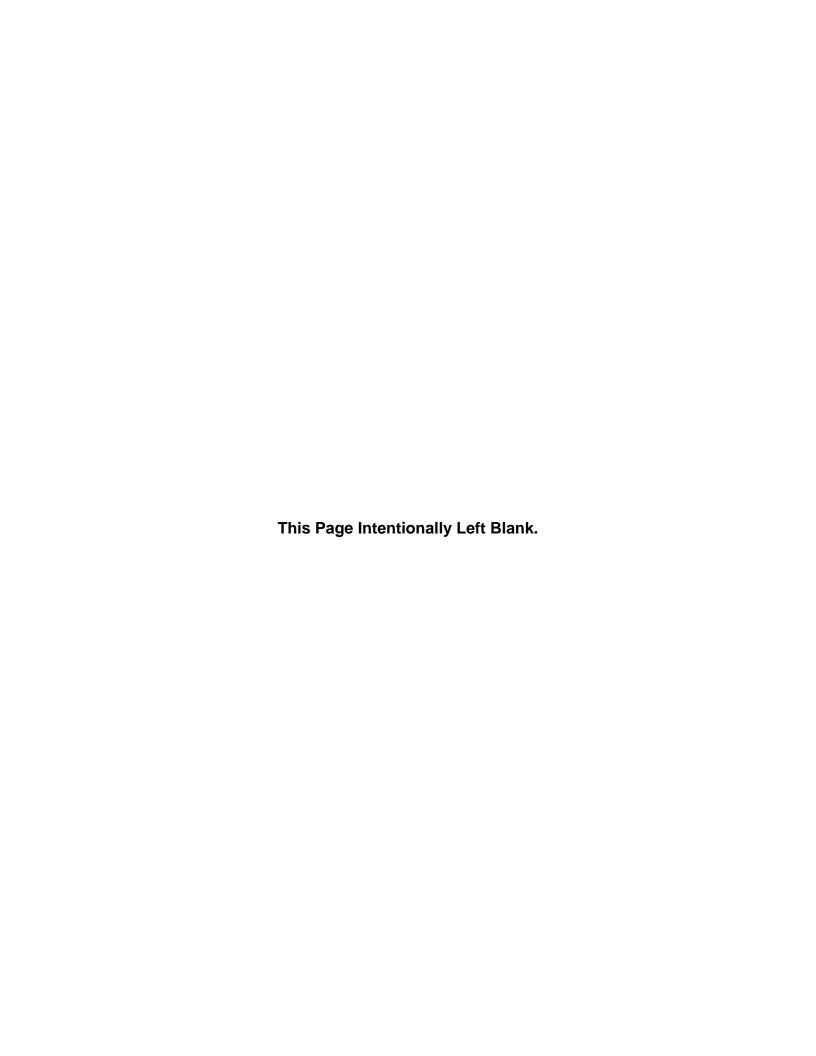




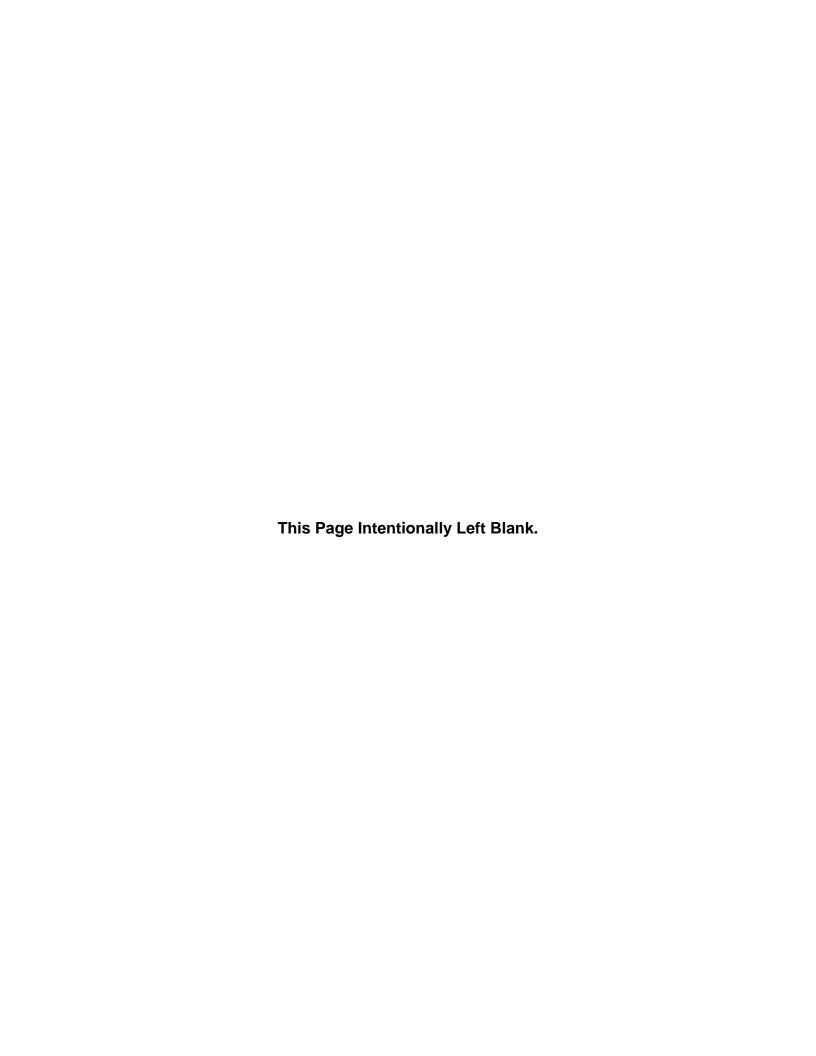








### Appendix A Public Information Provided by the District Regarding Reducing Waste



# PRACTICE GOOD WATER-USE HABITS

### Kitchen

- Dry scrape dishes instead of rinsing them, and do not pre-rinse dishes if you are using the dishwasher.
- Run the dishwasher with a full load to save water, energy, detergent, and money.
- If your machine has a "quick wash" or "light duty" cycle setting, use it!
- Fill a basin or the sink with soapy water instead of letting the water run continuously when washing dishes by hand. Soak pans rather than scrubbing them while the water is running.
- Rinse produce in a pan of cold water instead of letting the water run.
- Transfer frozen foods to the refrigerator to defrost the night before you need them instead of letting
- water run over them.

  Keep a container of water in the refrigerator rather than running tap water until it is cool enough to
- Limit the use of garbage disposals and consider composting.

### Laundry room

- Wash only full loads.
- Match the load setting with the amount of laundry to be washed if you must wash partial loads.
- Use the shortest wash cycle for lightly soiled loads as it uses less water than other cycles.



### Bathroom

- Use only as much water as you really need, and turn the water off when you aren't using it.
- Never use your toilet to dispose of trash.

Texas Water Development Board

www.twdb.texas.gov
P.O. Box 13231
Austin, Texas 78711-3231

- Run water just to wet and rinse the toothbrush instead of allowing the water to run while brushing your teeth. Apply the same idea when washing your hands.
- Take a short shower instead of a bath.
- Turn off the water while you are shampooing your hair.
- Find out what a "greywater system" can do and if it is right for your situation.



Visit the following website for additional information.

www.epa.gov/watersense



### CONSERVING WATER INDOORS



## YOU CAN EASILY SAVE WATER at

home and at work through simple practices such as installing water-efficient fixtures and locating and eliminating leaks.

Water use in Texas averages 169 gallons per person per day. By adopting water-saving measures, you can reduce that amount and save money. Making a habit of conservation makes sense. It protects the water resources of both current and future Texans.

## INSTALL WATER-EFFICIENT APPLIANCES AND FIXTURES

Toilets: Toilets are by far the main source of water use in the home, accounting for approximately 30 percent of indoor water use. They also happen to be a major source of leaks and/or inefficiency. Under state and federal law, toilets must not exceed 1.28 gallons per flush.

- Over the course of your lifetime, you will likely flush the toilet nearly 140,000 times. If you install a high-efficiency toilet, you can save 4,000 gallons per year.
- Many local utilities offer rebates to replace old toilers
- A leaky toilet can waste 200 gallons of water per day, and it is estimated that nearly 20 percent of all toilets leak.
- Test toilets for leaks. Once in a while, take the top off your toilet tank and watch it flush. Do you notice any leaks? Yes? Replace the flapper or rubber washer. Don't forget about those less obvious leaks. Add a few drops of food coloring or a dye tablet to the water in the tank, but do not flush the toilet. If the coloring appears in the bowl within a few minutes, the toilet has a leak that needs to be repaired.
- Check toilet parts regularly. Replace worn parts with good quality parts as necessary, and retest to make sure the leak has been fixed.

20

8

19

4

17

6 8 10

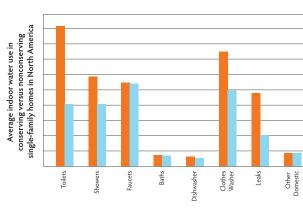
0 2 4

Gallons per capita per day

conserving home

Showers: Installing a water-efficient showerhead is one of the single most effective water-saving steps you can take inside your home.

Take shorter showers. A full bathtub can require up to 70 gallons of water versus a 5-minute shower that uses as little as 10 gallons.



The average indoor use in a conserving North American single-family home is 45.2 gallons per capita per day, and in a nonconserving home it is 69.3 gallons per capita per day.

Source: Handbook of Water Use and Conservation, 2001.

Sinks: Install faucet aerators on sinks for a simple, cost-effective way to save water. Aerators are inexpensive and do not require special adapters. The faucet's efficiency can double without sacrificing performance.

Faucet leaks are usually caused by worn washers or "O" ings (for a washerless faucet). Note the faucet brand, and take the original part with you to a home improvement center for an easy and inexpensive solution.

Washing Machines: When buying a washer, look for a high-efficiency model that has adjustable water levels for different load sizes. High-efficiency washers use 35 to 55 percent less water and 50 percent less energy. They also require less detergent, rinse more thoroughly, are less abrasive on clothes, and can fit larger capacity loads in the same size

Dishwashers: High-efficiency dishwashers use a maximum of 7 gallons per load, but some use as little as 2.1 gallons. Replacing an older model with a water-efficient model could cut dishwasher water use in half. Look for energy efficiency features to cut costs even more.

# DON'T WAIT TO FIX LEAKS!

Leaks waste both water and energy and could account for 10 percent or more of your water bill.

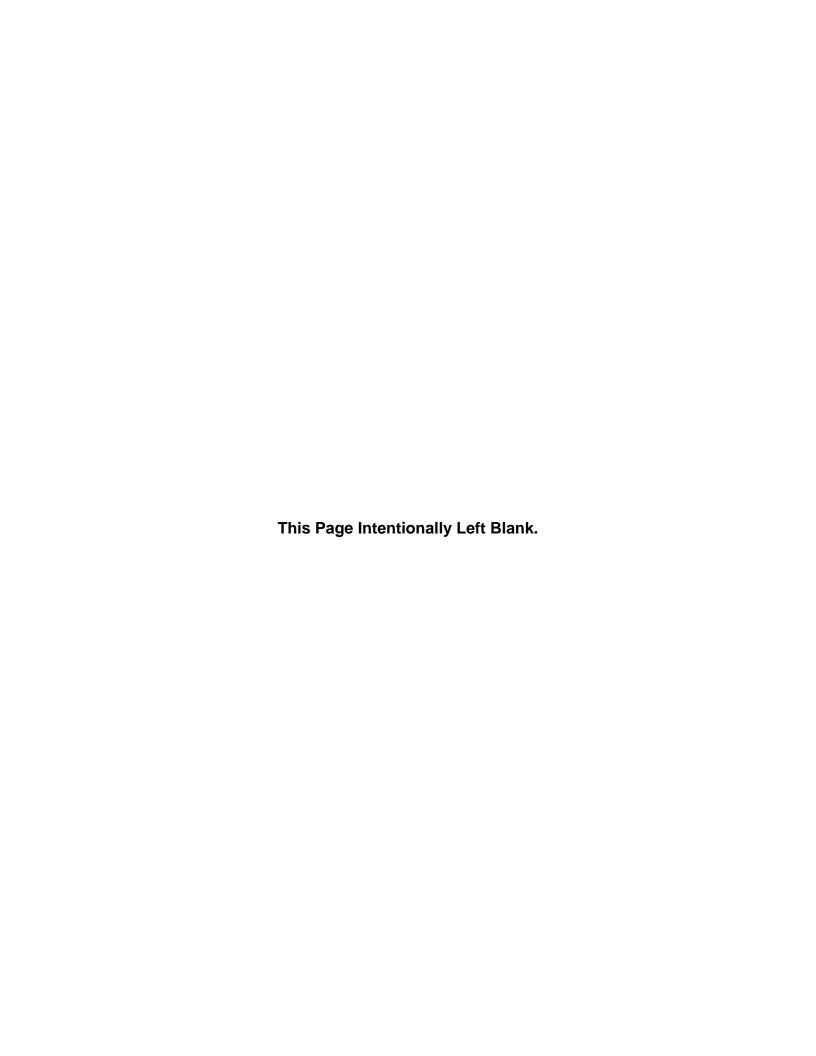
Use your water meter to check for invisible leaks.

- Turn off all faucets and any water-using appliances.
  - Read the dial on the water meter and record the numbers. (It is often located along the property line near the street.)
- Recheck the meter after 15 to 20 minutes.

If the numbers on the meter changed while no water was used, you have a leak! The services of a plumber or trained water utility employee are often required to locate and fix these invisible leaks.



### Appendix B Public Information Provided by the District Regarding Subsidence





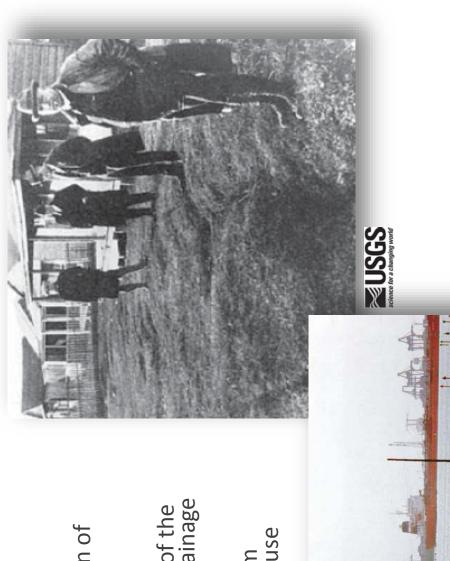
# THE PAST, PRESENT, AND FUTURE OF SUBSIDENCE IN THE HOUSTON REGION

Harris-Galveston Subsidence District

<u> Michael J. Turco – General Manager</u>

# What is Subsidence?

- Subsidence is the lowering of the elevation of land surface over time.
- Subsidence can have a wide range of consequences depending on the location of the occurrence and its proximity to surface drainage and coastal zones
- In this area, clay compaction resulting from groundwater withdrawal is the primary cause for subsidence

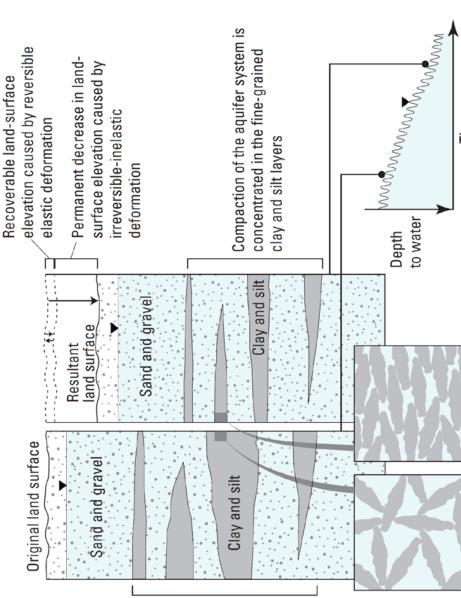




# Mechanism for Subsidence in the Gulf Coast

When long-term withdrawals clay and silt layers beyond a and silt layers compact, and threshold amount, the clay the land-surface elevation lower groundwater levels and raise pressure on the decreases permanently

nitial aquifer groundwater withdrawals thickness sediment before







of groundwater withdrawals

porosity and groundwater-

storage capacity

skeleton with reduced granular clay and silt

skeleton defining fluid-Granular clay and silt

filled interstitial-pore spaces that store groundwater

Long-term water-level decline

Rearranged and compacted

# Harris-Galveston Subsidence District Regulatory Plan

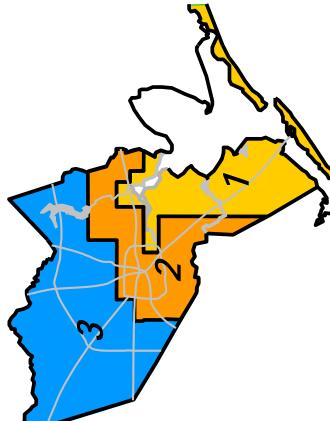
# Updated in 2013

# •**Areas 1 and 2** – Fully Converted

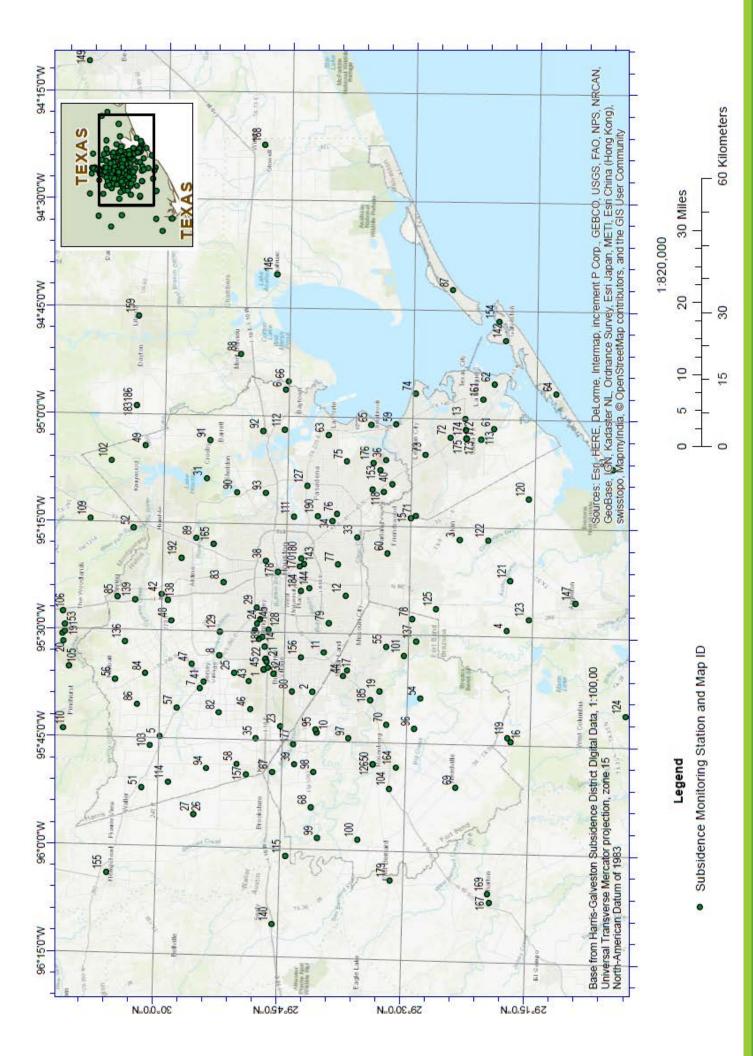
- Area 1 GW Reduced to 10% or less of TWD
- Area 2 GW Reduced to 20% or less of TWD

### Area 3

- Reduce Groundwater usage by 30% by 2010
- Reduce Groundwater usage by 60% by 2025
- Reduce Groundwater usage by 80% by 2035
- Exemptions: Agricultural Irrigation
- Non compliance subject to DISINCENTIVE FEE (DF)
- •DF is indexed to 200% of the Maximum Contract Water Rate of the City of Houston
- 2018 DF is \$8.75 per thousand gallons







### Estimated Subsidence 1906-2000

Developed through the comparison of historical topographic information and level surveys conducted by the District in 2000.

