PAPE-DAWSON ENGINEERS

November 7, 2023

Mr. Kevin Pape
San Antonio LD, LLC
1919 Oakwell Farms Parkway, Suite 110
San Antonio, Texas 78218

Re: Jalou Tract
Phase I Environmental Site Assessment

Dear Mr. Pape:

Please find enclosed a Phase I Environmental Site Assessment report which summarizes our findings on the Jalou Tract property. The subject property is addressed at 1508 US Highway 181 N in Floresville, Wilson County, Texas. We have enjoyed working on this project for San Antonio LD, LLC.

If we may provide further services, please do not hesitate to contact our office.

Sincerely,
Pape-Dawson Engineers, Inc.

Rick Wood, P.E.
Executive Vice President

STATE OF TEXAS
W.R. WOOD
65364
LICENSED
PROFESSIONAL ENGINEER
11/7/23

Heather D. Johnson
Senior Environmental Manager

Attachments

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JALOU TRACT

Phase I Environmental Site Assessment

November 2023

PAPE-DAWSON ENGINEERS

Transportation | Water Resources | Land Development | Surveying | Environmental

JALOU TRACT

Phase I Environmental Site Assessment

November 2023

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1. SUMMARY

Pape-Dawson Engineers, Inc. (Pape-Dawson) conducted a Phase I Environmental Site Assessment (ESA) for the Jalou Tract property addressed at 1508 US Highway 181 N inside the city limits and extra-territorial jurisdiction of the City of Floresville, Wilson County, Texas. This study was conducted in general accordance with American Society for Testing and Materials (ASTM) E 1527-21. The purpose of the assessment was to allow the user of the report, San Antonio LD, LLC, to meet one of the requirements to qualify for Landowner Liability Protections (LLP) to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability. The objective of the study was to identify Recognized Environmental Conditions (RECs), which are defined as the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. RECs include hazardous substances or petroleum products even under conditions in compliance with laws. RECs are not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs.

This Phase I ESA also provides an opinion as to the presence of Controlled RECs (CRECs) and Historical RECs (HRECs). A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances allowed to remain in place subject to the implementation of required controls. A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

This assessment is based on a site visit, research of available documents and databases, and contacts with various regulatory agencies, the report user, owners, previous owners, or occupants (as available). The above-mentioned property is herein referenced as the "subject property."

The majority of the subject property is ranchland with associated equipment and troughs observed throughout the property. Two (2) pole-mounted transformers were observed within the boundary. A pipeline easement, which contains natural gas and crude oil, traverses the central portion of subject property.

The southwestern portion of the subject property contains multiple structures, including a metal warehouse, a barn with animal pens, a house, and an outdoor dog kennel. Fencing for the animals onsite and ranch equipment were observed near the structures. The interior of the house was not observed during the site reconnaissance. One (1) water well and (1) water tank was observed near the dog kennel and house.

Two (2) fuel dispensers with associated manifolded tank vents were identified on the subject property by Pape-Dawson during a previous Phase I ESA conducted in June 2022. The fuel dispensers were considered RECs due to the likelihood that underground storage tanks (USTs) were present onsite. Subsequently, two (2) 1,000-gallon gasoline and diesel USTs were removed from the ground by Mr. Oscar Garcia, a Licensed UST Supervisor on June 11, 2022. Following removal activities, soil samples collected from the bottom of each tank pit and the excavated soil stockpile were reported below laboratory detection limits for contaminants of concern (COCs). Based on the provided documentation, the USTs formerly located onsite do not appear to be a REC.

We have conducted a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-21 of the subject property. Any exceptions to, or deletions from, this practice are described in Section 2 of this report. This assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the property.

Pape-Dawson recommends the water well be plugged in accordance with appropriate state regulations prior to development.

2. INTRODUCTION

2.1 General Site and Legal Descriptions

The subject property is located in Wilson County inside the city limits and extra-territorial jurisdiction of the City of Floresville, Texas at 1508 US Highway 181 N as illustrated on Exhibit 1 in Appendix A. The subject property is primarily ranchland. Four (4) structures were observed on the southwestern portion of the property. One (1) water well and one (1) water tank were observed near the house onsite. A pipeline traverses the central portion of the property. Subject property specific characteristics are depicted on Exhibit 2.

According to the Wilson County Appraisal District, obtained from https://wilson-cad.org/, the subject property consists of one (1) individual parcel. The table below illustrates the corresponding appraisal district identification number along with its associated legal description and total acreage. Information obtained from the Wilson County Appraisal District is attached in Appendix B.

SUMMARY OF OWNER INFORMATION			
Parcel ID	**Property Owner**	**Approximate Parcel Acreage**	**Legal Description**
10309	FLOBAK LTD	123.11	A0001 S & J AROCHA SUR, TRACT 125 & 125B, ACRES 123.107

2.2 Purpose

The purpose of the Phase I ESA is to identify reasonably observable, on site and/or adjacent potential sources of contamination, which could adversely affect the environmental quality of the subject property, and to ascertain the possibility of site contamination that may have resulted from historical use of the subject property. This Phase I ESA was conducted to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser on CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined by the ASTM Standard Practice for ESA, E 1527-21.

This report is prepared in accordance with an agreement between the client and Pape-Dawson and is subject to the limitations and restrictions in that agreement. No services beyond those explicitly stated in the agreement should be inferred or implied.

2.3 Detailed Scope-of-Services

This Phase I ESA was conducted to identify RECs on the subject property and was conducted in accordance with current ASTM standards and Pape-Dawson Engineers, Inc.'s (Pape-Dawson) standard scope of services which are presented below:

(1) obtain information indicating the likelihood of RECs in connection with the subject property;

(2) look for signs of environmental misuse or the presence of hazardous substances;

(3) identify current and past uses of the property and whether the uses involved the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products;
(4) determine the current and past utilization of adjacent tracts;
(5) observe general land uses in the surrounding area;
(6) observe general geologic, hydrogeologic, hydrologic, and topographic conditions;
(7) observe structures, roads, potable water supplies, and sewage disposal systems;
(8) observe operations involving the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products;
(9) identify strong, pungent, or noxious odors and the sources of the odors;
(10) identify hazardous materials or petroleum product storage tanks and containers; pools of liquid; polychlorinated biphenyls (PCB) containing equipment; the fuel sources of heating and cooling systems; stains or corrosion; drains and sumps; pits, ponds, and lagoons; stained soil or pavement; stressed vegetation; solid waste; wastewater; and wells.
(11) identify additional testing required beyond the scope of the Phase I ESA.

The subject property visit was conducted by driving passable roads and walking paths and areas where structures were present and/or material appeared to have been stored or disposed, and observations from the subject property periphery. The interior of the house was not observed during the site reconnaissance.

2.4 Significant Assumptions

This Phase I ESA is intended to minimize, but not eliminate, uncertainty regarding potential for RECs in connection with the subject property with reasonable limits of time and cost. It is assumed that the client, San Antonio LD, LLC, has provided Pape-Dawson with specialized knowledge or experience that is material to RECs in connection with the site, including the reason why the property may have a significantly lower purchase price than comparable properties, if applicable (ASTM E 1527-21 Section 6.5).

In general, groundwater flow direction has been inferred based on topography in the vicinity of the subject property with the assumption that shallow groundwater flow will follow surface topography. No site-specific measurements of groundwater depth and flow direction have been conducted.

Based on this interpretation, Pape-Dawson has reviewed regulatory agency information for facilities that are located in a presumed up gradient direction that, further based on proximity and knowledge of potential contaminant fate and transport, may present a potential impact to the subject property.

Pape-Dawson has reviewed historical aerial photographs in an attempt to determine the past use of the subject property and adjoining properties. Although some uses can be determined, due to the quality and scale of the photographs, few on-site details are identifiable.

2.5 Limitations and Exceptions

Pape-Dawson has endeavored to meet what it believes is the standard of care for the services conducted and, in doing so, is obliged to advise the user of Phase I ESA limitations. Pape-Dawson believes that providing information about limitations is essential to help the user identify and thereby manage risks. These risks can be mitigated, but not eliminated, through additional research opportunities available and the associated costs.

All conclusions, opinions and recommendations in this report are based upon site conditions at the time of Pape-Dawson's site visit and should not be relied upon to represent conditions at later dates.

This report is not intended to be a definitive investigation of possible contamination at the subject property. The purpose and scope of this investigation was to determine if there is reason to suspect the possibility of contamination at the subject property. No exploratory borings, soil or groundwater sampling, or laboratory analyses were conducted at the subject property during the Phase I ESA.