Shows broad area of about 6 feet of subsidence encompassing most of the City of Houston and Harris County.

In comparison the amount and breadth of subsidence in the northern and western parts of Harris County just showing the beginning signs of Subsidence.

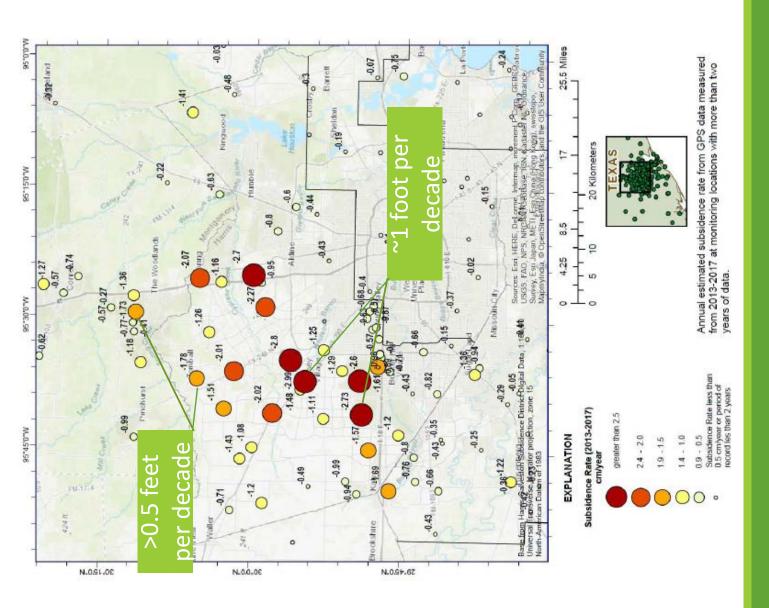
This data was developed by Bob Gabrysch and pushed at the fifth international symposium on subsidence



### Subsidence Rate 2013-Annual 2017

observed today in the region are North-eastern Fort Bend County Montgomery County, Northern The highest subsidence rates and Western Harris County, ocated in Southern

nfrastructure project in the US **Nater Authorities are currentl** to supply alternative water to cooperation with the Regiona undertaking the largest water The City of Houston in these areas Subsidence has generally ceased n areas where conversion has groundwater use has been been completed and peonpe.



# Estimated Subsidence 1906-2016

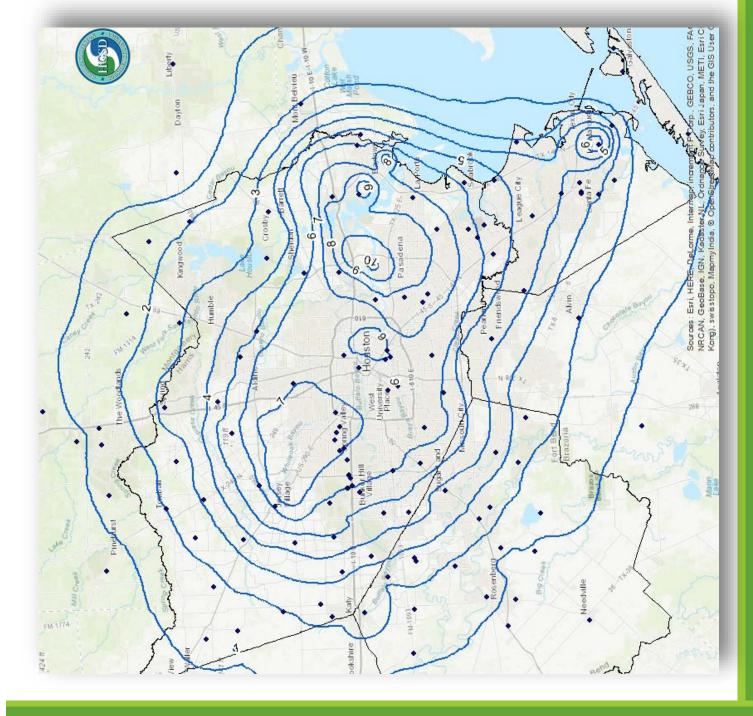
Developed through the assumption that subsidence rates (2011-2016) remained constant from 2000-2016. Estimated total subsidence was then added to the 1906-2000 surface.

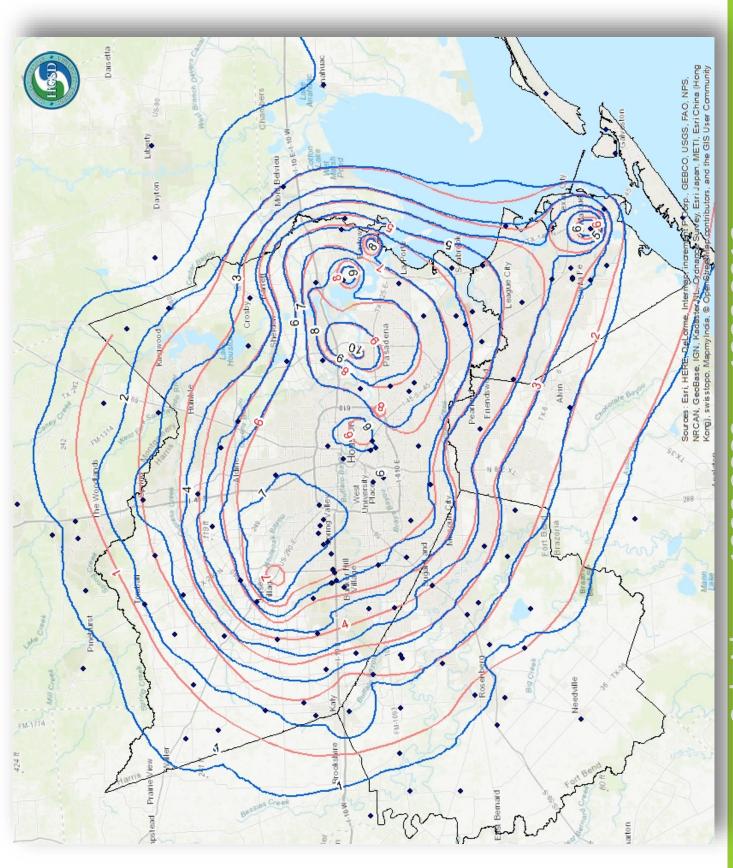
Little change is noted in the areas to the east of downtown Houston, where full conversion has completed.

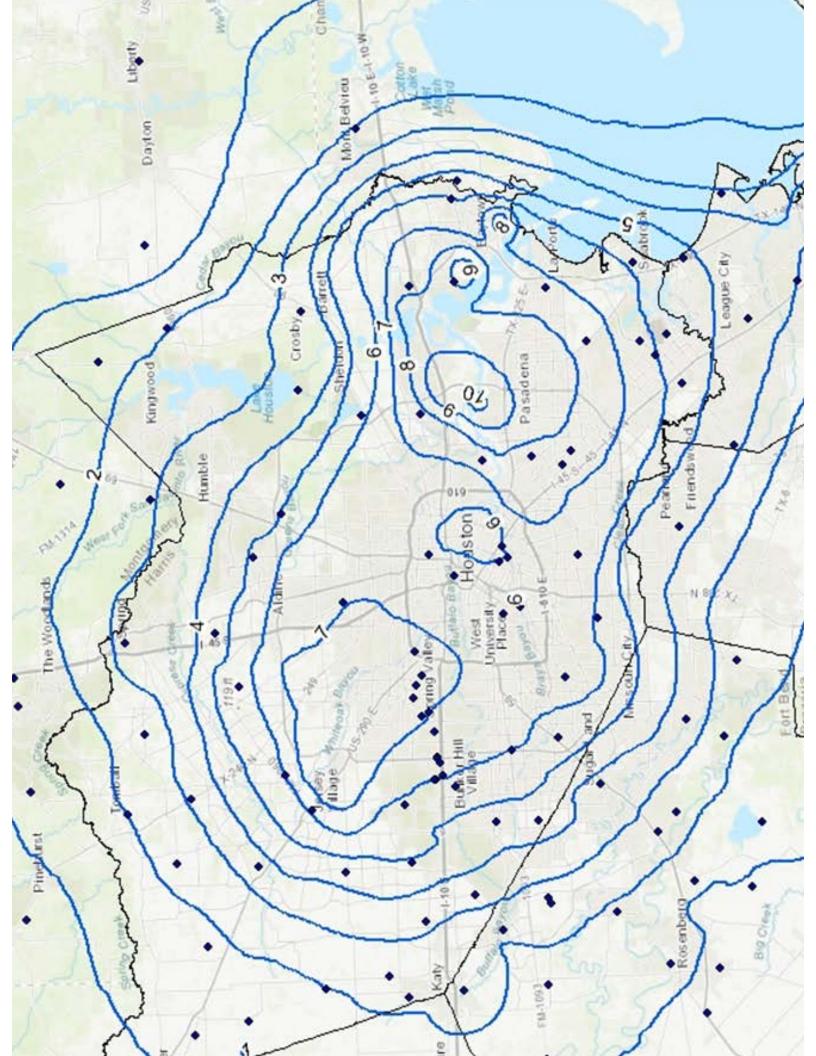
The area of subsidence expands to include Montgomery and Waller counties. Western Harris County, Northern Fort Bend County, Northern Harris county show change from the 1906-2000 comparison.

This data was developed by the Subsidence District

This map is preliminary and subject to revision.



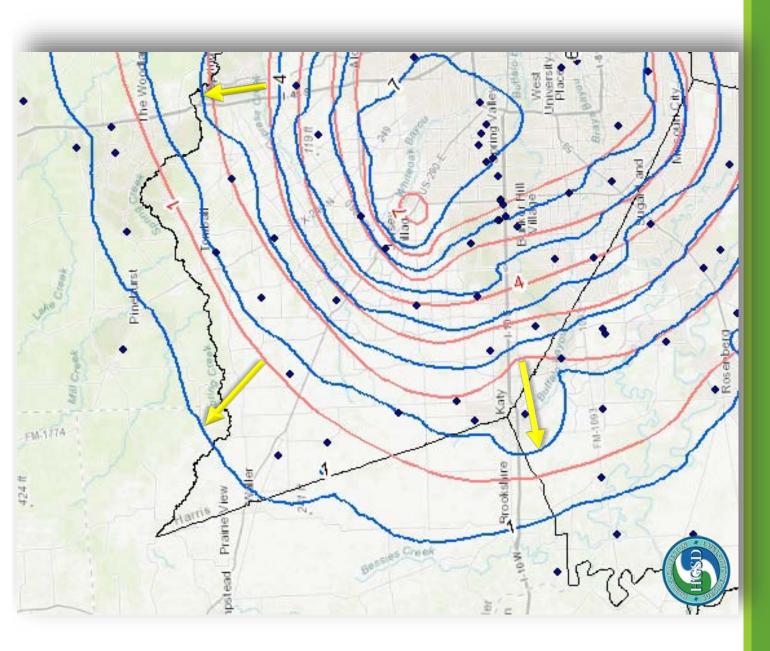




### Subsidence 1906-2000 vs. 1906-2016

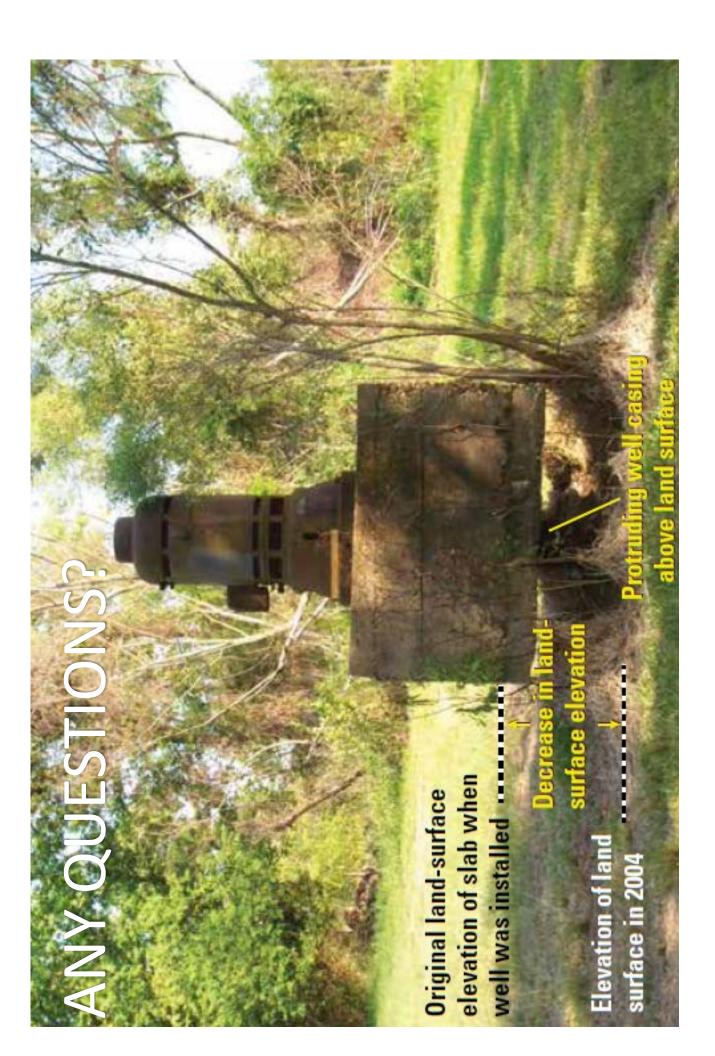
Areas to the west and north of downtown Houston show the largest amounts of change 1-foot contour extends well into Montgomery and Waller Counties.

Smaller 7-foot feature in the 1906-2000 surface expands considerably.

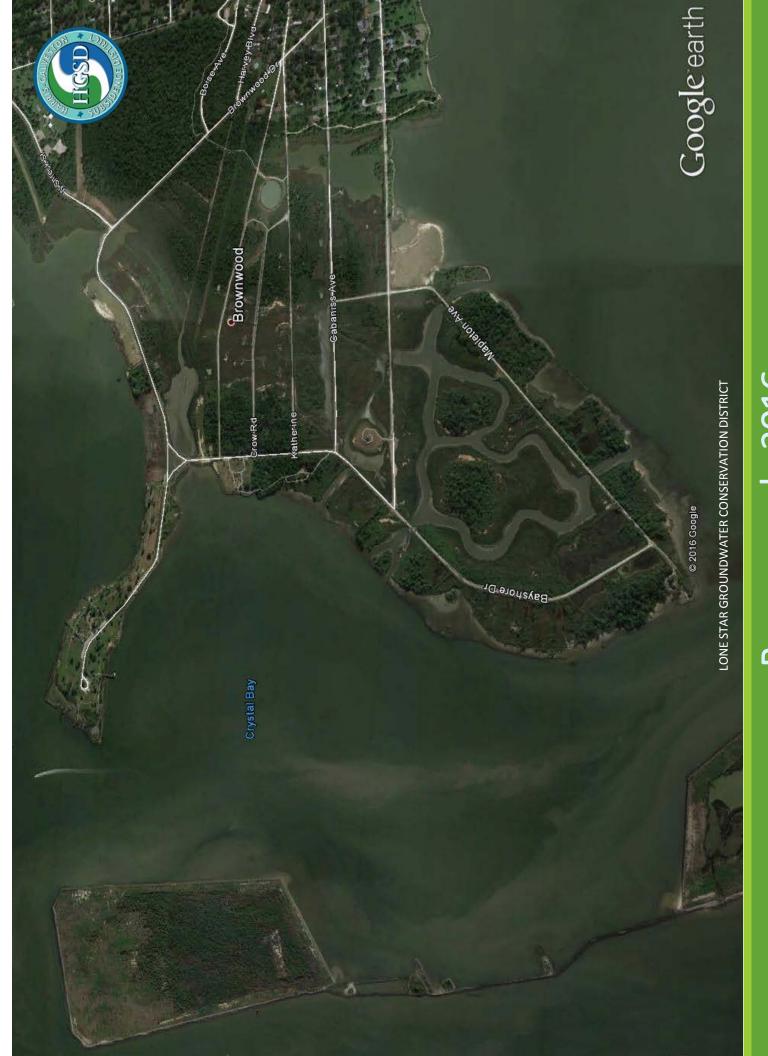


Investigation of Brackish Resources in the Gulf Coast Aquifer and Determination of the Potential Subsidence Risk From Resource Development











## Study Motivation & Products

- The Districts' Science and Research Plan calls for the determination of the occurrence and hydrogeologic characteristics of the brackish resources within the District and surrounding areas
- Two Primary Work Products
- —Report and data delineating brackish groundwater resources with the Harris-Galveston and Fort Bend Subsidence Districts
- —Risk Analysis for Subsidence from Development of the Brackish Jasper Aquifer
- studies; (2) provides an improved understanding of the historically undeveloped This study: (1) provides foundational information to inform future subsidence brackish resources; and informs potential regulation of brackish resources











# **Brackish Resources Delineation Report**

- Study Area the Harris-Galveston and Fort Bend Subsidence Districts and surrounding counties
- Study builds on the analysis begun by the TWDB HB-30 work increasing the resolution of the analysis
- structure, lithology and salinity in Gulf Coast Performed a detailed assessment of aquifer Aquifer System
- Fully digital dataset of aquifer lithology (sand/clay) and salinity
- 299 geophysical logs Salinity
- 294 geophysical logs Lithology
- 209 geophysical logs Stratigraphy

FINAL REPORT ON THE DELINEATION OF FRESH, BRACKISH AND SALINE GROUNDWATER RESOURCES BASED ON INTERPRETATION OF GEOPHYSICAL LOGS

Prepared for:





Fort Bend Subsidence District

Prepared by:









Bureau of Economic Geology

LBG-Guyton & Associates

December 2017





# Characterization of Subsidence Risk in the Jasper Aquifer

- Performed a Risk Assessment for groundwater development from the Jasper Aquifer
- Study area focused on brackish portions of the Jasper Aquifer (generally > 2,000 feet)
- parameters for assessment of compaction in the — Developed a conceptual model and base-case Jasper Aquifer
- Normalized Risk Methodology based upon three performance metrics:
- Compaction in the Jasper Aquifer
- Land subsidence from Jasper compaction
- Consequence from subsidence (flood plain)

### CONSIDERATIONS FOR THE BRACKISH JASPER AQUIFER SUBSIDENCE RISK ASSESSMENT AND REGULATORY

Harris-Galveston and Fort Bend Subsidence Districts

Final Report

Prepared for:



Fort Bend Subsidence District

Harris-Galveston Subsidence District

GEOSCIENCE & ENGINEERING SOLUTIONS Prepared by:

INTERA Incorporated 9600 Great Hills Trail 512.425.2000

May 2018





# Measurement of clay-compaction and subsidence

- •The District has a long history of working with multiple agencies and private firms to understand the mechanism and occurrence of subsidence in the region
- •U.S. Geological Survey: Determined much of the mechanics and works through a cooperative agreement with each district to monitor water-level, develop groundwater models, and provide technical assistance.
- National Geodetic Survey: Developed the GPS monitoring network and provides technical assistance.
- •University of Houston: Cooperation in data collection, processing, and dissemination
- Private Consultants



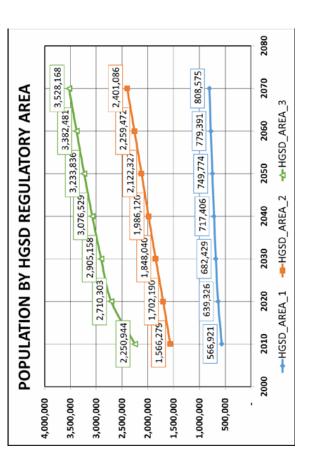


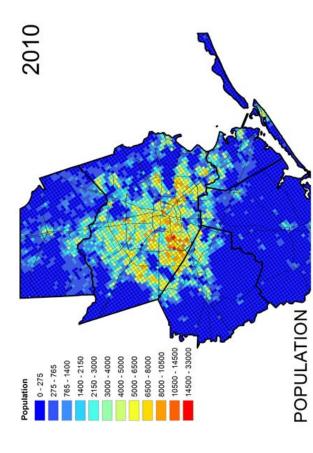
### Regulatory Planning



Utilized data from the 2010 Census, Annual Water-Level and Subsidence Data collected by the USGS and the Subsidence District Brought together a group of consultants to help develop the plan:

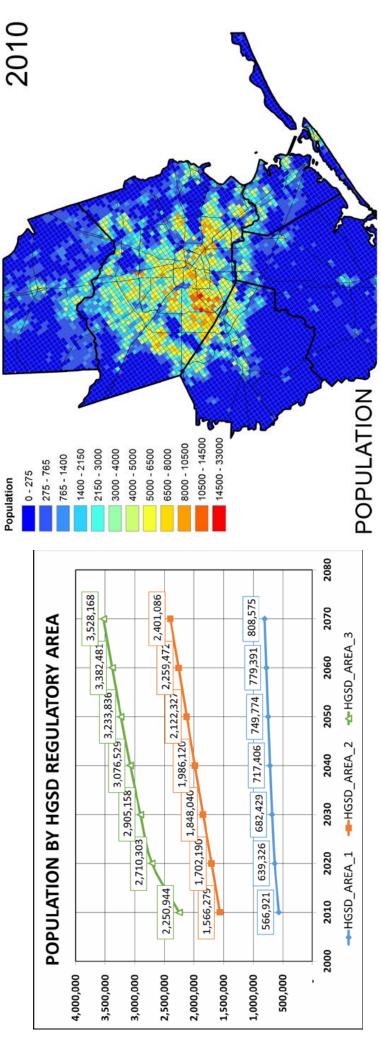
- Conducted population projections and migration prediction
- Updated multiple local scale analytical subsidence models in the Houston Region
- Updated the regional groundwater flow model
- Developed the predictive model data sets