2.6 Special Terms and Conditions

In those instances, where additional services or service enhancements are included in the report as requested or authorized by San Antonio LD, LLC, those services are presented in the scope of work. There are no special terms and conditions.

2.7 User Reliance

This report is prepared for the exclusive use of San Antonio LD, LLC. The scope of services conducted during this investigation may not be appropriate for other users and such use or reuse of this report is unauthorized, unless the prior written approval of Pape-Dawson Engineers, Inc. has been obtained.

3. USER PROVIDED INFORMATION

3.1 Title Records

A title commitment was requested from the client but was not received or reviewed prior to completion of this report. Owner information is summarized in Section 2.1 *General Site and Legal Descriptions*.

3.2 Environmental Liens or Activity and Use Limitations

Activity and use limitations (AULs) are legal or physical restrictions or limitations on the use of, or access to, a property or facility to prevent exposure of hazardous substances or petroleum products. These restrictions may include institutional and engineering controls that may be recorded in a regulatory database or in the restrictions on the record of title.

An environmental lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation or hazardous substances or petroleum products upon a property.

No environmental liens or AULs were identified by the user for the subject property during this assessment.

3.3 Specialized Knowledge

A Phase I ESA was conducted for the property in January 2022 by Astex Environmental Services (AES). AES observed a house with an associated water well, large barn, and kennel onsite. Water troughs were observed throughout the pasture portion of the property. The barn included storage areas for various equipment as well as restaurant supplies. Two (2) gas pumps were observed outside of the barn which appeared to not have been used for 25 years, according to AES. AES indicated that based on observations near the gas pumps, any tanks onsite were likely less than 500 gallons. AES did not identify any RECs in association with Jalou Ranch.

Pape-Dawson conducted a Phase I ESA for the property in June 2022. The property was utilized as agricultural ranchland with multiple agricultural structures and a residential house located onsite. According to the June 2022 ESA, one (1) water well and associated water tank, a pipeline easement, and two (2) fuel dispensers with associated manifolded tank vents were observed onsite. The fuel dispensers were considered RECs due to the likelihood that underground storage tanks (USTs) were present onsite. Pape-Dawson recommended the following:

- Confirm the presence and location of the USTs (either by ground penetrating radar (GPR) or owner information);
- Remove the USTs, if present; and
- Conduct a release determination assessment in conjunction with removal activities.

Pape-Dawson additionally recommended the water well be plugged in accordance with appropriate state regulations prior to development.

San Antonio LD, LLC provided documentation on the removal of the two (2) USTs including the Tank Destroyal Certificate, Invoice, and Laboratory Report as provided in Appendix E. One (1) 1000-gallon gasoline, and one (1) 1000-gallon diesel with fuel dispensers with associated manifolded tank vents were removed from the ground on June 11, 2022 by Mr. Oscar Garcia, a Licensed UST Supervisor. Following excavation activities, soil samples were collected from the bottom of the gasoline tank pit, from the bottom of the diesel tank pit, and from the excavated soil stockpile.

Soil samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) which were reported below laboratory detection limits. Therefore, soil samples collected at the time of removal did not indicate a release or spill. Based on the provided documentation, the USTs formerly located onsite do not appear to be a REC.

3.4 Commonly Known or Reasonably Ascertainable Information

San Antonio LD, LLC has no commonly known or reasonably ascertainable information about the subject property that is material to determining RECs.

3.5 Valuation Reduction for Environmental Issues

Review of the property tax files, site reconnaissance, record review, and interviews did not indicate that the subject property has been devalued because of environmental issues.

3.6 Reason for Performing Phase I ESA

This Phase I ESA was requested by San Antonio LD, LLC as part of their environmental due diligence.

4. RECORDS REVIEW

4.1 Physical Setting Sources

This section describes the general physical and environmental setting of the subject property and surrounding areas.

4.1.1 Topography and Surface Water Characteristics

Exhibit 3 in Appendix A shows the subject property on the *2019 United States Geological Survey (USGS), Floresville, TX Quadrangle* 7.5-Minute series topographic map. Drainage from the subject property is generally towards the east-southeast towards Seguin Branch Stream.

4.1.2 Surface Soil Characteristics

According to the United States Department of Agriculture's (USDA) soil survey information from the USDA website, the soils on the subject property are classified as follows:

SUMMARY OF SOIL CLASSIFICATION		
Soil Classification	**Permeability Rate**	**Corrosion Potential on Unprotected Steel Pipe**
Aluf and Hitilo soils, undulating (EPB)	High	High
Poth loamy fine sand, 0-3 % slopes (PtB)	Slow	Low
Wilco loamy fine sand, 0-3 % slopes (WcB)	Slow	High

4.1.3 Surface Geological Characterization

According to the *Geologic Atlas of Texas - San Antonio Sheet*, the subject property lies within outcrop areas of the Queen City Sand. The Queen City Sand (Eqc) is comprised of fine to medium grained quartz sand. The coloration of the soil in this region varies from gray to brown.

4.1.4 Floodplain Information

According to Flood Insurance Rate Maps for Wilson County, Texas, Map Number 48493C0295C, effective November 26, 2010 (Exhibit 4), the subject property lies primarily within Zone X (areas determined to be outside the 500-year floodplain).

4.1.5 Ground Water Characteristics

The Carrizo-Wilcox Aquifer is the dominant aquifer in the region. The Carrizo-Wilcox Aquifer is a major aquifer extending from the Louisiana border to the border of Mexico in a wide band adjacent to and northwest of the Gulf Coast Aquifer. It consists of the Wilcox Group and the overlying Carrizo Formation of the Claiborne Group. The aquifer is primarily comprised of sand locally interbedded with gravel, silt, clay, and lignite. Although the Carrizo-Wilcox Aquifer reaches 3,000 feet in thickness, the freshwater saturated thickness of the sands averages 670 feet.

There are no water wells listed on the Texas Water Development Board (TWDB) Online Database for the subject property. However, one (1) water well was observed during site reconnaissance on the southeastern portion of the property.

Although no groundwater assessment was conducted as part of this Phase I ESA, based on surface elevations, shallow groundwater probably flows to the east-southeast.

4.2 Historical Use Information of the Property

Standard historical sources (i.e., fire insurance maps, aerial photographs, etc.) are typically used to help determine historical site use. This section provides the "reasonably ascertainable" information obtained from our historical information search of the subject property.

4.2.1 Review of Historic Topographic Maps

The 1936, 1961, 1973, 2016, and 2019 *Floresville, TX* topographic maps, provided by ERIS, were reviewed and no RECs were identified for the subject property (Appendix C).

The pipeline which traverses the central portion of the subject property, is identified in the 1936, 1961, and 1973 topographic maps. No incidents or spills are recorded for the pipeline near the subject property, therefore, the pipeline is not considered a REC.

4.2.2 Review of Aerial Photographs

The subject property is illustrated on the 1938, 1953, 1961, 1973, 1983, 1990, 1995, 2004, 2005, 2008, 2010, 2012, 2014, 2015, 2016, 2018, 2020, and 2023 aerial photographs included in Appendix D. No potential environmental concerns were identified upon review of the historic aerial photographs.

4.2.3 Fire Insurance Maps/City Directories Review

Fire insurance maps are typically published for pre-1960 central business districts. In the late nineteenth century, the Sanborn Company began preparing maps for use by fire insurance companies. No Sanborn Fire Insurance Rate Maps were available for this area of Wilson County.

City directories are published for urban areas and provide listings of residents, businesses, and professional concerns. City directories were reviewed and are summarized below. The City directories review provided by ERIS is attached within Appendix E.

The subject property is identified in the city directories under the address 1508 U.S. Highway 181 as a residential property owned by Jimmy Holt in 2020. No facilities typically associated with RECs were listed within close proximity to the subject property.

4.2.4 History of Property

The subject property was primarily depicted as undeveloped land from the 1938 aerial photograph until the 1961 aerial photograph. The land was cleared by the 1961 aerial photograph to be used as agricultural land. Two (2) structures were added to the property by the 1961 topographic map and are visible by the 1973 aerial photograph near the southeast corner. Additional structures were added on the southwest portion of the property by the 1990 and 1995 aerial photographs.

The natural gas and crude oil pipeline appear to have been installed at least as early as 1936, as the Floresville, TX topographic map depicts a pipeline traversing the central portion of the subject property. A cleared line near where the pipelines are installed was depicted on the 1938, 1953, and 1961 aerial photographs. A renewed clearance of the area where the pipeline is located was depicted in the 2014 and 2015 aerial photographs, suggesting new construction of the pipeline around that time.

4.3 Historical Use Information on Adjoining Properties

The same standard historical sources used in the previous section (i.e., fire insurance maps, aerial photographs, etc.) were used to determine the property use of adjoining properties. Information obtained from the historical sources are summarized in the table below.

HISTORY OF ADJOINING PROPERTIES	
Geographical Direction	**Summary of Adjacent Properties**
Northwest	Northwest of the subject property is depicted as primarily undeveloped land from the 1938 aerial photograph until the 2021 aerial photograph. A cleared line near where the pipelines are installed was depicted on the 1938, 1953, and 1961 aerial photographs. Cleared area for the pipeline is depicted in the 2014 and 2015 aerial photographs.
Northeast	Northeast of the subject property is depicted as agricultural land from the 1938 aerial photograph until the 2021 aerial photograph.
Southwest	Highway 181 is depicted southwest of the subject property from the 1953 aerial photograph until the 2021 aerial photograph. The highway is expanded by the 1983 aerial photograph. Construction of a commercial property is depicted southwest of the subject property and Highway 181 in the 2014 aerial photograph. Construction is complete by the 2016 aerial photograph.
Southeast	Southeast of the subject property is depicted as primarily agricultural and undeveloped land from the 1938 aerial photograph until the 2021 aerial photograph. The mobile home park is depicted adjacent southeast of the subject property in the 2014 aerial photograph. Cleared area for the pipeline is depicted in the 2014 and 2015 aerial photographs.

4.4 Standard Environmental Record Sources

Federal and State Regulatory Listings - Federal (EPA) and state (TCEQ) databases were researched for environmental listings within the area of concern around the subject property (Appendix E).

The ASTM Guidelines for minimum search distances, ASTM E 1527-21 was used in the review of state and federal databases.

4.4.1 List of Recorded Sites

There are no environmental listings reported for the area of concern. The ERIS Radius Map Report is attached in Appendix E.

4.5 Additional Environmental Record Sources

According to the Alamo Area Council of Governments (AACOG), there are no landfills within ½-mile of the subject property.

Pape-Dawson reviewed the online databases for the TCEQ in Austin to ascertain general environmental and developmental land use information regarding the subject property and its immediately surrounding vicinity. The TCEQ maintains online records of underground storage tank installation and removal as well as hazardous material spill incidents. According to the TCEQ databases, no records are available for the subject property. If applicable, additional site information is summarized in Section 4.4.1 List of Recorded Sites.

The Railroad Commission of Texas maintains a database with oil, gas, and pipeline locations and activity status. After review of the Public GIS Map Viewer at http://gis.rrc.texas.gov/GISViewer/, oil and gas operations were identified on the subject property and are summarized below.

Pipelines, identified under ID numbers 255 and 493, were identified traversing the central portion of the subject property. The pipelines are listed as currently in service. No releases were identified for these pipelines on the ERIS Radius Report or the TCEQ Central Registry Query. Therefore, the presence of these pipelines is not considered a REC for the subject property. Details for the pipelines are summarized below.

- A natural gas pipeline, operated by Enterprise Products Operating LLC, was identified as part of the South Texas-TX 150 system.
- A crude oil pipeline, operated by Epic Consolidated OPS, LLC, was identified as part of the Tierra North Pipeline System.
- A crude oil pipeline, operated by The San Antonio Refinery LLC, was identified as part of the Karnes North Gathering System.

5. SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying ASTM RECs in connection with the subject property to the extent not obstructed by bodies of water, adjacent buildings, dense vegetation, or other obstacles.

The subject property and adjoining properties were visually observed on October 25, 2023, by an environmental representative of Pape-Dawson. The purpose of the reconnaissance was to note evidence of RECs. Additionally, reconnaissance of the adjoining properties was conducted to identify land use and the associated potential for producing RECs. Adjacent properties were observed from the subject property and/or public rights-of-way.

Appendix F includes ground level photographs taken during the site reconnaissance.

5.2 General Site Settings

The subject property is addressed at 1508 US Highway 181 N inside the city limits and extra-territorial jurisdiction of the City of Floresville, Wilson County, Texas.

5.3 Exterior and Interior Observations

The subject property is primarily ranchland. Ranching/agricultural equipment and troughs were observed throughout the property. A pipeline easement traverses the central portion of the property. Four (4) structures were observed on the southwestern portion of the property. One (1) water well and one (1) water tank were observed near the structures onsite.

- **Potable Water Supplies:** The structures on the subject property are served by a water well.

- **Sewage Disposal/Septic System:** No septic system was observed during the site visit, however given the existence of a water well onsite, the house and warehouse are likely served by an onsite septic system.

- **Hazardous Substances and Petroleum Products associated with Operations other than Storage Tanks:** Natural gas and crude oil pipelines were observed traversing the central portion of the subject property.

- **Storage Tanks and Associated Equipment:** Two (2) USTs were reported as removed from the site in June 2022. No other aboveground or underground petroleum storage tanks were observed on site. Refer to Section 3.3 for detailed information on the tank removal.

- **Transformer and PCB Equipment:** Two (2) pole-mounted transformers were observed on the subject property. No stained areas, stressed vegetation or other signs of a leaking transformer were observed during the site visit.

- **Fuel Sources of Heating and Cooling Systems:** No heating or cooling systems are utilized on the subject property.

- **On Site Regulated Substances Identification/Inventory:** No regulated substances were observed on the subject property during the site visit.

- **Stains or Corrosion:** No significant stains or corrosion by hazardous substances or petroleum products were observed.

- **Noxious Odors:** No strong, pungent, or noxious odors were detected during the site assessment.

- **Pools of Liquid:** No pools of liquid were observed during the site visit.

- **Drains or Sumps:** No drains or sumps were identified on-site.

- **Pits, Ponds, and Lagoons:** No pits, ponds, or lagoons were observed on-site.

- **Stressed Vegetation:** No stressed vegetation from something other than insufficient rainfall was observed on-site.

- **Solid Waste:** No indications of mounds, depression, or other areas containing trash, construction debris, demolition debris, or other solid waste disposal were observed.

- **Fill Material**: No evidence of fill material being placed on the subject property was observed during the site visit.

- **Wastewater/Storm Water:** No discharge of wastewater or other liquids was observed on-site other than natural flow paths of storm water. No improved drainages or ditches were observed on-site.

5.4 Current Uses of Adjoining Properties

Significant developments of property in the area around the subject property are summarized in the table below:

CURRENT DEVELOPMENT OF ADJOINING PROPERTIES	
Geographical Direction	**Summary of Adjacent Properties**
Northwest	Undeveloped land, Oak Hills Animal Hospital, and The Lumber Outlet are located northwest of the subject property.
Northeast	Undeveloped land is located northeast of the subject property.
Southwest	U.S. Highway 181 and automotive dealerships are located southwest of the subject property.
Southeast	Eagle's Nest R.V. Park, undeveloped land and agricultural land are located southeast of the subject property.

6. INTERVIEWS

6.1 Interview With Owner

Pape-Dawson attempted to contact the current property owner and/or owner representative. As of the date of this report, a response from the current property/representative has not been received. Should the current owner's response change the outcome of this report, an addendum will follow.

6.2 Interview With Site Manager

The subject property does not contain a facility with a manager; therefore, no interviews were conducted.

6.3 Interview With Occupants

No other interviews were conducted besides with the current property owner. As of the date of the report, no response from the current property owner has been received.

6.4 Interview With Local Government Officials

Pape-Dawson contacted the San Antonio River Authority (SARA) to ascertain information regarding surface water within the vicinity of the subject property. Mr. Ronnie Hernandez with SARA stated that there are no records in SARA's databases for the subject property.

Pape-Dawson contacted the Evergreen Underground Water Conservation District (Evergreen UWCD) to see if there are any known environmental concerns regarding the aquifer or groundwater in the area of the subject property. According to Mr. Landon Yosko, Evergreen UWCD does not know of any environmental concerns in this area.

6.5 Interview With Others

No other interviews were conducted besides with the local government officials.

7. EVALUATION

7.1 Findings and Opinions

The majority of the subject property is ranchland with associated equipment and troughs observed throughout the property. Two (2) pole-mounted transformers were observed within the boundary. A pipeline easement, which contains natural gas and crude oil, traverses the central portion of subject property.

The southwestern portion of the subject property contains multiple structures, including a metal warehouse, a barn with animal pens, a house, and an outdoor dog kennel. Fencing for the animals onsite and ranch equipment were observed near the structures. The interior of the house was not observed during the site reconnaissance. One (1) water well and (1) water tank was observed near the dog kennel and house.

One 1000-gallon gasoline, and one 1000-gallon diesel underground petroleum storage tanks (USTs) with fuel dispensers with associated manifolded tank vents were removed in June 2022. According to documentation provided, samples collected at the time of removal did not indicate a release or spill.