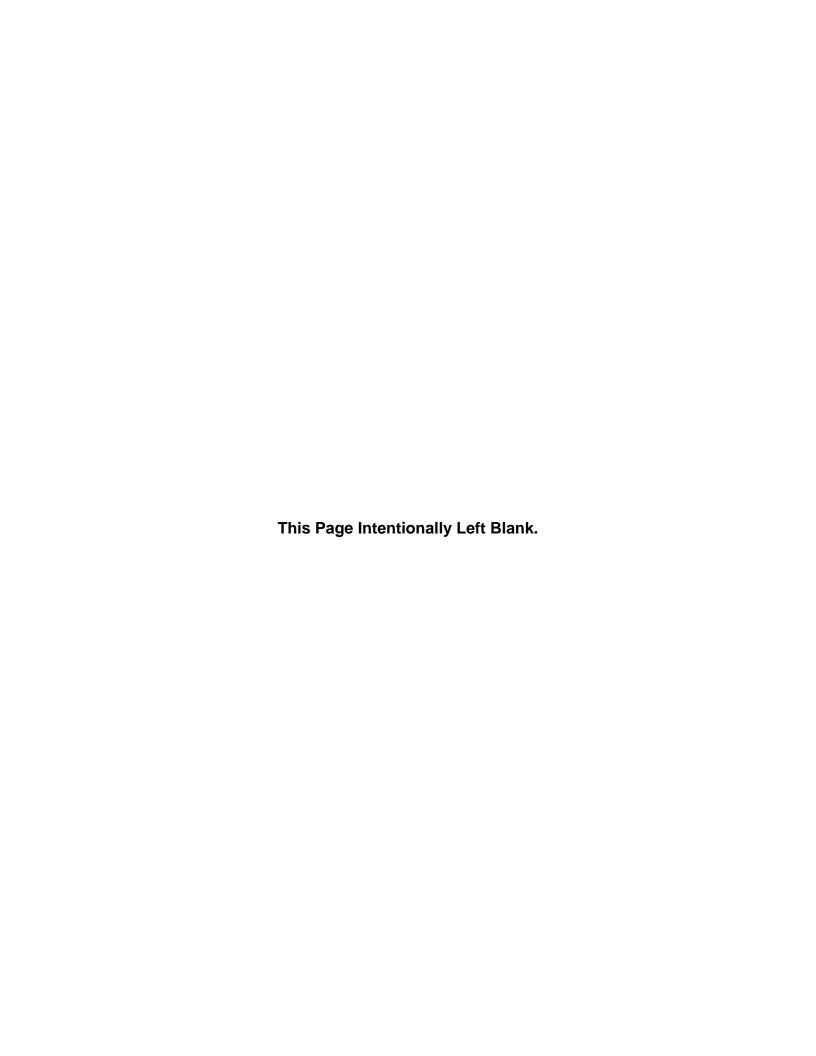




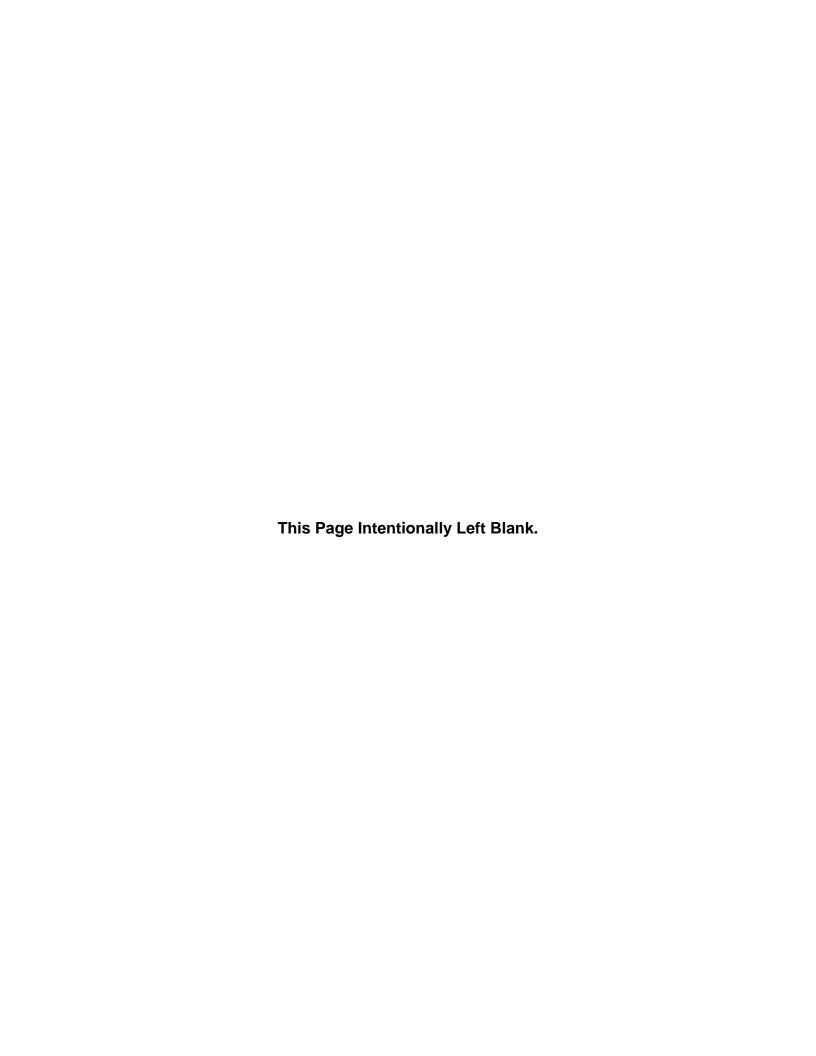








#### Appendix C Permitted Injection Wells Texas Railroad Commission



4029313157   mjection/Disposal From Oil (Sac   Departor Reported Location   95.3409872   29.9021456   4029331201.   mjection/Disposal From Oil (Sac   Departor Reported Location   95.14093012   29.0141653   4029331202.   mjection/Disposal Well   Coordinates from Operator   95.24093114   4029331203.   mjection/Disposal Well   Coordinates from Operator   95.24093114   4029301035   mjection/Disposal Well   RfC Hardcopy Map   95.24093114   4029301035   mjection/Disposal Well   RfC Hardcopy Map   95.5203230   29.5086648   4029301035   mjection/Disposal Well   RfC Hardcopy Map   95.5203230   29.5086644   4029301035   mjection/Disposal Well   RfC Hardcopy Map   95.502233   29.5086014   4029301036   mjection/Disposal Well   RfC Hardcopy Map   95.502333   29.5086014   4029301036   mjection/Disposal Well   RfC Hardcopy Map   95.502333   29.5086014   4029301036   mjection/Disposal Well   RfC Hardcopy Map   95.5080000   95.50600007   29.50600007   4029301036   mjection/Disposal Well   RfC Hardcopy Map   95.5080000   95.50600007   29.50600007   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.506000000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.50600000   29.506000000   29.50600000   29.506000000   29.50600000000000000000000000000000000000	API Number <sup>1</sup>	Well Type	Reliability of Position <sup>2</sup>	Longitude (DD) <sup>3</sup>	Latitude (DD) <sup>3</sup>
AG039312101.   mjection/Disposal From Oil   RR. Hardcopy Map	4203900439	Injection/Disposal From Oil	Operator Reported Location		29.50550339
## ## ## ## ## ## ## ## ## ## ## ## ##	4203931857	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.3340872	29.50221414
4209331366   Injection/Disposal From Oil   RRC Hardcopy Map	4203931312D1	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24700302	29.49361755
	4203933210D1	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.12404554	29.20361528
42039320301   Injection/Disposal From OII   RR C Hardcopy Map	4203931366	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24983114	29.50141063
4203901295   Injection/Osposal Well   MRC Hardcopy Map	4203933086D1	Injection/Disposal Well	Coordinates from Operator	-95.2703709	29.52086644
AD03930035   Injection/Olsposal Well   RRC Hardcopy Map	4203932203D1	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24552506	29.49861283
4203901951   Injection/Disposal Well   RRC Hardcopy Map   95.63868   92.827677   4203901955   Injection/Disposal Well   RRC Hardcopy Map   95.63868   92.827677   4203901955   Injection/Disposal Well   RRC Hardcopy Map   95.600207   29.2902642   4203902686   Injection/Disposal From Oil   USGS 7.5 Minute Quadrangle or Aerial Photograph   95.7804281   27.82733.56   420393135401   Injection/Disposal Well   RRC Hardcopy Map   95.326768600   29.48235529   42039332561   Injection/Disposal Well   RRC Hardcopy Map   95.26768600   29.48235529   4203933265   Injection/Disposal Well   RRC Hardcopy Map   95.26768600   29.48235529   42039332660   Injection/Disposal Well   RRC Hardcopy Map   95.263555   29.4848654   4203933269   Injection/Disposal Well   Operator Reported Location   95.1905531   29.4848654   42039332661   Injection/Disposal Well   Operator Reported Location   95.261616400   95.261616400   40.0000000000000000000000000000000	4203902195	Injection/Disposal Well	RRC Hardcopy Map	-95.7313505	29.2967353
AP03901581   Injection/Olsposal Well   SRC Hardcopy Map	4203930035	Injection/Disposal Well	RRC Hardcopy Map	-95.6592338	29.2897567
A203901555   Injection/Disposal From Oil   USGS 7.5 Minute Quadrangle or Aerial Photograph   -95.5600207   29.2002425	4203900140	Injection/Disposal From Oil	Coordinates from Operator	-95.32860354	29.50540617
4203931856   Injection/Oisposal Well   Operator Reported Location   -95.26768006   29.4823529   29.48265252   29.3826512   Injection/Oisposal Well   Operator Reported Location   -95.26768006   29.4823529   29.48265252   29.3826512   Injection/Oisposal Well   Operator Reported Location   -95.26768006   29.4823529   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652   29.482652	4203901981	Injection/Disposal Well	RRC Hardcopy Map	-95.653868	29.2870571
A20393149D1   Injection/Disposal Well   Operator Reported Location   -95.2866666   29.48235529   A203932366   Injection/Disposal Well   Operator Reported Location   -95.2803356   29.4484659   A203932366   Injection/Disposal Well   Operator Reported Location   -95.2803356   29.4484659   A203932366   Injection/Disposal Well   Operator Reported Location   -95.2803556   29.3482678   A2039323151   Injection/Disposal Well   Operator Reported Location   -95.2803556   29.3482678   A203933151   Injection/Disposal Well   Operator Reported Location   -95.26416409   29.4898947   A20393311701   Injection/Disposal Well   Operator Reported Location   -95.27337737   29.4978596   A20393311701   Injection/Disposal Well   Operator Reported Location   -95.27337737   29.4978596   A2039331651   Injection/Disposal Well   Operator Reported Location   -95.27633737   29.4978596   A2039331651   Injection/Disposal Well   Operator Reported Location   -95.27633737   29.4978596   A2039331651   Injection/Disposal Well   Operator Reported Location   -95.27633737   29.4978596   A2039331151   Injection/Disposal Well   Operator Reported Location   -95.27633737   29.4978596   A2039331151   Injection/Disposal Well   Operator Reported Location   -95.28974956   29.4918391   A20393017210   Injection/Disposal Well   Operator Reported Location   -95.28974956   29.49183164   A203931151   Injection/Disposal Well   Operator Reported Location   -95.2880141   29.4902888   A20393315301   Injection/Disposal Well   Operator Reported Location   -95.2880141   29.48608571   A20393312501   Injection/Disposal From Oil (JGs   RRC Hardcopy Map   -95.2880154   29.48608571   A20393312501   Injection/Disposal From Oil   Operator Reported Location   -95.3989979   29.4786538   A20393312501   Injection/Disposal From Oil   Operator Reported Location   -95.3980979   29.4786538   A203930082   Injection/Disposal From Oil   Operator Reported Location   -95.2880544   29.38680571   29.3866515   A203930082   Injection/Disposal From Oil   Operator Reported Location   -95.2880536	4203901955	Injection/Disposal Well	RRC Hardcopy Map	-95.6600207	29.2902642
420393151401	4203902686	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.75804281	29.27733156
A2033303252   mjection/Disposal Well	4203981496	Injection/Disposal Well	RRC Hardcopy Map	-95.3349127	29.4861255
4203930173   mjection/Disposal Well   Operator Reported Location   -95.21905531   29.389584   24039331801   mjection/Disposal Well   Operator Reported Location   -95.2616409   29.495594   24039331301   mjection/Disposal Well   Operator Reported Location   -95.27112294   29.49771156   29.49783596   240393313051   mjection/Disposal Well   Operator Reported Location   -95.2712294   29.49771576   240393311051   mjection/Disposal Well   Operator Reported Location   -95.273377   29.49785596   29.4769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.769366   24.	4203933154D1	Injection/Disposal Well	Operator Reported Location		29.48235529
A2039311501	4203930652	Injection/Disposal From Gas	RRC Hardcopy Map	-95.2893356	29.4484659
4203933168D1	4203932869	Injection/Disposal Well	Operator Reported Location	-95.21905531	29.3859538
420393317101	-	• • •		1	29.3842676
420393314701				+	29.4985942
A203931251   Injection/Disposal Well   Operator Reported Location   .95.43892064   29.47509366   4203931215   Injection/Disposal From Oil   RRC Hardcopy Map   .95.3387151   29.4945218   4203901217   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2387151   29.4945218   4203901217   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2387151   29.4945219   4203931315611   Injection/Disposal From Oil   RRC Hardcopy Map   .95.25974956   29.48128505   420393131501   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2528314   29.4801353   4203931151   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2528314   29.4801355   420393131501   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2528314   29.4801355   420393124201   Injection/Disposal From Oil   RRC Hardcopy Map   .95.2380997   .99.4806457   .29.4800014   .99.2808457   .29.4800014   .99.2808457   .29.4800014   .99.2808457   .29.4800014   .99.2808457   .29.4800014   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .99.28080971   .9				+	29.49771167
			Operator Reported Location	+	29.49785596
4203931215   Injection/Disposal From Oil   RRC Hardcopy Map   .95.3387151   .29.4945219   .420390109211   Injection/Disposal Well   .0 Operator Reported Location   .95.25974950   .99.43138502   .29.4813820   .29.4813820   .29.4813820   .29.4813820   .29.4813820   .29.4813820   .29.4813830   .29.240393313501   .20.24039331351   .20.240203818   .20.240203931351   .20.240203931351   .20.240203931351   .20.240203931351   .20.240203931351   .20.240203931351   .20.240203931351   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.2402039313521   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330   .20.240203932330					
4203901092D1         Injection/Disposal Well         Operator Reported Location         -95.2379956         29.49138505           42039301717         Injection/Disposal From Oil         RRC Hardcopy Map         -95.2432002         29.4871736           420393151501         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.258314         29.4861838           42039312401         Injection/Disposal From Oil         RRC Hardcopy Map         -95.2808071         29.4860072           42039322478D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.280997         29.4786538           42039322478D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.280997         29.4786538           4203930571         Injection/Disposal Well         Coordinates from Operator         -95.1951547         29.2863615           4203930571         Injection/Disposal Well         RRC Hardcopy Map         -95.380096         29.3708507           4203931520         Injection/Disposal Well         RRC Hardcopy Map         -95.2804982         29.3708507           4203931525         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2852445         29.3663815           4203931525         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3623352 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
4203900717   Injection/Disposal From Oil   RRC Hardcopy Map   -95.2432002   29.4871736   420393315601   Injection/Disposal From Oil/Gas   RRC Hardcopy Map   -95.25811418   29.49028388   4203991115   Injection/Disposal From Oil/Gas   RRC Hardcopy Map   -95.258314   29.4861855   420393315301   Injection/Disposal From Oil/Gas   RRC Hardcopy Map   -95.28804571   29.48600729   420393224401   Injection/Disposal From Oil   RRC Hardcopy Map   -95.28809571   29.48600729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.4860729   29.				+	
4203933156D1         Injection/Disposal Well         Operator Reported Location         -95.26811418         29.49028388           4203931115         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.25283314         29.4861855           420393312401         Injection/Disposal From Oil         RRC Hardcopy Map         -95.2380997         29.4786538           42039323478D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1951547         29.2863615           4203932330 Injection/Disposal From Oil         RRC Hardcopy Map         -95.347557         29.2574813           4203932330 Injection/Disposal From Oil         Operator Reported Location         -95.347557         29.2574813           4203931552 Injection/Disposal Well         RRC Hardcopy Map         -95.2890065         29.3708507           4203931552 Injection/Disposal Well         RRC Hardcopy Map         -95.2890065         29.3708507           4203931554 Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.362332           4203931552 Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2079679         29.3444178           42039326201 Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.23925459           42039326201 Injection/Disposal From Oil         RRC Hardcopy				+	
4203901115	-	• • •		+	
4203933153D1         Injection/Disposal Well         Operator Reported Location         -95.26804571         29.48600729           4203932244D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.2380997         29.2486533           4203932478D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.3951547         29.2863615           4203932330         Injection/Disposal From Oil         Operator Reported Location         -95.3504144         29.2567212           4203932330         Injection/Disposal Well         RRC Hardcopy Map         -95.2890065         29.3705607           4203932082         Injection/Disposal Well         RRC Hardcopy Map         -95.289065         29.3703667           4203931052         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2894982         29.3703667           4203931052         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.362385           4203932662D1         Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.254092           4203932030         Injection/Disposal From Gas         Operator Reported Location         -95.2362482         29.3381639           4203900892         Injection/Disposal From Oil         RRC Hardcopy Map         -95.56549488         29.	-	• • •			
4203932424D1         Injection/Disposal From Oil         RRC Hardcopy Map         -95.2380997         29.4786538           4203932478D1         Injection/Disposal Well         Coordinates from Operator         -95.1951547         29.2863615           4203932330         Injection/Disposal From Oil         Operator Reported Location         -95.3504144         29.2574813           4203932130         Injection/Disposal Well         RRC Hardcopy Map         -95.2890065         29.3708607           4203932180         Injection/Disposal Well         RRC Hardcopy Map         -95.2820482         29.3708607           4203931852         Injection/Disposal Well         RRC Hardcopy Map         -95.282445         29.3668803           4203931552         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3623352           4203931646         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2079679         29.3444178           4203932130         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.309662         29.3623352           4203932131         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.4328403         29.2516298           4203900898         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.2361792 </td <td></td> <td></td> <td></td> <td>+</td> <td></td>				+	
4203932478D1         Injection/Disposal Well         Coordinates from Operator         -95.1951547         29.2863615           4203980571         Injection/Disposal From Oil         RRC Hardcopy Map         -95.347557         29.2574813           4203932330         Injection/Disposal From Oil         Operator Reported Location         -95.380454         29.2567212           4203931200         Injection/Disposal Well         RRC Hardcopy Map         -95.2804982         29.3703687           4203931001         Injection/Disposal Well         RRC Hardcopy Map         -95.2804982         29.3703687           4203931052         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3668803           4203931156         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3444178           4203932101         Injection/Disposal From Oil         Coordinates from Operator         -95.207679         29.3444178           4203932103         Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.2516298           4203932120         Injection/Disposal From Oil         Operator Reported Location         -95.4324403         29.3254059           42039008891         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph					
4203980571   Injection/Disposal From Oil   RRC Hardcopy Map   -95.347557   29.2574813   4203932330   Injection/Disposal From Oil   Operator Reported Location   -95.3504144   29.25677212   42039   Injection/Disposal Well   RRC Hardcopy Map   -95.2800982   29.3703687   4203932180   Injection/Disposal Well   RRC Hardcopy Map   -95.2804982   29.3703687   420393082   Injection/Disposal Well   RRC Hardcopy Map   -95.2852445   29.3668803   4203931552   Injection/Disposal From Oil/Gas   Operator Reported Distances   -95.3038566   29.3623352   4203931646   Injection/Disposal From Oil/Gas   RRC Hardcopy Map   -95.2079679   29.3444178   420393266201   Injection/Disposal From Oil   Coordinates from Operator   -95.3196328   29.2816298   4203932130   Injection/Disposal From Oil/Gas   Operator Reported Location   -95.4328403   29.2554095   4203900898   Injection/Disposal From Oil/Gas   Operator Reported Location   -95.301182   29.3381639   4203900892   Injection/Disposal From Oil   USGS 7.5 Minute Quadrangle or Aerial Photograph   -95.24462471   29.33589373   4203901871   Injection/Disposal From Oil   Operator Reported Location   -95.56549488   29.32273513   4203932517   Injection/Disposal From Gas   Operator Reported Location   -95.56549488   29.32273513   4203930291   Injection/Disposal From Gas   Operator Reported Location   -95.56549488   29.32273513   4203930291   Injection/Disposal From Gas   Operator Reported Location   -95.26654948   29.3293434   4203901874   Injection/Disposal From Gas   Operator Reported Location   -95.57552196   29.3288435   4203901874   Injection/Disposal From Gas   Operator Reported Location   -95.57552196   29.3238867   4203901879   Injection/Disposal From Oil/Gas   Operator Reported Location   -95.57552196   29.3238867   4203901878   Injection/Disposal From Oil/Gas   Operator Reported Location   -95.57552196   29.3238867   4203901879   Injection/Disposal From Oil/Gas   Operator Reported Location   -95.3462499   29.3185548   4203901879   Injection/Disposal From Oil/Gas   Operator Reported Loca				+	
4203932330   Injection/Disposal From Oil   Operator Reported Location   -95.3504144   29.2567212	-	• • •		1	
A2039   Injection/Disposal Well   RRC Hardcopy Map   -95.2890065   29.3708507	-	• • •		1	
4203932180         Injection/Disposal Well         RRC Hardcopy Map         -95.2804982         29.3703687           4203930082         Injection/Disposal Well         RRC Hardcopy Map         -95.2852445         29.3668803           4203931552         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3623852           4203931646         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2079679         29.3444178           4203932130         Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.2816298           42039302130         Injection/Disposal From Gas         Operator Reported Location         -95.4328403         29.2554095           42039008981         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33881639           4203901871         Injection/Disposal From Oil         Operator Reported Location         -95.5757092         29.3255076           4203932291         Injection/Disposal From Oil         Operator Reported Location         -95.5757092         29.3228453           4203901871         Injection/Disposal From Gas         Operator Reported Location         -95.2661795         29.3298453           4203901872         Injection/Disposal From Gas         Operator Reported Locatio					
4203930082         Injection/Disposal Well         RRC Hardcopy Map         -95.2852445         29.3668803           4203931552         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3623352           4203931646         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2079679         29.3444178           4203932130         Injection/Disposal From Gas         Operator Reported Location         -95.3196328         29.2554095           4203900892         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203900892         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33589373           4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.322050076           4203932903         Injection/Disposal From Gas         Operator Reported Location         -95.55649488         29.32273513           420393291         Injection/Disposal From Gas         Operator Reported Location         -95.2864484         29.3227351           4203930292         Injection/Disposal From Gas         Operator Reported Location         -95.238843         29.329310           4203930293         Injection/Disposal From Oil/Gas         Operator Repo			.,,		
4203931552         Injection/Disposal From Oil/Gas         Operator Reported Distances         -95.3038566         29.3623352           4203931646         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2079679         29.3444178           4203932100         Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.2816298           4203902130         Injection/Disposal From Gas         Operator Reported Location         -95.4328403         29.2554095           4203900898         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203900892         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33889373           4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932517         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203900291         Injection/Disposal From Gas         Operator Reported Location         -95.1884126         29.3279316           4203901879         Injection/Disposal From Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         <		, , ,	., .		
4203931646         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.2079679         29.3444178           4203932662D1         Injection/Disposal From Gas         Operator Reported Location         -95.3196328         29.2816298           4203932130         Injection/Disposal From Gas         Operator Reported Location         -95.4328403         29.2554095           4203900892         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.24462471         29.33589373           4203932903         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932917         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203932517         Injection/Disposal From Gas         Operator Reported Location         -95.2661795         29.3298453           4203903294         Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293193           4203901879         Injection/Disposal From Gas         Operator Reported Location         -95.57552196         29.3208867           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         <			<del> </del>		
4203932662D1         Injection/Disposal From Oil         Coordinates from Operator         -95.3196328         29.2816298           4203932130         Injection/Disposal From Gas         Operator Reported Location         -95.4328403         29.2554095           4203900898         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203900892         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33259376           4203931         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932903         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203932917         Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203932424         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203931874         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901874         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.57525196         29.3187518           42039011874         Injection/Disposal From Oil/Gas         RRC Hard				+	
4203932130         Injection/Disposal From Gas         Operator Reported Location         -95.4328403         29.2554095           4203900898         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203900892         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33589373           4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932517         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203902521         Injection/Disposal From Gas         Operator Reported Location         -95.2661955         29.3298453           420390262         Injection/Disposal From Gas         Operator Reported Location         -95.288435         29.3293109           4203901874         Injection/Disposal From Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.57525196         29.32038967           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203901036         Injection/Disposal From Oil         RRC Hardcop			. , .		
4203900898 Injection/Disposal From Oil/Gas         Operator Reported Location         -95.2301182         29.3381639           4203900892 Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33589373           4203901871 Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932903 Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           420393291 Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203900929 Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203932424 Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901874 Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901878 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5752504         29.3186545           4203901987 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.732504         29.3186545           4203901006 Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.326776           4203901006 Injection/Disposal From Oil         RRC Hardcopy Map         -95.345					
4203900892         Injection/Disposal From Oil         USGS 7.5 Minute Quadrangle or Aerial Photograph         -95.24462471         29.33589373           4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932903         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203932517         Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203900929         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203901874         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203901087         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1856972         29.326776           4203931967         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34					
4203901871         Injection/Disposal From Oil         RRC Hardcopy Map         -95.5757092         29.3250076           4203932903         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203932517         Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203900929         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203932424         Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901874         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3186545           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203901908         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1846637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002         Injection/Disposal From Oil         RRC Hardcopy Map         -95.3464299		, , , , , , , , , , , , , , , , , , , ,			
4203932903         Injection/Disposal From Oil         Operator Reported Location         -95.56549488         29.32273513           4203932517         Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203900929         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203932424         Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901874         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.1880637         29.326776           4203901008         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203901002         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.32627361 <td></td> <td>, , ,</td> <td></td> <td></td> <td></td>		, , ,			
4203932517         Injection/Disposal From Gas         Operator Reported Location         -95.2061795         29.3298453           4203900929         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203932424         Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901879         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203900933         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002         Injection/Disposal From Oil         RRC Hardcopy Map         -95.3464299         29.3229321           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488					
4203900929   Injection/Disposal From Oil         RRC Hardcopy Map         -95.1884126         29.327911           4203932424   Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901874   Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879   Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878   Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203901903   Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006   Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203931967   Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002   Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.346299         29.3229321           4203901734   Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.26013035           4203901656   Injection/Disposal From Oil         RRC Hardcopy Map         -95.3406488         29.26015506           4203933128D1   Injection/Disposal Well         Operator Reported Location         -95.27665745					
4203932424 Injection/Disposal From Gas         Operator Reported Location         -95.2388435         29.3293109           4203901874 Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203900933 Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006 Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203931967 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002 Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.1850972         29.3229321           4203901734 Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.26011093           4203901656 Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           4203933128D1 Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039 Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288					29.327911
4203901874         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.57525196         29.32038967           4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203900933         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203901002         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.34525832         29.26341188           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.2611093           4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.3460488         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           4203933128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826					29.3293109
4203901879         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5705903         29.3187518           4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203900933         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203931967         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.3850972         29.3229321           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.2611093           4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.34406488         29.26013035           4203901656         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984					29.32038967
4203901878         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.5732504         29.3186545           4203900933         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203901002         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.34525832         29.26341188           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.2611093           4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.32627361         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           42039333128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984					29.3187518
4203900933         Injection/Disposal From Oil/Gas         Operator Reported Location         -95.1880637         29.326776           4203901006         Injection/Disposal From Oil         RRC Hardcopy Map         -95.1845434         29.3252738           4203931967         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.1850972         29.3229321           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.2611093           4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.32627361         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           420393128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984				+	29.3186545
4203931967         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34525832         29.26341188           4203901002         Injection/Disposal From Oil/Gas         RRC Hardcopy Map         -95.1850972         29.3229321           4203901734         Injection/Disposal From Oil         Operator Reported Location         -95.3464299         29.2611093           4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.32627361         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           42039333128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984	4203900933	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.1880637	29.326776
4203901002       Injection/Disposal From Oil/Gas       RRC Hardcopy Map       -95.1850972       29.3229321         4203901734       Injection/Disposal From Oil       Operator Reported Location       -95.3464299       29.2611093         4203932834       Injection/Disposal From Oil       Operator Reported Location       -95.32627361       29.26013035         4203901656       Injection/Disposal From Oil       RRC Hardcopy Map       -95.34406488       29.26015506         4203933128D1       Injection/Disposal Well       Operator Reported Location       -95.27665745       29.50629927         42039       Injection/Disposal Well       RRC Hardcopy Map       -95.2631826       29.5288984	4203901006	Injection/Disposal From Oil	RRC Hardcopy Map	-95.1845434	29.3252738
4203901002       Injection/Disposal From Oil/Gas       RRC Hardcopy Map       -95.1850972       29.3229321         4203901734       Injection/Disposal From Oil       Operator Reported Location       -95.3464299       29.2611093         4203932834       Injection/Disposal From Oil       Operator Reported Location       -95.32627361       29.26013035         4203901656       Injection/Disposal From Oil       RRC Hardcopy Map       -95.34406488       29.26015506         4203933128D1       Injection/Disposal Well       Operator Reported Location       -95.27665745       29.50629927         42039       Injection/Disposal Well       RRC Hardcopy Map       -95.2631826       29.5288984	4203931967	Injection/Disposal From Oil	RRC Hardcopy Map	-95.34525832	29.26341188
4203932834         Injection/Disposal From Oil         Operator Reported Location         -95.32627361         29.26013035           4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           4203933128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984			RRC Hardcopy Map	-95.1850972	29.3229321
4203901656         Injection/Disposal From Oil         RRC Hardcopy Map         -95.34406488         29.26015506           4203933128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984	4203901734	Injection/Disposal From Oil	Operator Reported Location	-95.3464299	29.2611093
4203933128D1         Injection/Disposal Well         Operator Reported Location         -95.27665745         29.50629927           42039         Injection/Disposal Well         RRC Hardcopy Map         -95.2631826         29.5288984	4203932834	Injection/Disposal From Oil	Operator Reported Location	-95.32627361	29.26013035
42039 Injection/Disposal Well RRC Hardcopy Map -95.2631826 29.5288984	4203901656	Injection/Disposal From Oil	RRC Hardcopy Map	-95.34406488	29.26015506
	4203933128D1	Injection/Disposal Well	Operator Reported Location	-95.27665745	29.50629927
4203933060 Injection/Disposal Well Operator Reported Location -95.26029029 29.50463497	42039	Injection/Disposal Well	RRC Hardcopy Map	-95.2631826	29.5288984
	4203933060	Injection/Disposal Well	Operator Reported Location	-95.26029029	29.50463497

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	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.26674609	29.50469441
	Injection/Disposal Well	RRC Hardcopy Map	-95.2652243	29.52646
	Injection/Disposal Well	Operator Reported Location	-95.26281364	29.5236574
	Injection/Disposal Well	Operator Reported Location	-95.26635487	29.50326683
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2686333	29.5032902
	Injection/Disposal Well	Operator Reported Location	-95.26498866	29.50282265
4203933091D1	Injection/Disposal Well	Coordinates from Operator	-95.25502981	29.52157587
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.3403104	29.5231763
4203930695D1	Injection/Disposal From Oil	Operator Reported Location	-95.2624768	29.50150962
4203933129D1	Injection/Disposal Well	Operator Reported Location	-95.2761806	29.5019212
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2393681	29.5168873
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2557587	29.5191332
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.3403022	29.521771
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2667498	29.5010886
4203933097D1	Injection/Disposal Well	Operator Reported Location	-95.27041219	29.5006044
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2347894	29.5156931
	Injection/Disposal Well	Coordinates from Operator	-95.25823007	29.51764739
	Injection/Disposal From Oil	Coordinates from Operator	-95.25230143	29.51726913
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2523387	29.5168315
	Injection/Disposal From Oil/Gas	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.22869358	29.51067622
	Injection/Disposal From Oil	Operator Reported Location	-95.26721685	29.51662528
	Injection/Disposal From Oil/Gas	RRC Hardcopy Map	-95.2356036	29.5101042
4203900624	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.22635592	29.50874565
4203933081D1	Injection/Disposal From Oil	Coordinates from Operator	-95.26561004	29.51565897
4203900631	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.23040842	29.50574688
4203900342	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2545352	29.5137
4203900343	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2589358	29.5134183
4203933087D1	Injection/Disposal Well	Operator Reported Location	-95.27196065	29.51325372
4203900594	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.24707976	29.50325081
4203900426	Injection/Disposal From Oil	RRC Hardcopy Map	-95.266877	29.5115636
4203900364	Injection/Disposal From Oil	Operator Reported Location	-95.25454996	29.50998376
4203900427	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2669022	29.5098848
4203933197D1	Injection/Disposal Well	Operator Reported Location	-95.25647894	29.50884619
4203900387	Injection/Disposal From Oil	Operator Reported Location	-95.25250217	29.50820225
4203900385	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2544998	29.5081796
4203933112D1	Injection/Disposal Well	Operator Reported Location	-95.25211975	29.5074734
4203933114D1	Injection/Disposal From Oil	Operator Reported Location	-95.25073997	29.50674314
4203900392	Injection/Disposal From Oil	Operator Reported Location	-95.25056287	29.50638286
4203900369	Injection/Disposal From Oil	Operator Reported Location	-95.25445216	29.50630953
4203905126	Injection/Disposal Well	RRC Hardcopy Map	-95.66740905	29.17051046
4203930575	Injection/Disposal From Oil/Gas	RRC Hardcopy Map	-95.5048724	29.2150897
4203932775	Injection/Disposal Well	Coordinates from Operator	-95.23382179	29.13576387
4203930592	Injection/Disposal From Gas	RRC Hardcopy Map	-95.5294069	29.1973634
4203932406D1	Injection/Disposal Well	Operator Reported Location	-95.46718747	29.23313612
4203930781	Injection/Disposal From Gas	RRC Hardcopy Map	-95.8076892	29.1704891
4203904150	Injection/Disposal From Oil	RRC Hardcopy Map	-95.4806161	29.2180976
4203930807	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.7889638	29.1553091
4203902948	Injection/Disposal From Oil	RRC Hardcopy Map	-95.66932421	29.17542006
4203932984	Injection/Disposal Well	Operator Reported Location	-95.16900848	29.22898952
4203930439	Injection/Disposal From Oil	RRC Hardcopy Map	-95.66726137	29.17359092
4203930490	Injection/Disposal From Oil	RRC Hardcopy Map	-95.66131962	29.1726877
	Injection/Disposal Well	Coordinates from Operator	-95.36640592	29.04724002
4203932529	Injection/Disposal Well	Operator Reported Location	-95.2710548	29.0067932
	Injection/Disposal Well	Coordinates from Operator	-95.51706393	29.11399441
4203932854D1	Injection/Disposal From Gas	Operator Reported Location	-95.5802762	29.11170757
4203933233	Injection/Disposal Well	Coordinates from Operator	-95.59652294	29.02215493
4203933247	Injection/Disposal Well	Operator Reported Location	-95.59499244	29.02056481
	Injection/Disposal Well	Coordinates from Operator	-95.59990927	29.01888496
	Injection/Disposal Well	Coordinates from Operator	-95.59781671	29.01732363
	Injection/Disposal Well	Coordinates from Operator	-95.60170112	29.01723293
	Injection/Disposal Well	Coordinates from Operator	-95.59971515	29.01557254
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4203930414	Injection/Disposal Well	Operator Reported Distances	-95.3367336	29.0762196
	Injection/Disposal Well	RRC Hardcopy Map	-95.3370993	29.0742426
4203980805	Injection/Disposal Well	RRC Hardcopy Map	-95.7526813	29.0464384
4203931250	Injection/Disposal Well	RRC Hardcopy Map	-95.7530916	29.0460438
4203903949	Injection/Disposal From Oil/Gas	RRC Hardcopy Map	-95.7000177	29.061812
4203931166	Injection/Disposal From Gas	Operator Reported Location	-95.6957743	28.9898268
4203932971	Injection/Disposal From Oil	Operator Reported Location	-95.24417312	29.49562195
4203932507	Injection/Disposal From Oil	Operator Reported Location	-95.65974117	29.16720223
4203933084D1	Injection/Disposal Well	Operator Reported Location	-95.27155569	29.50657776
4203900162	Injection/Disposal From Oil/Gas	RRC Hardcopy Map	-95.33592934	29.51048094
4203933194D1	Injection/Disposal Well	Coordinates from Operator	-95.259283	29.524749
4203933093D1	Injection/Disposal Well	Coordinates from Operator	-95.2592006	29.52296616
4203902194	Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.73059276	29.29650977
4203932972	Injection/Disposal From Oil	Operator Reported Location	-95.24596373	29.49913799
4203900709	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24515703	29.49268991
4203932533	Injection/Disposal From Oil	Operator Reported Location	-95.29029124	29.44623118
4203900789	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24941979	29.48524107
4203933167D1	Injection/Disposal From Oil	Coordinates from Operator	-95.263222	29.493049
4203931563	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24692612	29.49589688
4203903051	Injection/Disposal From Oil	RRC Hardcopy Map	-95.66782698	29.17217367
4203900976	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.19306228	29.30604581
4203900340	Injection/Disposal From Oil	RRC Hardcopy Map	-95.25283068	29.51339503
4203900432	Injection/Disposal From Oil	RRC Hardcopy Map	-95.26883228	29.50668144
4203900421	Injection/Disposal From Oil	RRC Hardcopy Map	-95.26485322	29.505131
4203930511	Injection/Disposal From Oil	RRC Hardcopy Map	-95.25881423	29.49537497
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2537691	29.51363342
	Injection/Disposal From Oil	Operator Reported Location	-95.25590354	29.50940978
4203920364	Injection/Disposal From Oil	RRC Hardcopy Map	-95.26767526	29.50217623
4203901106	Injection/Disposal From Oil	RRC Hardcopy Map	-95.25366258	29.48788074
	Injection/Disposal From Oil	Operator Reported Location	-95.5751069	29.32266465
4203930331	Injection/Disposal From Oil	RRC Hardcopy Map	-95.23933272	29.47986818
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.32947023	29.48877653
	Injection/Disposal From Oil	Operator Reported Location	-95.2419194	29.49383771
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24949329	29.48977328
	Injection/Disposal From Oil	Operator Reported Location	-95.24639972	29.50037933
	Injection/Disposal Well	Operator Reported Location	-95.27652081	29.4930706
	Injection/Disposal Well	Coordinates from Operator	-95.56253956	28.99027282
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24859098	29.50265985
	Injection/Disposal Well	Coordinates from Operator	-95.263554	29.519063
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24846081	29.49058902
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2488892	29.49531428
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24536293	29.49267397
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.26280045	29.50588128
	Injection/Disposal Well	Operator Reported Location	-95.27699026	29.51492541
	Injection/Disposal Well Injection/Disposal From Oil	USGS 7.5 Minute Quadrangle or Aerial Photograph	-95.76384627	29.28023798
	Injection/Disposal From Oil	Operator Reported Location	-95.25543924	29.50564908
	Injection/Disposal Well	Operator Reported Location	-95.25535431	29.50565527
	Injection/Disposal From Oil	Operator Reported Location	-95.26485796	29.50892052
	Injection/Disposal From Oil	Operator Reported Location	-95.24835781	29.50265978
	Injection/Disposal Well	Operator Reported Location	-95.25291124	29.51270942
4203933039D1 4203933040D1	Injection/Disposal Well	Operator Reported Location	-95.25316242	29.50735928
4203933040D1 4203933195H1	Injection/Disposal Well	Operator Reported Location	-95.25086312	29.51064863
	Injection/Disposal From Oil	Coordinates from Operator	-95.26908141	29.5112772
	Injection/Disposal From Oil	Operator Reported Location	-95.25673144	29.5112772
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.2533188	29.31332379
	Injection/Disposal From Oil Injection/Disposal Well	Coordinates from Operator	-95.25848056	29.4931098
	Injection/Disposal Well	Operator Reported Location	-95.25443571	29.51041083
	Injection/Disposal Well		-95.25443571	29.32362185
	Injection/Disposal Well	Operator Reported Location Operator Reported Location	-95.26257312	29.52362185
	• •			
	Injection/Disposal From Oil	RRC Hardcopy Map	-95.32685795	29.50123482
4203901887	Injection/Disposal From Oil/Gas	Operator Reported Location	-95.57547003	29.31202822

4203931433	Injection/Disposal From Oil	RRC Hardcopy Map	-95.24447954	29.4864685
4203933292D1	Injection/Disposal Well	Operator Reported Location	-95.24489238	29.49637764
4203931261	Injection/Disposal From Oil	RRC Hardcopy Map	-95.22972234	29.50025194
4203900348	Injection/Disposal From Oil	Operator Reported Location	-95.26057788	29.51141071
4203900425	Injection/Disposal From Oil	Operator Reported Location	-95.26470816	29.51130889
4203901133	Injection/Disposal From Oil	Operator Reported Location	-95.27096793	29.49905487
4203932727	Injection/Disposal Well	Operator Reported Location	-95.56822274	29.32130005

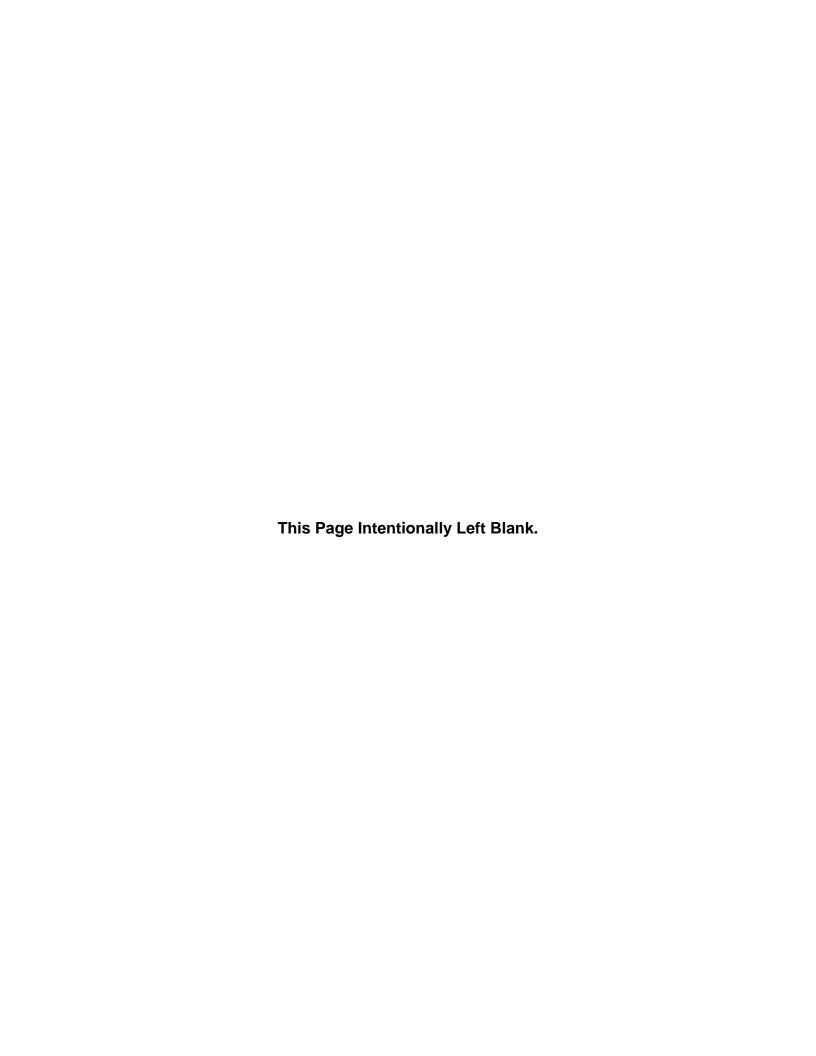
<sup>&</sup>lt;sup>1</sup>No new injection wells were identified within the District for FY 2022.

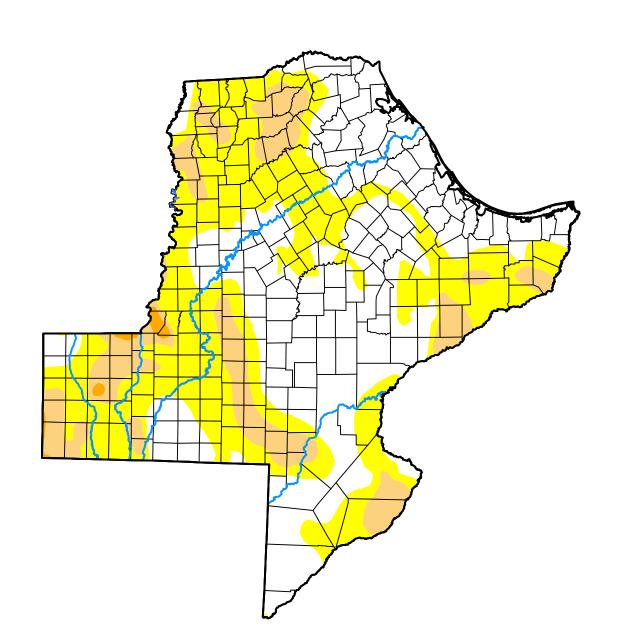
<sup>&</sup>lt;sup>2</sup>Position given for bottom well location.

<sup>&</sup>lt;sup>3</sup>Horizontal datum: North American Datum of 1927.

<sup>&</sup>lt;sup>4</sup>Wells highlighted in grey are missing information in the API Number

#### Appendix D U.S. Drought Monitor Monthly Summaries





### October 12, 2021

(Released Thursday, Oct. 14, 2021)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4 D2-D4 D3-D4	D2-D4	D3-D4	D4
Current	46.74	53.26	14.58	0.53	00:00	0.00
<b>Last Week</b> 10-05-2021	52.05	44.95	8.26	0.27	0.00	0.00
3 Months Ago 07-13-2021	91.38	8.62	5.34	1.16	00:00	0.00
Start of Calendar Year	8.80	91.20	81.11	50.33	30.09	13.03
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 10-13-2020	52.46	47.54	36.22	23.76	13.67	3.29
10-13-2020						

#### Intensity:

None	D0 Abnormally Dry













D4 Exceptional Drought D1 Moderate Drought

The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### Author:

NOAA/NWS/NCEP/CPC Adam Hartman









### **November 9, 2021**

(Released Thursday, Nov. 11, 2021)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D0-D4 D1-D4 D2-D4 D3-D4	D3-D4	D4
Current	38.58	61.42	32.22	5.62	00.00	0.00
Last Week 11-02-2021	38.20	61.80	32.90	6.44	0.00	0.00
3 Months Ago 08-10-2021	92.04	96'2	1.35	00.00	00.00	0.00
Start of Calendar Year	8.80	91.20	81.11	50.33	30.09	13.03
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 11-10-2020	15.71	84.29	56.86	30.67	19.33	8.61

#### Intensity:

None	2	









D2 Severe Drought





D4 Exceptional Drought D1 Moderate Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

<u>Author:</u>

Curtis Riganti

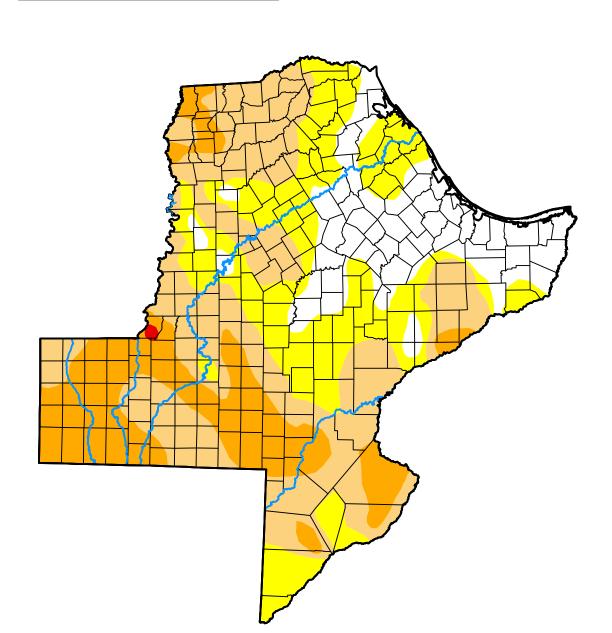
National Drought Mitigation Center











### **December 7, 2021**

(Released Thursday, Dec. 9, 2021)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	None D0-D4 D1-D4 D2-D4 D3-D4	D3-D4	D4
Current	18.80	81.20	55.01	20.05	0.14	0.00
<b>Last Week</b> 11-30-2021	28.64	71.36	49.01	17.09	0.00	0.00
3 Months Ago 09-07-2021	89.25	10.75	0.48	00.00	0.00	0.00
Start of Calendar Year 12-29-2020	8.80	91.20	81.11	50.33	30.09	13.03
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 12-08-2020	5.22	94.78	79.18	45.18	25.16	13.03

#### Intensity:

None	D0 Abnor













D4 Exceptional Drought D1 Moderate Drought The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### <u>Author:</u>

David Simeral

Western Regional Climate Center









### January 11, 2022

(Released Thursday, Jan. 13, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4 D2-D4	D2-D4	D3-D4	D4
Current	3.21	62'96	82.48	62.44	21.91	0.00
<b>Last Week</b> 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
3 Months Ago 10-12-2021	46.74	53.26	14.58	0.53	00:00	0.00
Start of Calendar Year 01-04-2022	85.7	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 01-12-2021	31.28	68.72	48.02	32.25	18.62	5.97

#### Intensity:

None	













D4 Exceptional Drought D1 Moderate Drought The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