Two (2) fuel dispensers with associated manifolded tank vents were identified on the subject property by Pape-Dawson during a previous Phase I ESA conducted in June 2022. The fuel dispensers were considered RECs due to the likelihood that underground storage tanks (USTs) were present onsite. Subsequently, two (2) 1,000-gallon gasoline and diesel USTs were removed from the ground by Mr. Oscar Garcia, a Licensed UST Supervisor on June 11, 2022. Following removal activities, soil samples collected from the bottom of each tank pit and the excavated soil stockpile were reported below laboratory detection limits for contaminants of concern (COCs). Based on the provided documentation, the USTs formerly located onsite do not appear to be a REC.

7.2 Conclusions

We have conducted a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-21 of the subject property. Any exceptions to, or deletions from, this practice are described in Section 2 of this report. This assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the property.

Pape-Dawson recommends the water well be plugged in accordance with appropriate state regulations prior to development.

7.3 Data Gaps

Although the aerial photographs and other historical data may have gaps of 5 years or greater, no significant data gaps were identified that are anticipated to have affected the ability to identify RECs.

As of the date of this report, an interview with the current property owner was unable to be conducted. Based on other historic documentation reviewed, Pape-Dawson does not consider the lack of an owner interview to be a significant data gap.

7.4 Deviations

There were no significant deviations to the ASTM E 1527-21 ESA, Phase I ESA Process and 40 CFR Part 312; Standards and Practices for All Appropriate Inquiries.

8. NON-SCOPE SERVICES

This Phase I ESA did not include any assessments of asbestos containing building materials, radon, lead-based paint, methane, lead in drinking water, formaldehyde, jurisdictional waters, regulatory compliance, archeological resources, industrial hygiene, health and safety, ecological resources, wildlife sanctuaries, indoor air quality, high voltage power lines, biological agents, mold, sinkholes, caves or other karst or geologic features, narcotics, cemeteries, subsurface investigation activities or other services or potential conditions or features not specifically identified and discussed herein.

9. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

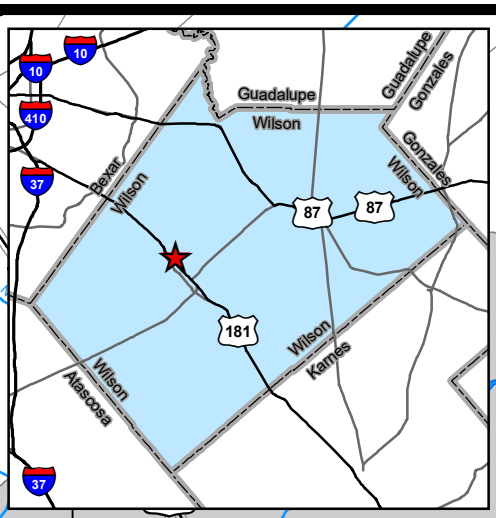
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR § 312; I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and conducted the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Heather D. Johnson
Senior Environmental Manager

APPENDIX A
Exhibits

EXHIBIT 1
Site Location Map

Source: ESRI World Street Map & ESRI World Topographic Map (2021)



DEER TRL

COUNTY ROAD 331

COUNTY ROAD 117

COUNTY ROAD 302

COUNTY ROAD 301

181

KICASTER CREEK

SAN ANTONIO RIVER

SEGUIN BRANCH

NP

N

0 2,000

FEET

1 inch = 2,000 feet 1:24,000

LEGEND

- Project Boundary
- Streams
- Water Bodies

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Date: Oct 31, 2023 2:36:27 PM User: hstultz
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JOB NO.	12739-03
DATE	Oct 2023
DRAWN	HS
CHECKED	HDJ
SHEET	EXHIBIT 1

JALOU TRACT

SITE LOCATION MAP

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

EXHIBIT 2
Site and Vicinity Map

Source: ESRI World Street Map & ESRI World Topographic Map (2021)

LEGEND

- Project Boundary
- Crude Oil & Natural Gas Pipeline
- Water Well/Water Tank

JOB NO.	12739-03
DATE	Nov 2023
DRAWN	HS
CHECKED	HDJ
SHEET	EXHIBIT 2

JALOU TRACT
SITE & VICINITY MAP
2023 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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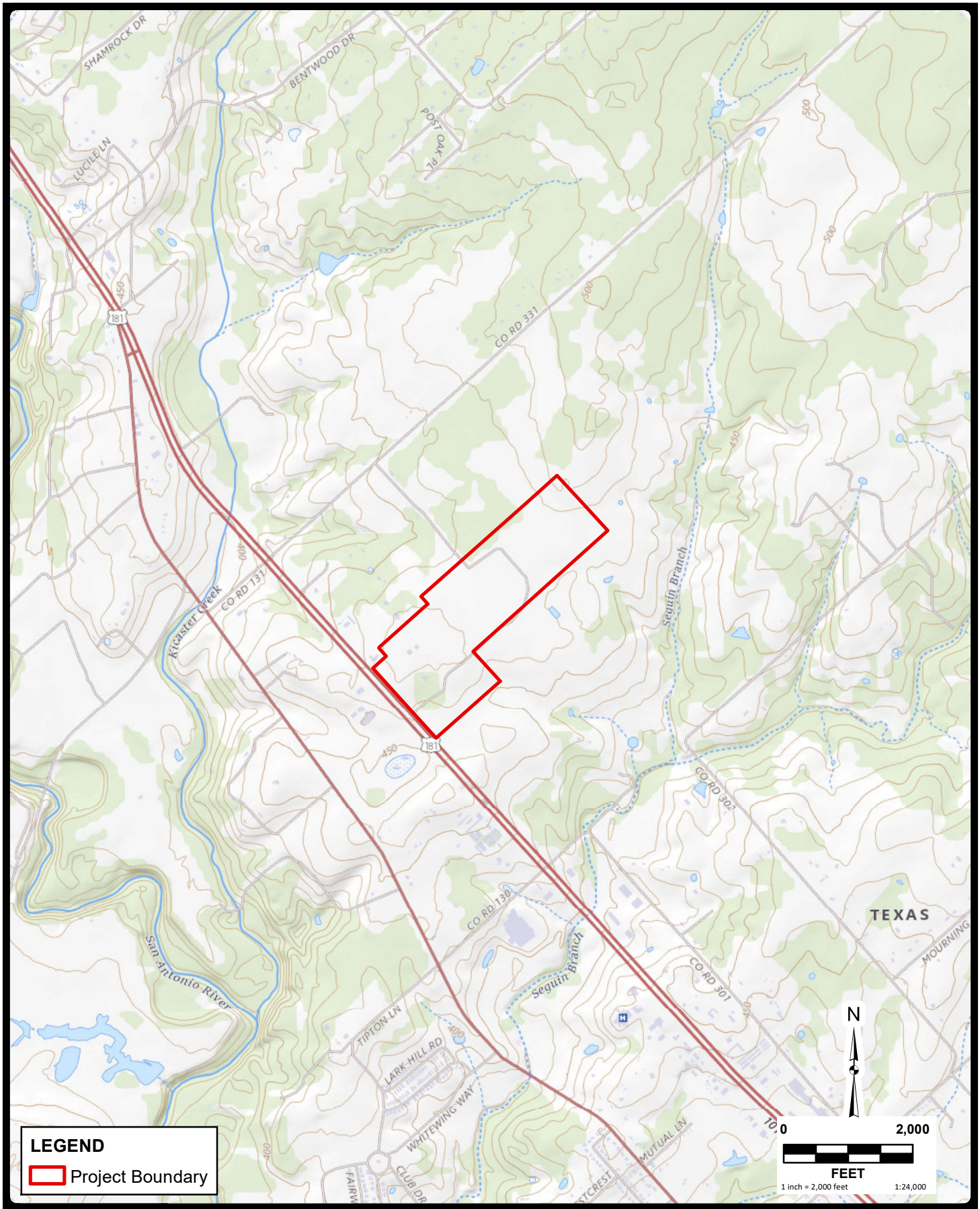
EXHIBIT 3
USGS Topographic Map

Source: ESRI World Street Map & ESRI World Topographic Map (2021)



LEGEND

Project Boundary

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DATE	Oct 2023
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SHEET	EXHIBIT 3

JALOU TRACT

USGS TOPOGRAPHIC MAP (2019)