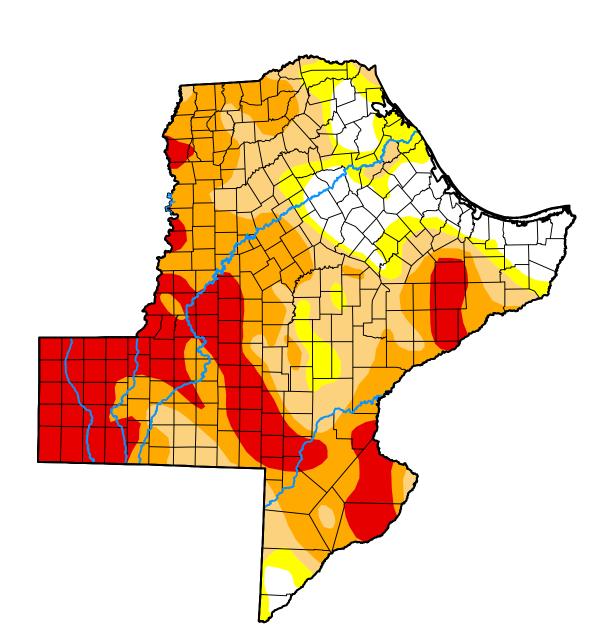
CPC/NOAA/NWS/NCEP Richard Tinker











### **February 8, 2022**

(Released Thursday, Feb. 10, 2022) Valid 7 a.m. EST

### Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D0-D4 D1-D4 D2-D4	D3-D4	D4
Current	11.83	88.17	78.09	55.00	23.88	0.00
<b>Last Week</b> 02-01-2022	7.04	92.96	83.79	69.20	31.56	0.00
3 Months Ago 11-09-2021	38.58	61.42	32.22	5.62	00:00	0.00
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 02-09-2021	25.73	74.27	46.98	30.24	18.16	5.56

#### Intensity:

None	











D4 Exceptional Drought

D1 Moderate Drought

The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

**Deborah Bathke** 

National Drought Mitigation Center









### March 8, 2022

(Released Thursday, Mar. 10, 2022)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4	D2-D4	D3-D4	D4
Current	3.95	90'96	89.93	68.43	36.38	68.9
<b>Last Week</b> 03-01-2022	99.9	93.34	80.71	56.71	24.47	0.00
3 Months Ago 12-07-2021	18.80	81.20	55.01	20.05	0.14	0.00
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 03-09-2021	10.83	89.17	62.49	32.36	18.27	6.11

#### Intensity:

None	









D2 Severe Drought



D4 Exceptional Drought D1 Moderate Drought The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

**Brian Fuchs** 

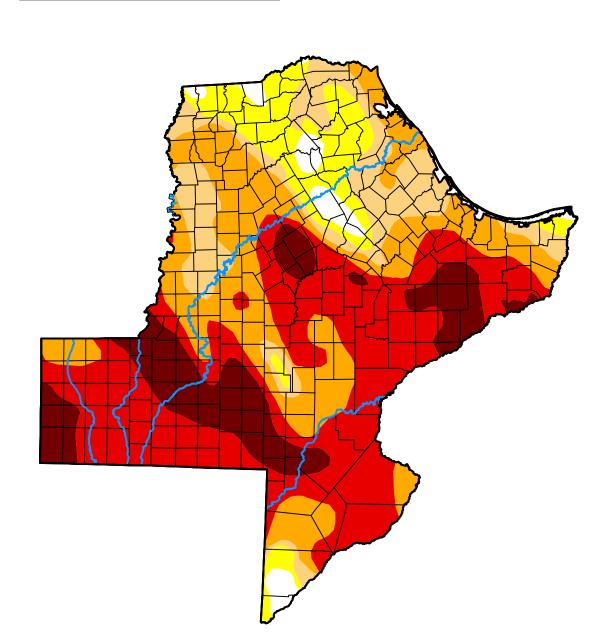
National Drought Mitigation Center











### April 12, 2022

(Released Thursday, Apr. 14, 2022) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4	D2-D4	D3-D4	D4
Current	2.87	97.13	99'28	74.12	49.11	14.20
<b>Last Week</b> 04-05-2022	4.95	90.36	84.73	71.45	40.56	9.78
3 Months Ago 01-11-2022	3.21	62'96	82.48	62.44	21.91	0.00
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 04-13-2021	8.22	91.78	75.19	39.61	24.29	8.53

#### Intensity:

O Abnormal
DO Ahn











D4 Exceptional Drought D1 Moderate Drought The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

CPC/NOAA/NWS/NCEP Richard Tinker









### May 10, 2022

(Released Thursday, May. 12, 2022) Valid 8 a.m. EDT Drought Conditions (Percent Area)

	None	D0-D4	None D0-D4 D1-D4 D2-D4 D3-D4	D2-D4	D3-D4	D4
Current	10.54	89.46	79.23	68.09	52.96	24.53
<b>Last Week</b> 05-03-2022	8.83	91.17	80.02	67.29	50.91	23.19
3 Months Ago 02-08-2022	11.83	88.17	78.09	55.00	23.88	0.00
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 05-11-2021	34.32	89.59	44.28	27.69	16.88	7.85

#### Intensity:

None	D0 Abnormally Dry













D4 Exceptional Drought

D1 Moderate Drought

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Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

David Simeral

Western Regional Climate Center









### June 7, 2022

(Released Thursday, Jun. 9, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D0-D4 D1-D4 D2-D4 D3-D4	D3-D4	D4
Current	11.75	88.25	78.81	64.99	40.11	15.60
Last Week 05-31-2022	14.11	85.89	78.44	66.35	44.07	17.91
3 Months Ago 03-08-2022	3.95	96.05	89.93	68.43	36.38	6:39
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 06-08-2021	77.24	22.76	12.57	7.71	4.47	1.16

#### Intensity:

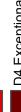
None	D0 Abnor











D4 Exceptional Drought D1 Moderate Drought The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### Author:

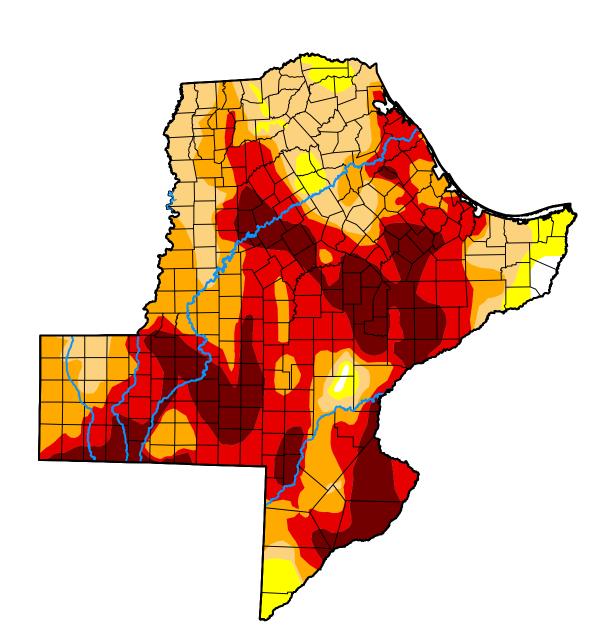
CPC/NOAA **Brad Pugh** 











### July 12, 2022

(Released Thursday, Jul. 14, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4	D2-D4	D3-D4	D4
Current	92.0	99.24	93.82	75.70	51.80	21.32
Last Week 07-05-2022	2.47	97.53	86.79	66.05	45.91	16.11
3 Months Ago 04-12-2022	2.87	97.13	99'28	74.12	49.11	14.20
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 07-13-2021	91.38	8.62	5.34	1.16	0.00	0.00

#### Intensity:

None	











D4 Exceptional Drought

D1 Moderate Drought

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Local conditions may vary. For more information on the
Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### **Author:**

**Brian Fuchs** 

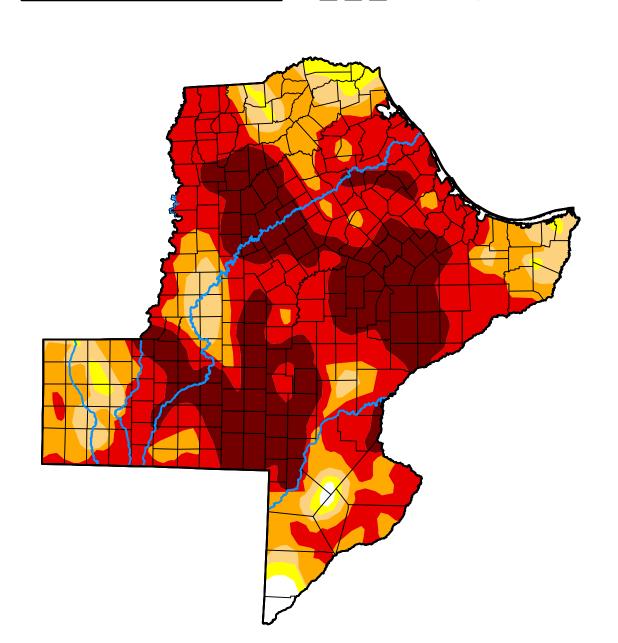
National Drought Mitigation Center











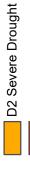
### August 9, 2022

(Released Thursday, Aug. 11, 2022) Valid 8 a.m. EDT Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D0-D4 D1-D4 D2-D4 D3-D4	D3-D4	D4
Current	1.03	26.86	08.30	87.50	68.21	29.09
Last Week 08-02-2022	0.82	99.18	97.11	87.92	61.86	21.31
3 Months Ago 05-10-2022	10.54	89.46	79.23	68.09	52.96	24.53
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 08-10-2021	92.04	7.96	1.35	00.00	0.00	0.00

#### Intensity:

	bnormally Dry
None	D0 Ab













D4 Exceptional Drought D1 Moderate Drought

Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx The Drought Monitor focuses on broad-scale conditions.

#### **Author:**

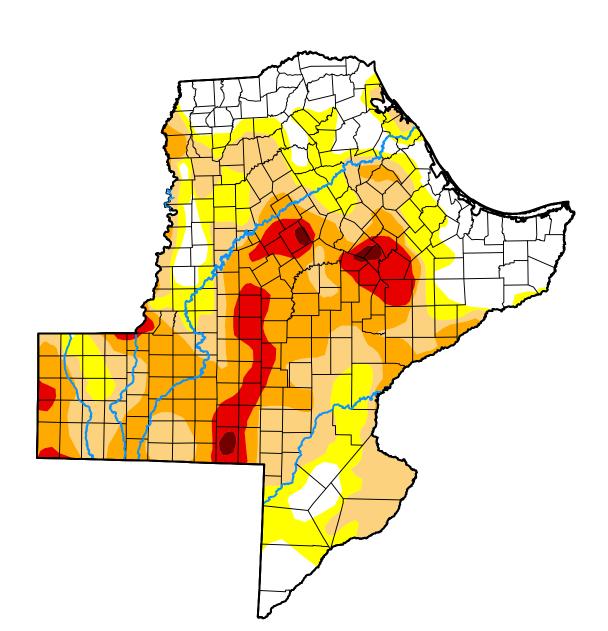
CPC/NOAA/NWS/NCEP Richard Tinker











### September 13, 2022

(Released Thursday, Sep. 15, 2022)

Valid 8 a.m. EDT

### Drought Conditions (Percent Area)

	None	D0-D4	D0-D4 D1-D4	D2-D4	D3-D4	D4
Current	21.62	78.38	26.63	31.92	8.34	0.62
<b>Last Week</b> 09-06-2022	20.57	79.43	62.32	33.57	9.26	06.0
3 Months Ago 06-14-2022	8.59	91.41	79.97	64.03	42.47	16.78
Start of Calendar Year 01-04-2022	7.58	92.42	79.83	54.25	16.69	0.00
Start of Water Year 09-28-2021	45.57	54.43	7.26	0.27	0.00	0.00
One Year Ago 09-14-2021	81.07	18.93	2.63	0.00	0.00	0.00
				1	1	

#### Intensity:

None	









D2 Severe Drought



D4 Exceptional Drought

D1 Moderate Drought

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Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### <u>Author:</u>

David Simeral

Western Regional Climate Center

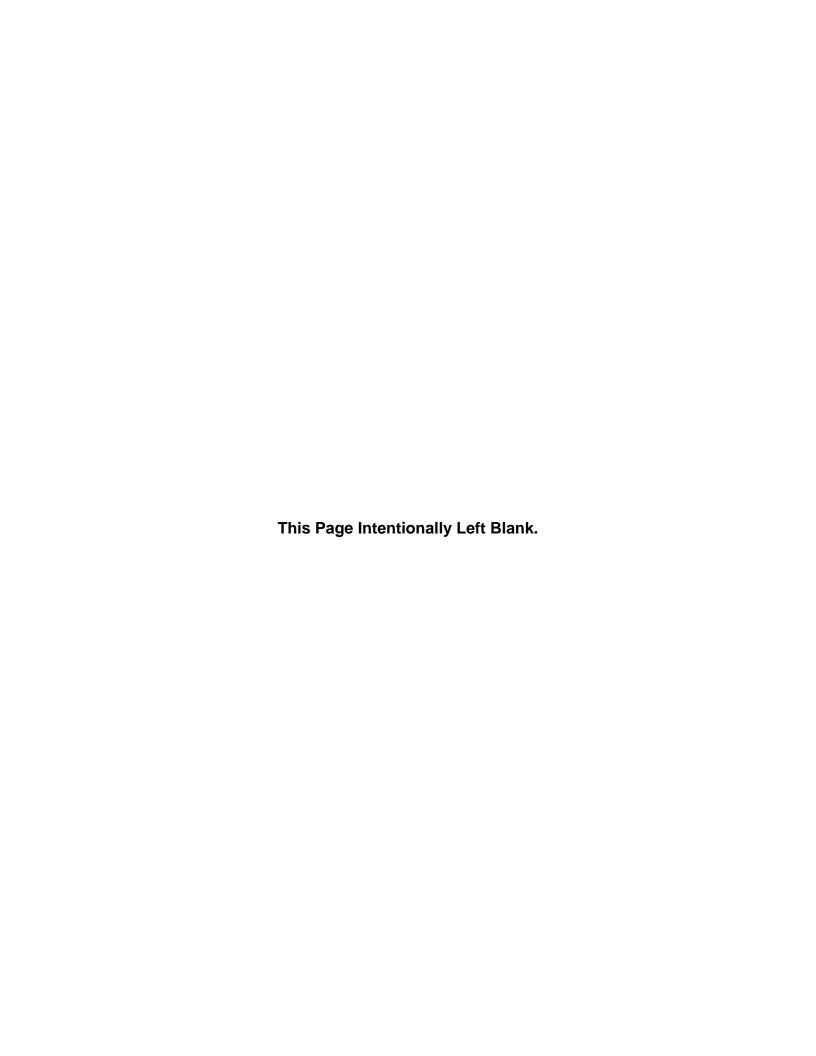








#### Appendix E District Financials FY 2021 Audit



#### BRAZORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

ANNUAL FINANCIAL REPORT

FOR THE YEAR ENDED SEPTEMBER 30, 2021



8 WEST WAY COURT LAKE JACKSON, TEXAS 77566

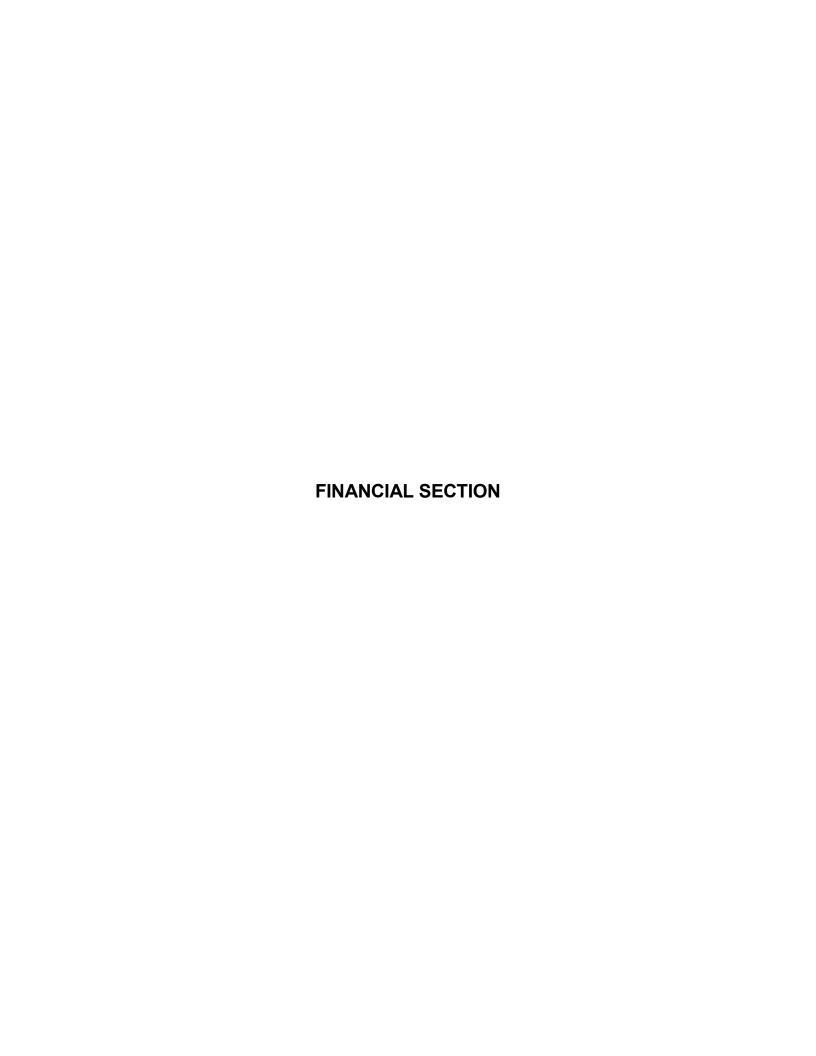


# Annual Financial Report For the Year Ended September 30, 2021

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# **Independent Auditor's Report**

To the Board of Directors
Brazoria County Groundwater Conservation District
451 N. Velasco Street, #290
Angleton, TX 77515

We have audited the accompanying financial statements of the governmental activities and general fund of the Brazoria County Groundwater Conservation District (the "District"), as of and for the year ended September 30, 2021, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

## Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

## Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.



Brazoria County Groundwater Conservation District Page 2

# **Opinions**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities and general fund of the District, as of September 30, 2021, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Other Matters**

## Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 9 through 13 and page 37, respectively, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

KM&L, LLC

Lake Jackson, Texas February 24, 2022

Management's Discussion and Analysis For the Year Ended September 30, 2021

As directors of Brazoria County Groundwater Conservation District (the "District"), we offer readers of the District's financial statements this narrative overview and analysis of the financial activities of the District for the fiscal year ended September 30, 2021.

# **Financial Highlights**

- The assets and deferred outflows of resources of the District exceeded its liabilities and deferred inflows of resources at the close of the most recent fiscal year by \$ 1,705,485 (net position). This is an increase in net position of \$83,244 from the prior year net position of \$ 1,622,241.
- As of the close of the current fiscal year, the District's governmental fund reported an ending fund balance of \$ 1,677,749. The fund balance represents 353.57% of current year expenditures.

### **Overview of the Financial Statements**

This discussion and analysis is intended to serve as an introduction to the District's basic financial statements. The District's basic financial statements are comprised of three components: 1) government-wide financial statements, 2) fund financial statements, and 3) notes to the financial statements. This report also contains required supplemental information in addition to the basic financial statements themselves.

**Government-wide financial statements**. The *government-wide financial statements* are designed to provide readers with a broad overview of the District's finances, in a manner similar to a private-sector business.

The *statement of net position* presents information on all of the District's assets and deferred outflows of resources and liabilities and deferred inflows of resources, with the difference between these four reported as net position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the District is improving or deteriorating.

The *statement of activities* presents information showing how the District's net position changed during the fiscal year. All changes in net position are reported when the underlying event giving rise to the change occurs, regardless of the timing of related cash flows. Thus, revenues and expenses are reported in this statement for some items that will only result in cash flows in the future fiscal periods.

Both of the government-wide financial statements distinguish functions of the District that are principally supported by fees. The *governmental activities* of the District include general government and administration, and groundwater conservation.

The government-wide financial statements can be found on pages 16 and 17 of this report.

Management's Discussion and Analysis For the Year Ended September 30, 2021

**Fund Financial Statements**. A *fund* is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The District, like other state and local governments, uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. The District has only one major fund, which is the general fund, and is reported as a governmental fund.

Governmental Funds. Governmental funds are used to account for essentially the same
functions reported as governmental activities in the government-wide financial statements.
However, unlike the government-wide financial statements, governmental fund financial
statements focus on current sources and uses of spendable resources, as well as on
balances of spendable resources available at the end of the fiscal year. Such information
may be useful in evaluating a government's near-term financing requirements.

Because the focus of governmental funds is narrower than that of the government-wide financial statements, it is useful to compare the information presented for governmental funds with similar information presented for governmental activities in the government-wide financial statements. By doing so, readers may better understand the long-term impact of the government's near-term financing decisions. Both the governmental fund balance sheet and the governmental fund statements of revenues, expenditures, and changes in fund balance provide a reconciliation to facilitate this comparison between governmental funds and governmental activities.

The fund financial statements can be found on pages 20 through 23 of this report.

**Notes to the Financial Statements**. The notes provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements. The notes to the financial statements can be found on pages 26 through 34 of this report.

**Other Information**. In addition to the basic financial statements and accompanying notes, this report also presents required supplementary information. The required supplemental information can be found on page 37 of this report.

Management's Discussion and Analysis For the Year Ended September 30, 2021

# **Government-wide Financial Analysis**

As noted earlier, net position may serve over time as a useful indicator of a government's financial position. In the case of the District, assets and deferred outflows of resources exceeded liabilities and deferred inflows of resources by \$ 1,705,485 as of September 30, 2021. Net position of the District's governmental activities increased by \$ 83,244, from net position of \$ 1,622,241.

# **District's Net Position**

		2021	 2020
Current and other assets Capital assets	\$ 	1,687,087 27,736	\$ 1,641,757 <u>-</u>
Total assets	_	1,714,823	 1,641,757
Current and other liabilities		9,338	19,516
Total liabilities	_	9,338	 19,516
Net Position: Net investment in capital assets Unrestricted		27,736 1,677,749	 - 1,622,241
Total net position	\$	1,705,485	\$ 1,622,241

Management's Discussion and Analysis For the Year Ended September 30, 2021

**Governmental Activities:** Governmental activities increased the District's net position by \$83,244. The following table provides a summary of the District's operations for the years ended September 30, 2021 and 2020, respectively.

# **District's Change in Net Position**

		2021		2020
Revenues:				
Program Revenues:		100.001		400
Charges for services	\$	492,824	\$	527,422
General Revenues: Investment income		2,803		8,431
Miscellaneous		34,399		34,900
Miscellarieous		<del>34,333</del>		34,300
Total revenues		530,026		570,753
Expenses:				
General government and administration		345,524		379,034
Groundwater conservation		101,258		37,13 <u>5</u>
Total expenses		446,782	_	416,169
Change in net position		83,244		154,584
Net position - beginning		1,622,241		1,467,657
A	•	4 705 465	•	4 000 044
Net position - ending	\$	<u>1,705,485</u>	\$	<u>1,622,241</u>

# **Financial Analysis of the District's Funds**

As noted earlier, the District uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements.

**Governmental funds**. The focus of the District's governmental fund is to provide information on near-term inflows, outflows, and balances of spendable resources. Such information is useful in assessing the District's financing requirements. In particular, unassigned fund balance may serve as a useful measure of a government's net resources available for spending at the end of the fiscal year.

As of the end of the current fiscal year, the District's governmental fund reported a fund balance of \$ 1,677,749. The unassigned fund balance of \$ 1,672,113 constitutes 99.66% of ending fund balance while the nonspendable fund balance of \$ 5,636 constitutes 0.34% of ending fund balance.

Management's Discussion and Analysis For the Year Ended September 30, 2021

**General Fund Budgetary Highlights**. The District enacted a formal budget for the year ended September 30, 2021. Budgeted expenditures exceeded actual expenditures by \$ 77,813 and budgeted revenues exceeded actual revenues by \$ 19,974.

# **Capital Assets**

The District's investment in capital assets for its governmental activities as of September 30, 2021 amounts to \$27,736 (net of accumulated depreciation). This investment in capital assets includes vehicles. Additional information on the District's capital assets can be found in Note 4 on page 33.

# **Economic Factors and Next Year's Budgets and Rates**

The annual budget is the means by which District's Board of Directors set the direction of the District, and allocate its resources.

In considering the budget for fiscal year 2022, District's Board of Directors considered the following factors:

- Estimated fee revenues of \$ 568,000.
- Employee costs of \$ 268,107.
- Professional services costs of \$ 128,000.

## Request for Information

This financial report is designed to provide a general overview of the District's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Board of Directors, 111 E. Locust Street, Building A-29, Suite 140, Angleton, Texas, 77515.



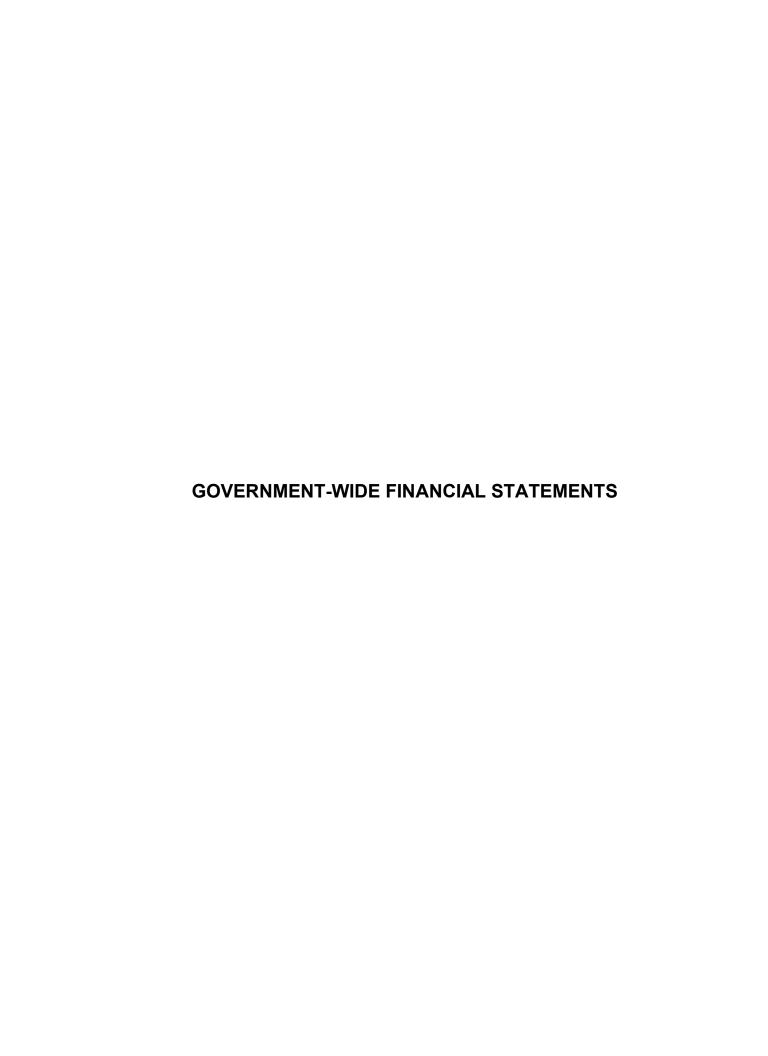


Exhibit A-1

STATEMENT OF NET POSITION

September 30, 2021

	Total Governmental <u>Activities</u>
Assets:  Cash and cash equivalents	\$ 1,671,013
Accounts receivable	10,438
Prepaid expenses Capital Assets:	5,636
Vehicles (net)	27,736
Total assets	1,714,823
Liabilities:	
Accounts payable	986
Accrued wages and related liabilities	9,352
Total liabilities	9,338
Net Position:	
Net investment in capital assets	27,736
Unrestricted	1,677,749
Total net position	\$ <u>1,705,485</u>

Exhibit B-1

STATEMENT OF ACTIVITIES

For the Year Ended September 30, 2021

		Program	Net (Expense) Revenue and Changes in Net Position Primary Government
		Revenues	Total
Functions/Programs	Expenses	Charges for Services	Governmental <u>Activities</u>
GOVERNMENTAL ACTIVITIES:			
General government and administration	\$ 345,524	\$ 492,824	\$ 147,300
Groundwater conservation	101,258	<u> </u>	( 101,258)
Total governmental activities	\$ <u>446,782</u>	\$492,824	46,042
GENERAL REVENUES			2 002
Investment income Miscellaneous			2,803 34,399
Wildociialicous			<del></del>
Total general revenues			37,202
Change in net position			83,244
Net position - beginning			1,622,241
Net position - ending			\$ <u>1,705,485</u>





Exhibit C-1

BALANCE SHEET September 30, 2021

	General Fund
Assets Cash and cash equivalents Accounts receivable Prepaid expenditures	\$ 1,671,013 10,438 5,636
Total assets	\$ <u>1,687,087</u>
Liabilities and Fund Balances Liabilities: Accounts payable Accrued wages and related liabilities	\$ 986 <u>8,352</u>
Total liabilities  Fund Balance: Nonspendable Unassigned	9,338 5,636 1,672,113
Total fund balance	1,677,749
Total liabilities and fund balance	\$ <u>1,687,087</u>

Exhibit C-1R

RECONCILIATION OF THE GENERAL FUND BALANCE SHEET TO THE GOVERNMENTAL ACTIVITIES STATEMENT OF NET POSITION September 30, 2021

Fund balance - general fund balance sheet

\$ 1,677,749

Amounts reported for *governmental activities* in the statement of net position (A-1) are different because:

Capital assets used in governmental activities are not financial resources and therefore are not reported in the fund. Capital assets include \$ 34,670 in assets less \$ 6,934 in accumulated depreciation.

27,736

Net position of governmental activities - statement of net position

\$\_\_1,705,485

Exhibit C-2

STATEMENT OF REVENUES, EXPENDITURES, AND CHANGE IN FUND BALANCE Year Ended September 30, 2021

	General Fund
REVENUES	
Licenses and permits	\$ 492,824
Investment income	2,803
Miscellaneous	<u>34,399</u>
Total revenues	530,026
EXPENDITURES	
Current:	
General Government and Administration:	
Bonds	250
Computer software/equipment	2,065
Conferences and training	720
Dues and licenses	2,934
Employee benefits	75,795
Fuel	4,862
Insurance	4,712
Legal	300
Office supplies	4,231
Postage/freight	1,350
Professional services	58,347
Repairs and maintenance	858
Salaries	181,617
Subscriptions	210
Travel	339
Groundwater Conservation:	70.050
Architecture and engineering	78,258
Legislative	23,000
Capital outlay	34,670
Total expenditures	474,518
Net change in fund balance	55,508
Fund balance - beginning	1,622,241_
Fund balance - ending	\$ <u>1,677,749</u>

Exhibit C-2R

RECONCILIATION OF THE STATEMENT OF REVENUES, EXPENDITURES, AND CHANGE IN FUND BALALNCE OF GENERAL FUND TO GOVERNMENTAL ACTIVITIES STATEMENT OF ACTIVITIES
September 30, 2021

Net change in fund balance - general fund

\$ 55,508

# Amounts reported for *governmental activities* in the statement of activities (B-1) are different because:

Governmental fund reports capital outlay as expenditure. However, in the governmental activities statement of activities, the cost of those assets is allocated over their estimated useful lives as depreciation expense. The amount by which capital outlay of \$ 34,670 exceeds depreciation expense of \$ 6,934 the current period.

27,736

Change in net position of governmental activities (B-1)

\$ 83,244



# NOTES TO THE FINANCIAL STATEMENTS

# September 30, 2021

Note		Page
1.	Summary of Significant Accounting Policies	26
2.	New Pronouncements	31
3.	Deposits and Investments	32
4.	Capital Assets	33
5.	Contingencies	34
6.	GASB Statement Nos. 68 and 71	34
7.	Evaluation of Subsequent Events	34

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The District was formed on September 1, 2003 by the 78<sup>th</sup> Legislature of the State of Texas in House Bill No. 3602 (the "Act"). Pursuant to the Act, the Board of Directors of the District has the permitting and general management powers granted under Chapter 36 of the Texas Water Code. Section 36.101 of the Texas Water Code authorizes a groundwater conservation district to make and enforce rules to provide for conserving, preserving, protecting, and recharging of the groundwater or of a groundwater reservoir or its subdivisions in order to control subsidence or prevent waste of groundwater and to carry out the powers and duties provided by Chapter 36 of the Texas Water Code. The District board, a five-member elected group, is the level of government that serves to provide groundwater conservation within Brazoria County, Texas.

## **Reporting Entity**

The elected Board of Directors has the authority to make decisions, appoint administrators and managers; significantly influence operations; and has the primary accountability for fiscal matters. Therefore, the District is not included in any other governmental "reporting entity" as defined by GASB in its Statement No. 61, "The Reporting Entity: Omnibus". There are no component units included within the reporting entity.

# **Government-Wide and Fund Financial Statements**

The government-wide financial statements (i.e., the statement of net position and the statement of activities) report financial information on all of the activities of the primary government. The District maintains one fund (General Fund); therefore, there are no interfund activities. The *governmental activities* are supported by fees and loans. The District has no *business-type activities* that rely, to a significant extent, on fees and charges for support.

The statement of activities demonstrates the degree to which the direct expenses of a given function are offset by program revenues. *Direct expenses* are those that are clearly identifiable with a specific function. *Program revenues* include 1) charges to customers or applicants who purchase, use or directly benefit from goods, services, or privileges provided by a given function and 2) grants and contributions that are restricted to meeting operational or capital requirements of a particular function. Other items not properly included among program revenues are reported instead as *general revenues*.

Separate financial statements are provided for governmental funds. Major individual governmental funds are reported in separate columns in the fund financial statements. The General Fund is currently the only fund maintained by the District.

# Measurement Focus, Basis of Accounting, and Financial Statement Presentation

The government-wide financial statements are reported using the *economic resources measurement* focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Fees are recognized as revenues in the year for which they are charged. Grants and similar items are recognized as revenues as soon as all eligibility requirements imposed by the provider have been met.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

## Measurement Focus, Basis of Accounting, and Financial Statement Presentation - Continued

Governmental fund financial statements are reported using the *current financial resources measurement focus* and the *modified accrual basis of accounting*. Revenues are recognized as soon as they are both measurable and available. Revenues are considered to be *available* when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the government considers revenues to be available if they are collected within 60 days of the end of the current fiscal period. Expenditures generally are recorded when a liability is incurred, as under accrual accounting.

Revenues from local sources consist primarily of fees. Fee revenues are recorded as revenue when received in cash because they are generally not measurable until actually received. Investment earnings are recorded as earned, since they are both measurable and available.

Revenue from investments is based upon fair value. Fair value is the amount at which a financial instrument could be exchanged in a current transaction between willing parties, other than in a forced or liquidation sale. Most investments are reported at amortized cost when the investments have remaining maturities of one year or less at time of purchase.

When both restricted and unrestricted resources are available for use, it is the District's policy to use restricted resources first and the unrestricted resources as needed.

The District reports the following major governmental fund:

The General Fund is the government's primary operating fund. It accounts for all financial resources of the District, except those required to be accounted for in another fund. The major revenue source is fees (application, production, export and other administrative). Expenditures include all costs associated with the daily operations of the District. The District has only one fund, the general fund.

## **Budgetary Data**

The budget law of the State of Texas provides that amounts budgeted for current expenditures from the various funds of the District shall not exceed the balances in the funds, plus the anticipated revenues for the current year. The legal level of budgetary control is at the functional level (Current Expenditures: General Government and Administration and Groundwater Conservation, Capital Outlay, and Debt Service) of each fund. Any expenditures, which alter the total budgeted amounts of a fund, must be approved by the Board of Directors, and the budget amended. Budgets are adopted on a basis consistent with generally accepted accounting principles.

During the year ended September 30, 2021, the District Board of Directors enacted a formal budget.

#### **Cash and Investments**

The District considers highly liquid investments with an original maturity of three months or less when purchased to be cash equivalents.

# NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

#### Cash and Investments - Continued

In accordance with GASB Statement No. 31, Accounting and Financial Reporting for Certain Investments and External Investment Pools, investments are reported at fair value. Fair values are based on published market rates. Current investments have an original maturity greater than three months but less than one year at the time of purchase. Non-current investments have an original maturity of greater than one year at the time of purchase.

#### **Fees**

Section 3.31 of the District's Rules authorizes the Board of Directors of the District to establish application fees, production fees, export fees and other administrative fees. Beginning October 1, 2006, each well permit holder shall be responsible for reading the meter which measures the amount of water produced by each permitted well at the end of each month. Each well permit holder shall also be responsible for measuring the amount of water exported outside the District's boundaries during the course of each month. Each well permit holder shall accurately report such production and export measurements to the District on reporting forms provided by the District. Failure to make such production and export measures and report the same to the District shall be a violation of the District's rules. The District shall have the right to audit the production and export measurements submitted by the well permit holder by reading the meter at each permitted well. Failure to maintain meters for accurate reporting shall be a violation of the District's rules. All fees must be paid by check or money order. No cash is accepted. Production fees are invoiced in an amount based on the requested volume of water for the permit term at the rate of \$ 0.03 per 1,000 gallons. Application fees shall be submitted with the permit application. This process is referred to as self-reporting. The validity of any permit is contingent upon payment of any applicable application, export or production fee. Failure to make complete and timely payments of a fee will automatically result in a one-time late payment penalty of thirty (30) percent of the amount not paid. Failure to make complete and timely payment may also result in the Board declaring the respective well permit void and taking legal action against the permittee.