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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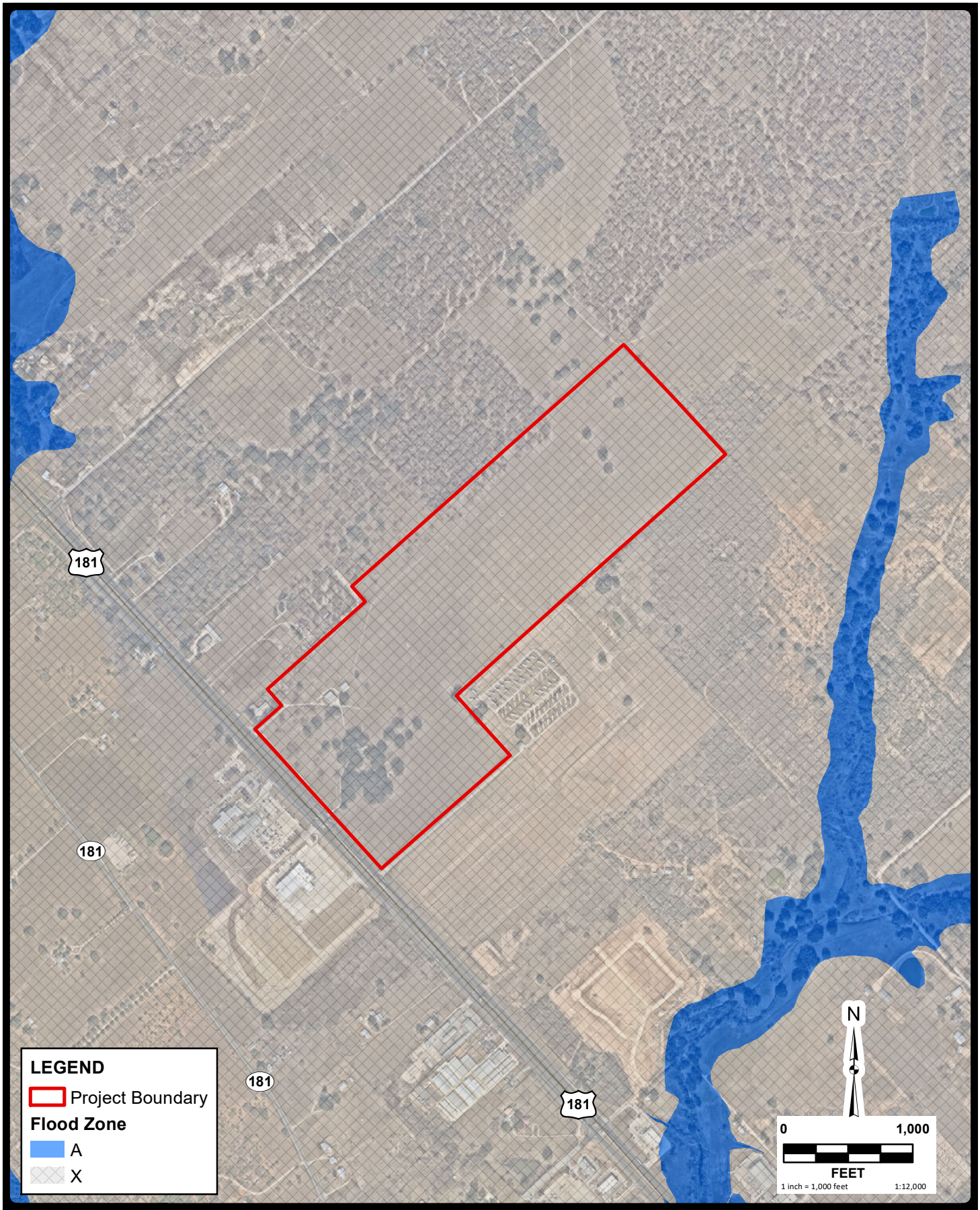
EXHIBIT 4
Floodplain Map

Source: ESRI World Street Map & ESRI World Topographic Map (2021)



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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Oct 2023
DRAWN	HS
CHECKED	HDJ
SHEET	EXHIBIT 4

JALOU TRACT

FEMA FLOODPLAIN MAP
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

APPENDIX B
Ownership Information

County Appraisal District Info

Map

Property Details

Account		
Property ID:	10309	**Geographic ID:** 0001-00000-12500
Type:	Real	
Location		
Situs Address:	1508 US HWY 181 N FLORESVILLE, TX 78114	
Map ID:	39	
Legal Description:	A0001 S & J AROCHA SUR, TRACT 125 & 125B, ACRES 123.107	
Abstract/Subdivision:	A0001 - S & J AROCHA SUR	
Neighborhood:	FL RV10/11	
Owner		
Owner ID:	148634	
Name:	FLOBAK LTD	
Agent:		
Mailing Address:	207 ROOSEVELT AVE SAN ANTONIO, TX 78210	
% Ownership:	100.0%	
Exemptions:	For privacy reasons not all exemptions are shown online.	

Property Values

Improvement Homesite Value:	$0 (+)
Improvement Non-Homesite Value:	$866,480 (+)
Land Homesite Value:	$0 (+)
Land Non-Homesite Value:	$643,920 (+)
Agricultural Market Valuation:	$0 (+)
Market Value:	$1,510,400 (=)
Agricultural Value Loss:	$0 (-)

Appraised Value:	$1,510,400 (=)
Homestead Cap Loss:	$0 (-)
Assessed Value:	$1,510,400
Ag Use Value:	$0

Values displayed are 2023 certified values. For the most current ownership information please change the search year to 2024.

Information provided for research purposes only. Legal descriptions and acreage amounts are for appraisal district use only and should be verified prior to using for legal purpose and or documents. Please contact the Appraisal District to verify all information for accuracy.

Property Taxing Jurisdiction

Owner: FLOBAK LTD **%Ownership:** 100.0%

Entity	Description	Tax Rate	Market Value	Taxable Value	Estimated Tax	Freeze Ceiling
CF	Floresville City	0.430778	$1,112,320	$1,112,320	$4,791.63	
ESD#4	ESD 4	0.095184	$1,510,400	$1,510,400	$1,437.66	
ESD#5	ESD 5	0.100000	$1,510,400	$1,510,400	$1,510.40	
GW	Wilson County	0.413133	$1,510,400	$1,510,400	$6,239.96	
HH	Wilson Co Hosp	0.087034	$1,510,400	$1,510,400	$1,314.56	
SARA	SAN ANTONIO RIVER AUTHORITY	0.018000	$1,510,400	$1,510,400	$271.87	
SF	Floresville ISD	0.906766	$1,510,400	$1,510,400	$13,695.79	
WEU	EVERGREEN UWC DIST	0.004890	$1,510,400	$1,510,400	$73.86	

Total Tax Rate: 2.055785

Estimated Taxes With Exemptions: $29,335.73

Estimated Taxes Without Exemptions: $29,335.73

Property Improvement - Building

Description: RESIDENTIAL **Type:** RESIDENTIAL **State Code:** E1 **Living Area:** 5,394.00sqft **Value:** $735,960

Type	Description	Class CD	Exterior Wall	Year Built	SQFT
SP	SCREEN/ENCLOSED PORCH	9		0	1,068.00
AG	ATTACHED GARAGE	9		0	675.00
OP	COVERED PORCH OR PATIO	9		0	120.00
MA	MAIN AREA	RV9	ST	0	5,394.00

Description: RESIDENTIAL **Type:** RESIDENTIAL **State Code:** E1 **Living Area:** 450.00sqft **Value:** $85,250

Type	Description	Class CD	Year Built	SQFT
OF	OFFICE	*	0	450.00
METAL BLDG	METAL BLDG	PE1	0	3,150.00
SHED STEEL	SHED STEEL (MTL SIDING)	OP1S	0	552.00
SHED STEEL	SHED STEEL (MTL SIDING)	OP2S	0	1,104.00

Description: MISC FARM/RANCH IMPROVEMENTS **Type:** MISC FARM/RANCH IMPROVEMENTS **State Code:** D2 **Living Area:** 0.00sqft **Value:** $45,270

Type	Description	Class CD	Year Built	SQFT
SHED STEEL	SHED STEEL (MTL SIDING)	OP2	0	3,000.00

Property Land

Type	Description	Acreage	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
FISD	FISD RURAL LAND	44.0000	1,916,640.00	0.00	0.00	$230,150	$0
FISD	FISD RURAL LAND	76.1070	3,315,220.92	0.00	0.00	$398,080	$0
FA	FLORESVILLE ACRE	3.0000	130,680.00	0.00	0.00	$15,690	$0