The District adopted the following fee schedule effective August 8, 2019:

Permit Application Fees. The District charges well permit application fees of \$ 100 per well for one-year permits.

Production Fees. The production fee is \$ 0.03 per 1,000 gallons of groundwater authorized to be withdrawn in a permit or permit amendment, and shall be due and payable within 30 days of the date the production fee statement is issued by the District. The minimum production fee is \$ 30 per well.

Export Fees. An export fee of one and a half times the maximum wholesale water rate ("Approved Resale Volume Charge TU73") charged by the City of Houston based on the most recently published "City Fee Schedule" per 1,000 gallons of groundwater exported from the District (this amount is in addition to the Production Fee).

Accounts receivable at September 30, 2021 represent fees invoices but not collected in the amount of \$10,438. The District expects to collect the entire balance, thus no allowance has been recorded.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

# **Long-Term Debt**

In the government-wide financial statements long-term debt and other long-term obligations are reported as liabilities in the applicable governmental activities statement of net position. Debt premiums and discounts are deferred and amortized over the life of the debt using the straight-line method. Debt payable is reported net of the applicable debt premium or discount. Debt issuance costs are reported as expenses in the current period. The District had no outstanding debt balance at September 30, 2021.

In the fund financial statements, governmental fund types recognize debt premiums and discounts and debt issuance costs during the current period. The face amount of the debt is reported as other financing resources. Premiums received on debt issuances are reported as other financing sources while discounts on debt issuances are reported as other financing uses. Issuance costs, whether or not withheld from the actual debt proceeds received, are reported as debt service expenditures.

# **Capital Assets**

Capital assets are reported in the governmental activities columns in the government-wide financial statements. All capital assets are valued at historical cost or estimated historical cost if actual historical is not available. Donated assets are reported at acquisition value. Repairs and maintenance are recorded as expenses. Renewals and betterments are capitalized.

Assets capitalized have an original cost of \$ 5,000 or more and three or more years of useful life. Depreciation has been calculated on each class of depreciable property using the straight-line method. Estimated useful lives are as follows:

Vehicles 5 Years

### **Deferred Outflows and Inflows of Resources**

Guidance for deferred outflows of resources and deferred inflows of resources is provided by GASB No. 63, "Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position". Concepts Statement No. 4, Elements of Financial Statements, introduced and defined those elements as a consumption of net assets that applies to future periods, and an acquisition of net assets that applies to future periods, respectively. Previous financial reporting standards do not include guidance for reporting those financial statement elements, which are distinct from assets and liabilities. Further, GASB No. 65, "Items Previously Reported as Assets and Liabilities", had an objective to either (a) properly classify certain items that were previously reported as assets and liabilities as deferred outflows of resources or deferred inflows of resources or (b) recognize certain items that were previously reported as assets and liabilities as outflows of resources (expenses or expenditures) or inflows of resources (revenues).

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

## **Fund Balance**

The Board of Directors meets on a regular basis to manage and review cash financial activities and to ensure compliance with established policies. The District's unassigned General Fund Balance is maintained to provide the District with sufficient working capital and a margin of safety to address local and regional emergencies without borrowing. The unassigned General Fund Balance may only be appropriated by resolution of the Board of Directors. Fund Balance of the District may be committed for a specific source by formal action of the Board of Directors. Amendments or modifications of the committed fund balance must also be approved by formal action by the Board of Directors.

The District has implemented GASB 54, "Fund Balance, Reporting and Governmental Fund Type Definitions", for its governmental funds. Under this standard, fund balances are required to be reported according to the following classifications:

Nonspendable Fund Balance - Includes amounts that cannot be spent because they are either not in spendable form, or, for legal or contractual reasons, must be kept intact. This classification includes inventories, prepaid amounts, assets held for sale, and long-term receivables.

Restricted Fund Balance - Constraints placed on the use of these resources are either externally imposed by creditors (such as through debt covenants), grantors, contributors or other governments; or are imposed by law (through constitutional provisions enabling legislation).

Committed Fund Balance - Amounts that can only be used for specific purposes because of a formal board resolution by the government's highest level of decision-making authority.

Assigned Fund Balance - Amounts that are constrained by the District's intent to be used for specific purposes, but that do not meet the criteria to be classified as restricted or committed. Intent can be stipulated by the manager of the District. With the exception of the General Fund, this is the residual fund balance classification for all government funds with positive balances.

Unassigned Fund Balance - This is the residual classification of the General Fund. Only the General Fund reports a positive unassigned fund balance. Other governmental funds might report a negative balance in this classification, as the result of overspending for specific purposes for which amounts had been restricted, committed, or assigned.

## **Net Position**

Net position represents the differences between assets and deferred outflows of resources, and liabilities and deferred inflows of resources. Net investment in capital assets, consists of capital assets, net of accumulated depreciations, reduced by the outstanding balances of any borrowing used for the acquisition, construction or improvements of those assets, and adding back unspent proceeds. Restricted net position, as presented in the government-wide Statement of Net Position, are reported when constraints placed on the use of net position are either 1) externally imposed by creditors (such as through debt covenants, grantors, contributors, or laws or regulations of other governments), or 2) imposed by law through constitutional provisions or enabling legislation.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### **NOTE 2. NEW PRONOUNCEMENTS**

GASB issues statements on a routine basis with the intent to provide authoritative guidance on the preparation of financial statements and to improve governmental accounting and financial reporting of governmental entities. Management reviews these statements to ensure that preparation of its financial statements are in conformity with generally accepted accounting principles and to anticipate changes in those requirements. The following recent GASB Statements reflect the action and consideration of management regarding these requirements:

GASB No. 84 "Fiduciary Activities" was issued in January 2017. The statement was implemented and did not have a material effect on the financial statement of the District. The requirements of this Statement are effective for periods beginning after December 15, 2019.

GASB No. 87 "Leases" was issued in June 2017. The management of the District does expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this Statement are effective for periods beginning after June 15, 2021.

GASB No. 88 "Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements" was issued in April 2018. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after December 15, 2020.

GASB No. 89 "Accounting for Interest Cost Incurred before the End of a Construction Period" was issued in June 2018. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after December 15, 2020.

GASB No. 90 "Majority Equity Interests - an amendment of GASB Statements No. 14 and No. 61" was issued in August 2018. The statement was implemented and did not have a material effect on the financial statement of the District. The requirements of this statement are effective for reporting periods beginning after December 15, 2019.

GASB No. 91 "Conduit Debt Obligations" was issued in May 2019. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after December 15, 2021.

GASB No. 92 "Omnibus 2020" was issued in January 2020. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after June 15, 2021.

GASB No. 93 "Replacement of Interbank Offered Rates" was issued in March 2020. The statement was implemented and did not have a material effect on the financial statement of the District. The requirements of this statement are effective for reporting periods beginning after June 15, 2020.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 2. NEW PRONOUNCEMENTS - Continued

GASB No. 94 "Public-Private and Public-Public Partnerships and Availability Payment Arrangements" was issued in March 2020. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after June 15, 2022.

GASB No. 95 "Postponement of the Effective Dates of Certain Authoritative Guidance" was issued in May 2020. The statement was implemented and did not have a material effect on the financial statements of the District. The requirements of this statement are effective immediately.

GASB No. 96 "Subscription-Based Information Technology Arrangements" was issued in May 2020. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after June 15, 2022.

GASB No. 97 "Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans" was issued in June 2020. The management of the District does not expect the implementation of this standard to have a material effect on the financial statements of the District. The requirements of this statement are effective for reporting periods beginning after June 15, 2021.

#### **NOTE 3. DEPOSITS AND INVESTMENTS**

The District contracts with Brazoria County to provide accounting services. As part of this agreement, Brazoria County maintains accounting records for the District as well as a shared cash account as an agency fund for the District. This agency fund cash account is covered by the same depository agreement and pledged securities maintained by Brazoria County.

The District classifies deposits and investments for financial statement purposes as cash and cash equivalents, current investments, and non-current investments based upon both liquidity (demand deposits) and maturity date (deposits and investments) of the asset at the date of purchase. For this purpose an investment is considered a cash equivalent if when purchased it has maturity of three months or less. Investments are classified as either current investments or non-current investments. Current investments have maturity of one year or less and non-current investments are those that have a maturity of one year or more. See Note 1 for additional Governmental Accounting Standards Board Statement No. 31 disclosures.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### NOTE 3. DEPOSITS AND INVESTMENTS - Continued

### **Deposits**

Custodial Credit Risk - Deposits. Custodial credit risk is the risk that in the event of a financial institution failure, the District's deposits may not be returned to them. The District requires that all deposits with financial institutions be collateralized in an amount equal to 100 percent of uninsured balances.

Under Texas state law, a bank serving as the District's depository must have a bond or in lieu thereof, deposited or pledged securities with the District or an independent third party agent, an amount equal to the highest daily balance of all deposits the District may have during the term of the depository contract, less any applicable FDIC insurance.

#### <u>Investments</u>

Chapter 2256 of the Texas Government Code (the Public Funds Investment Act) authorizes the District to invest its funds in areas that primarily emphasizes the safety of principal and liquidity, addresses investment diversification, yield, and maturity and addresses the quality and capability of investment personnel.

The District held no investments at or for the year ended September 30, 2021. Further, as of September 30, 2021, the District has adopted Brazoria County's investment policy, as the County has custody of all cash and investments, when applicable. According to the policy, District funds will be invested in compliance with the Public Funds Investment Act and the County's Investment Policy, except when a resolution is issued by the District. The County will invest according to investment strategies for each fund as they are adopted by the Commissioners' Court resolution.

#### **NOTE 4. CAPITAL ASSETS**

Governmental Activities:	Balance 10/01/20	Additions	Retirements	Balance 9/30/21	
Capital Assets, Being Depreciated: Vehicles	\$	\$34,670	\$	\$34,670	
Total capital assets, being depreciated		34,670		34,670	
Less Accumulated Depreciation For: Vehicles		6,934		6,934	
Total accumulated depreciation		6,934	=	6,934	
Total capital assets, being depreciated, net	\$ <u>-</u>	\$ <u>27,736</u>	\$	\$ <u>27,736</u>	

The total depreciation expense charged to general government and administration amounted to \$6,934.

See Note 1 for additional information regarding capital assets.

### NOTES TO THE FINANCIAL STATEMENTS

September 30, 2021

#### **NOTE 5. CONTINGENCIES**

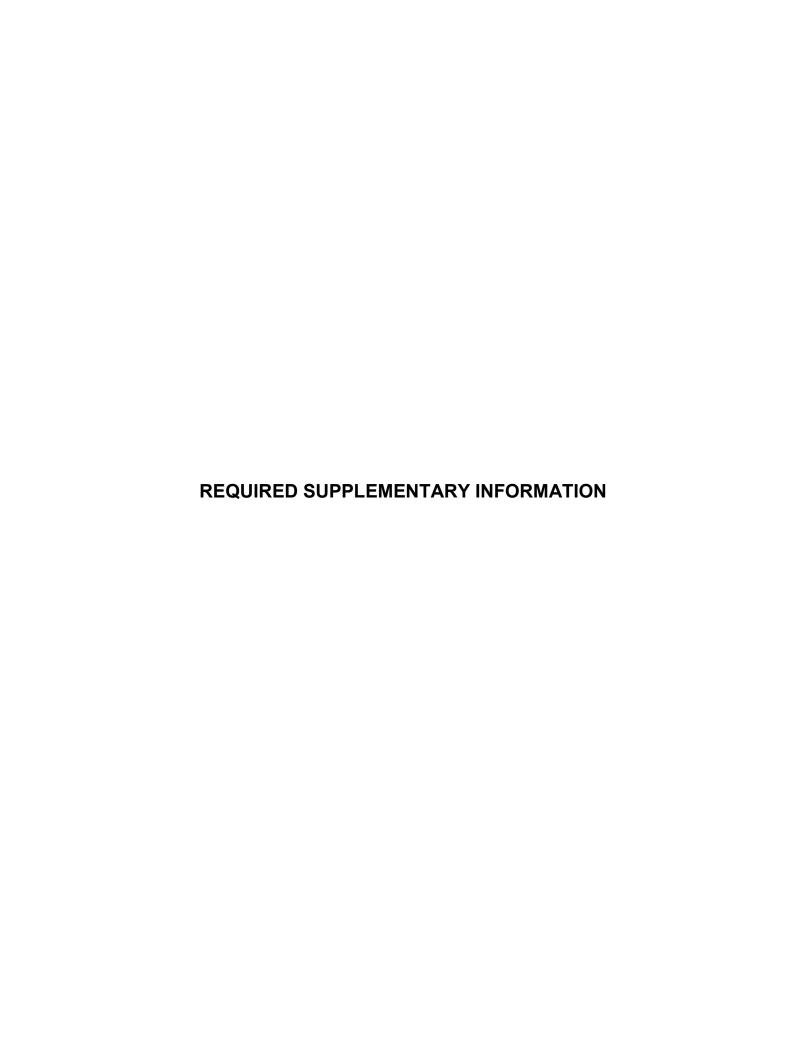
The District is contingently liable in respect to lawsuits and other claims in the ordinary course of its operations. The potential settlement (if any) of such contingencies under the budgetary process would require appropriation of revenues yet to be realized and in the opinion of the District management would not materially affect the financial position of the District at September 30, 2021.

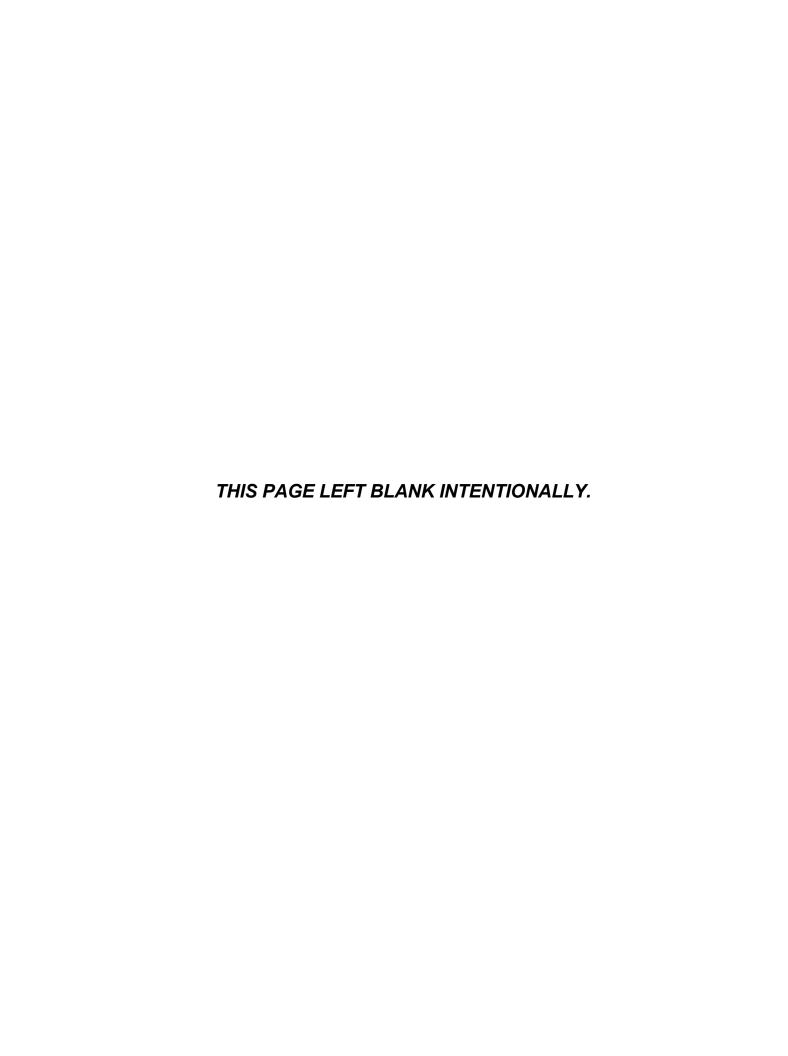
# NOTE 6. GASB STATEMENT NOS. 68, 71 AND 75

No retroactive restatement of net position or component of long term debt has been separated for recognition in the financial statements of Brazoria County Groundwater Conservation District, as the District's piece is immaterial to its financial statements. The Brazoria County financial statements for the year ending September 30, 2021 have reported amounts in total, and contain the appropriate note disclosures related to the adoption of these standards.

### NOTE 7. EVALUATION OF SUBSEQUENT EVENTS

The District has evaluated subsequent events through February 24, 2022, the date which the financial statements were available to be issued.





SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL

Year Ended September 30, 2021

		Pudgoto	dΛm	ounte			Fin	ance with al Budget Positive
		Budgeted Amounts Original Final			-	Actual	(Negative)	
REVENUES								
Licenses and permits	\$	505,000	\$	505,000	\$	492,824	\$(	12,176)
Investment income		10,000		10,000		2,803	(	7,197)
Miscellaneous		35,000	_	35,000	_	34,399	(	<u>601</u> )
Total revenues	_	550,000	_	550,000	_	530,026	(	19,974)
EXPENDITURES								
Current:								
General Government and Administration:								
Advertisement (legal notices)		500		500		-		500
Bonds		500		500		250		250
Books and supplements		100		100		-		100
Building rental		1		1		-		1
Chemicals		300		300		-		300
Communications		2,500		2,500		-		2,500
Computer software/equipment		1,500		2,600		2,065		535
Conferences and training		1,500		1,500		720		780
Dues and licenses		3,000		3,000		2,934		66
Employee benefits		78,242		78,342		75,795		2,547
Fuel		3,000		4,500		4,862	(	362)
Insurance		5,000		5,000		4,712		288
Legal		20,000		20,000		300		19,700
Office supplies		7,900		8,400		4,231		4,169
Postage/freight		2,000		2,000		1,350		650
Printing		200		200		-		200
Professional services		80,000		76,800		58,347		18,453
Repairs and maintenance		10,500		10,500		858		9,642
Salaries		185,388		185,388		181,617		3,771
Subscriptions		200		200		210	(	10)
Travel		13,000		13,000		339		12,661
Groundwater Conservation:								
Architecture and engineering		72,000		72,000		78,258	(	6,258)
Legislative		30,000		30,000		23,000	•	7,000
Capital outlay		35,000	_	35,000	_	34,670		330
Total expenditures		552,331	_	552,331	_	474,518		77,813
Net change in fund balance	(	2,331)	(	2,331)		55,508		57,839
Fund balance - beginning		1,622,241	_	1,622,241		1,622,241		
Fund balance - ending	\$	1,619,910	\$	1,619,910	\$_	1,677,749	\$	57,839