Property Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap Loss	Assessed
2024	N/A	N/A	N/A	N/A	N/A	N/A
2023	$866,480	$643,920	$0	$1,510,400	$0	$1,510,400
2022	$814,655	$643,920	$12,500	$842,845	$291,916	$550,929
2021	$425,780	$68,050	$520	$451,820	$0	$451,820
2020	$425,780	$28,000	$520	$436,800	$0	$436,800
2019	$425,780	$20,400	$520	$433,950	$0	$433,950
2018	$425,780	$20,400	$520	$433,950	$0	$433,950
2017	$425,780	$20,400	$510	$433,940	$0	$433,940
2016	$425,780	$20,400	$510	$433,940	$0	$433,940
2015	$425,780	$20,400	$580	$434,010	$0	$434,010
2014	$425,780	$20,400	$580	$434,010	$0	$434,010
2013	$425,780	$20,400	$580	$434,010	$0	$434,010

Property Deed History

Deed Date	Type	Description	Grantor	Grantee	Volume	Page	Number
1/24/2022	WD/VL	WARRANTY DEED/VENDERS LEIN	HOLT JANET LOU & JIMMY EDWARD FAMILY TRUST	FLOBAK LTD			116669
7/29/2015	WD	WARRANTY DEED	HOLT JIMMY E & JANET L	HOLT JANET LOU & JIMMY EDWARD FAMILY TRUST	1862	160	46681
7/17/1990	OT	Other		HOLT JIMMY E & JANET L	753	381	

APPENDIX C
Historic Topographic Maps

TOPOGRAPHIC MAPS

Project Property:	Jalou Tract 1508 US Highway 181 N Floresville TX 78114
Project No:	12739-00
Requested By:	Pape-Dawson Engineers, Inc.
Order No:	22051600058
Date Completed:	May 17, 2022

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2019	7.5
2016	7.5
1973	7.5
1961	7.5
1936	15
1927	15

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

Page 223 of 1918 Topographic Instructions

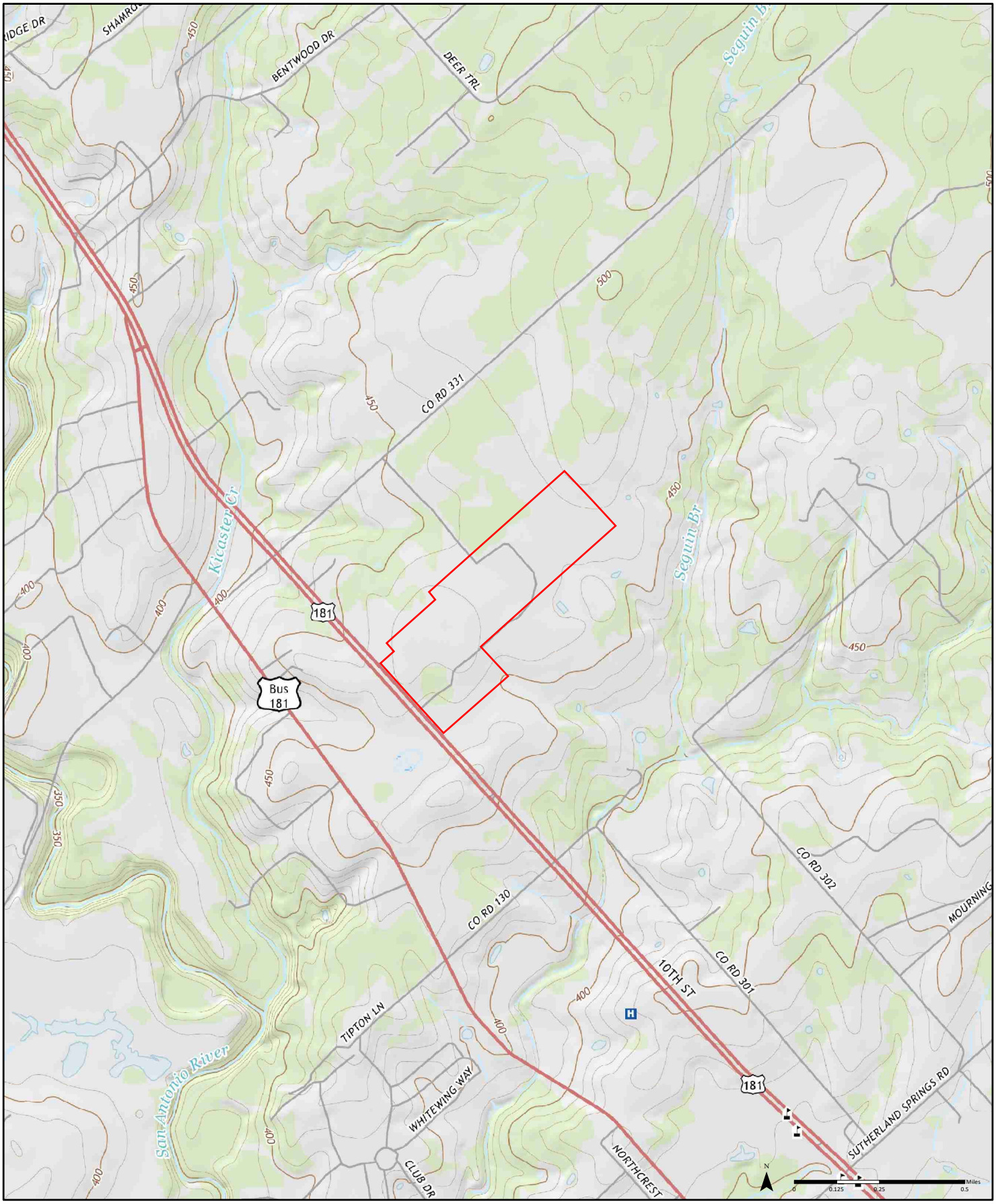
Page 130 of 1928 Topographic Instructions

1947-2009

Topographic Map Symbols

2009-present

US Topo Map Symbols

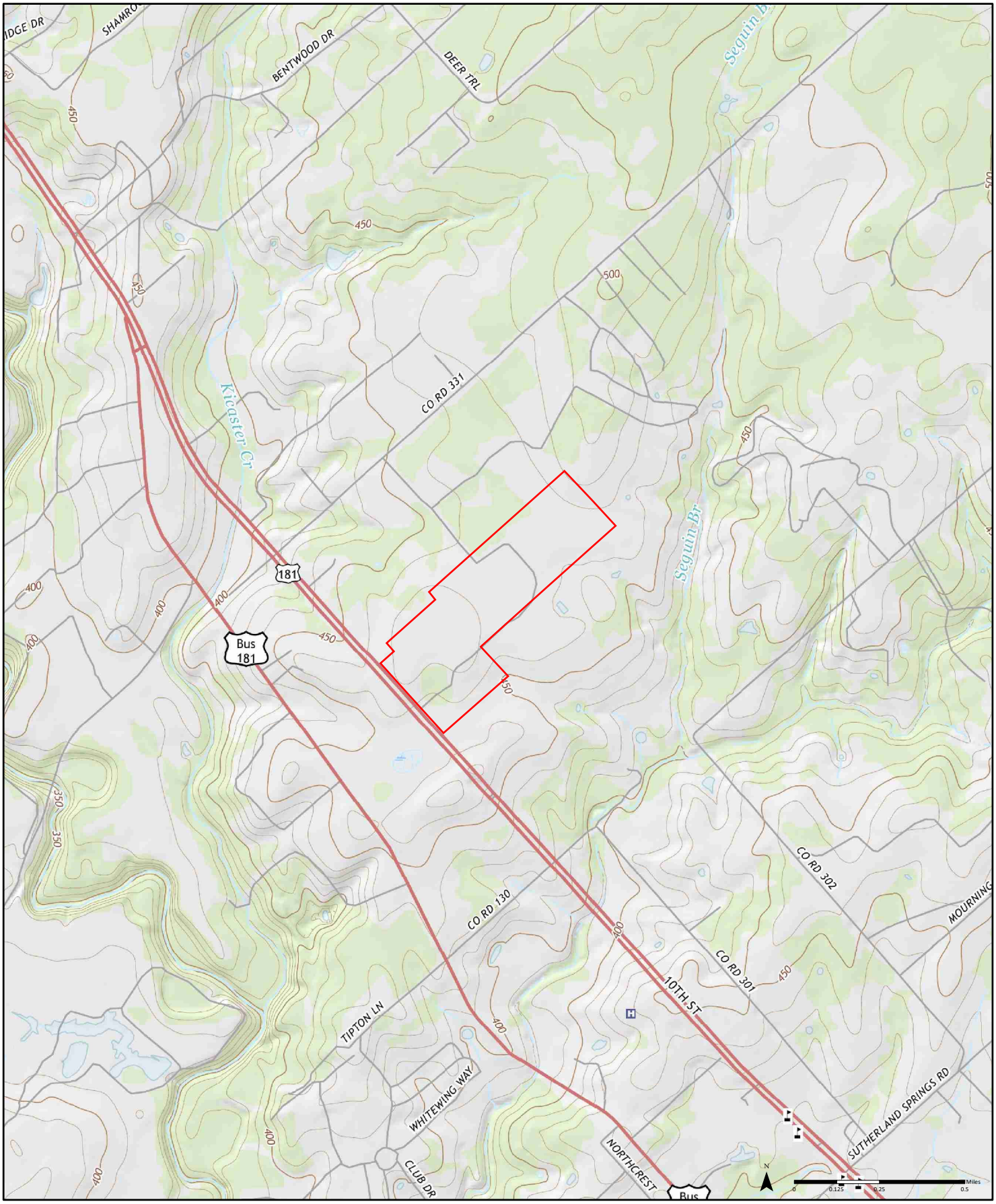


2019

Quadrangle(s): Floresville, TX

Order No. 22051600058

Source: USGS 7.5 Minute Topographic Map

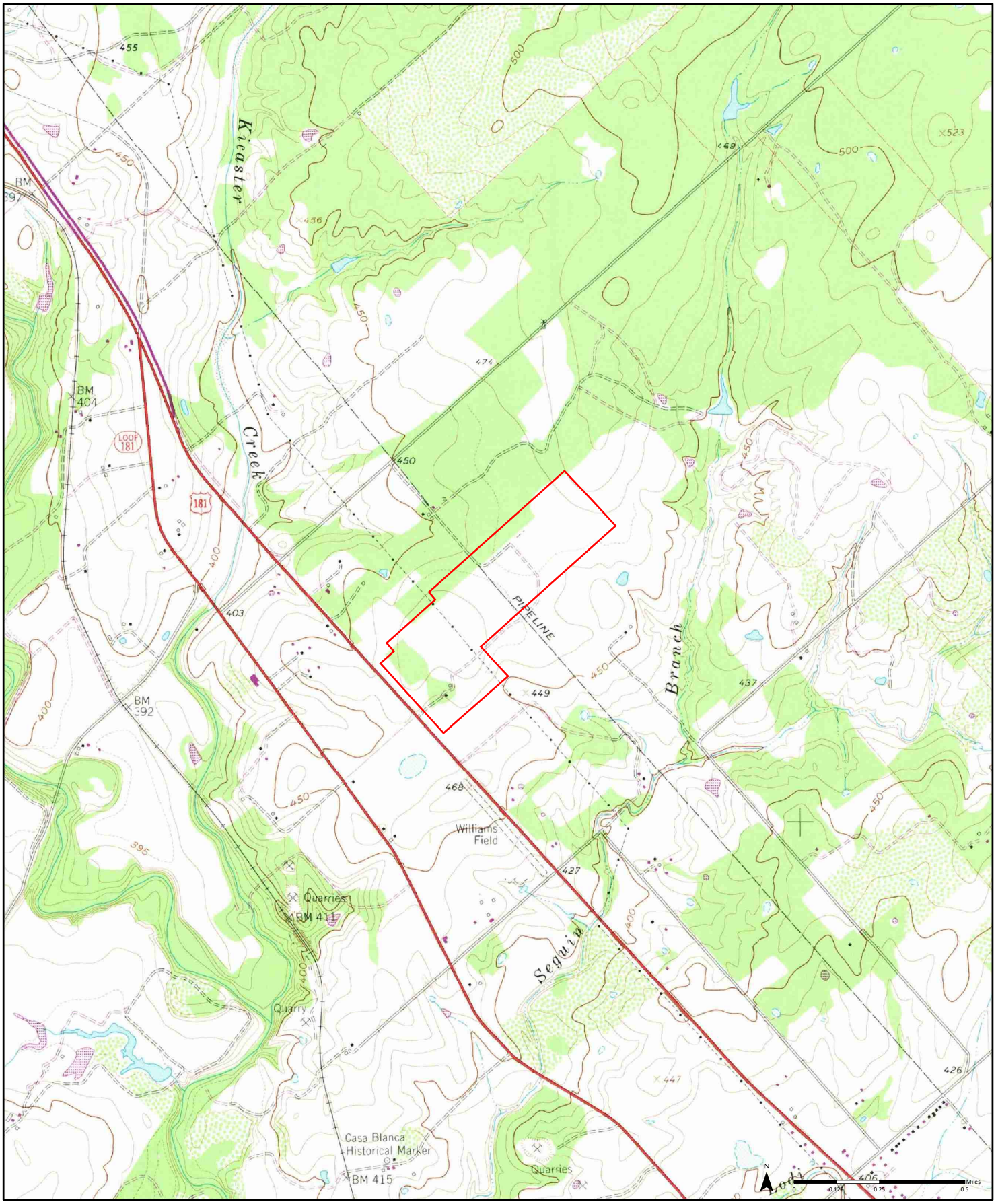


2016

Quadrangle(s): Floresville, TX

Order No. 22051600058

Source: USGS 7.5 Minute Topographic Map



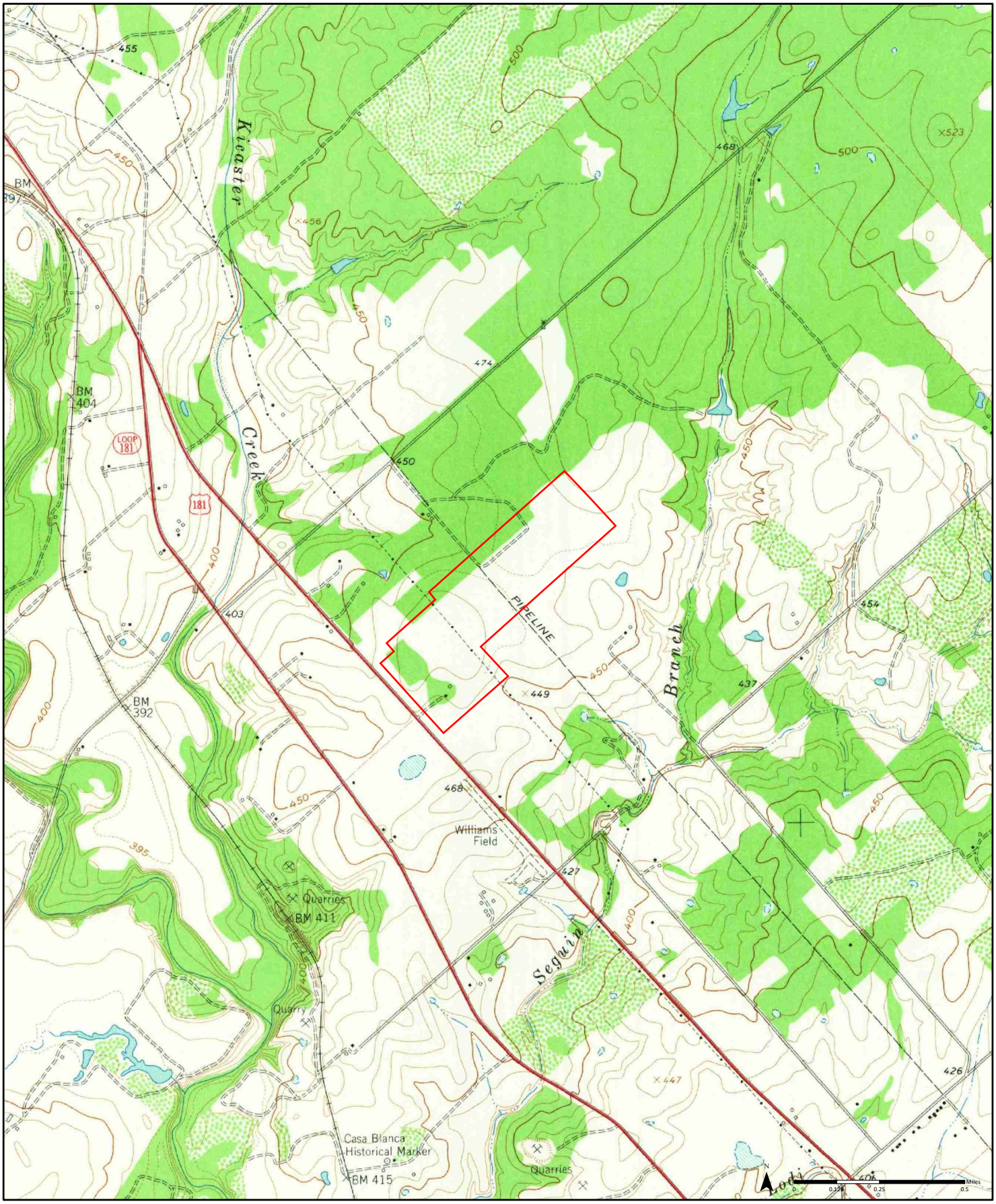
1973 (1)

Aerial Photo Year: 1973
Photo Revision Year: 1973

Quadrangle(s): Floresville, TX(1)

Order No. 22051600058

Source: USGS 7.5 Minute Topographic Map



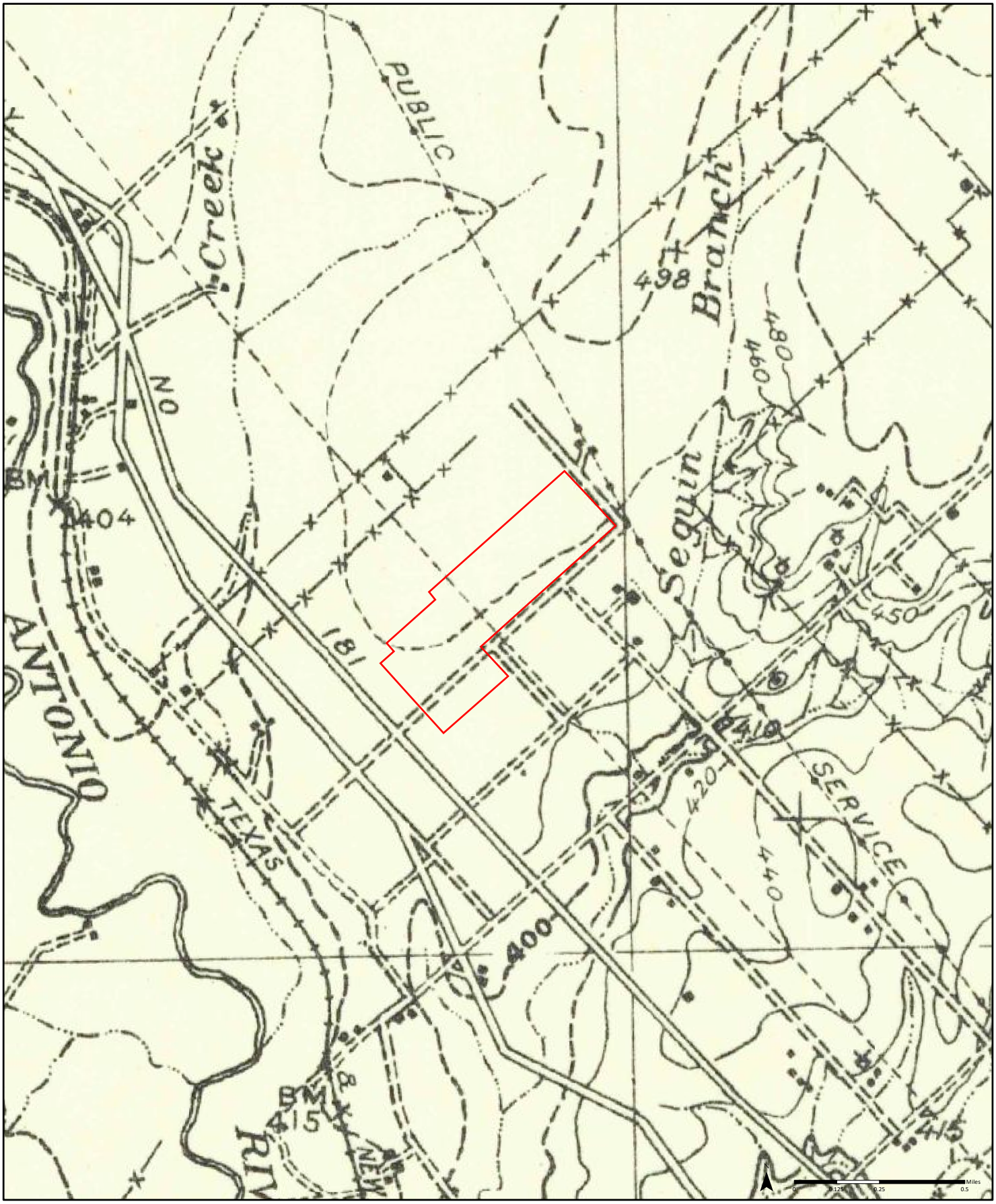
1961 [1] *Aerial Photo Year: 1959*

Quadrangle(s): Floresville, TX[1]

Order No. 22051600058

Source: USGS 7.5 Minute Topographic Map

ERIS

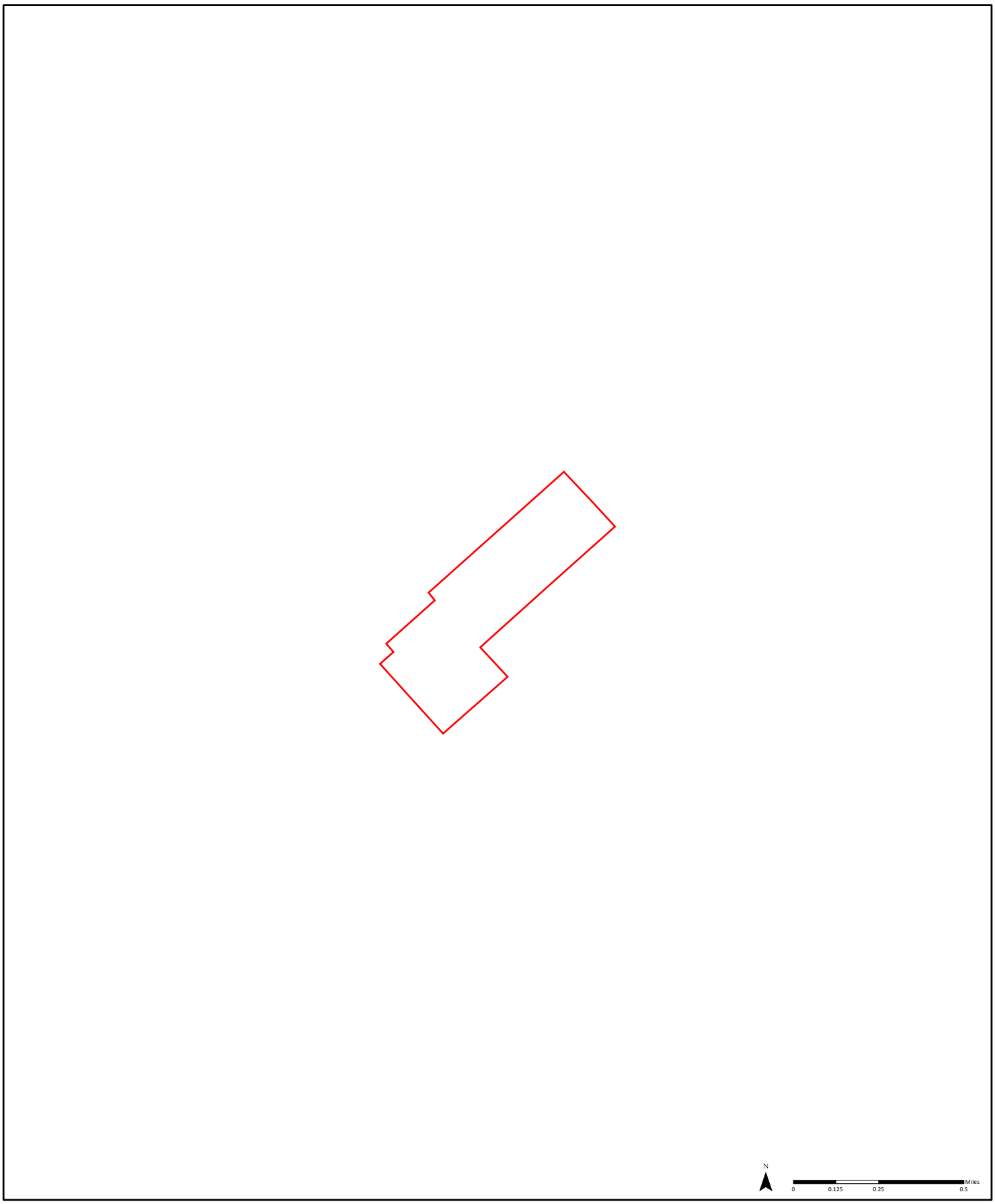


1936

Quadrangle(s): Floresville, TX

Order No. 22051600058

Source: USGS 15 Minute Topographic Map



1927

Quadrangle(s): Floresville, TX

Order No. 22051600058

Source: USGS 15 Minute Topographic Map

APPENDIX D
Aerial Photographs

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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SHEET	Appendix D

JALOU TRACT

1938 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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LEGEND

Project Boundary

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JALOU TRACT

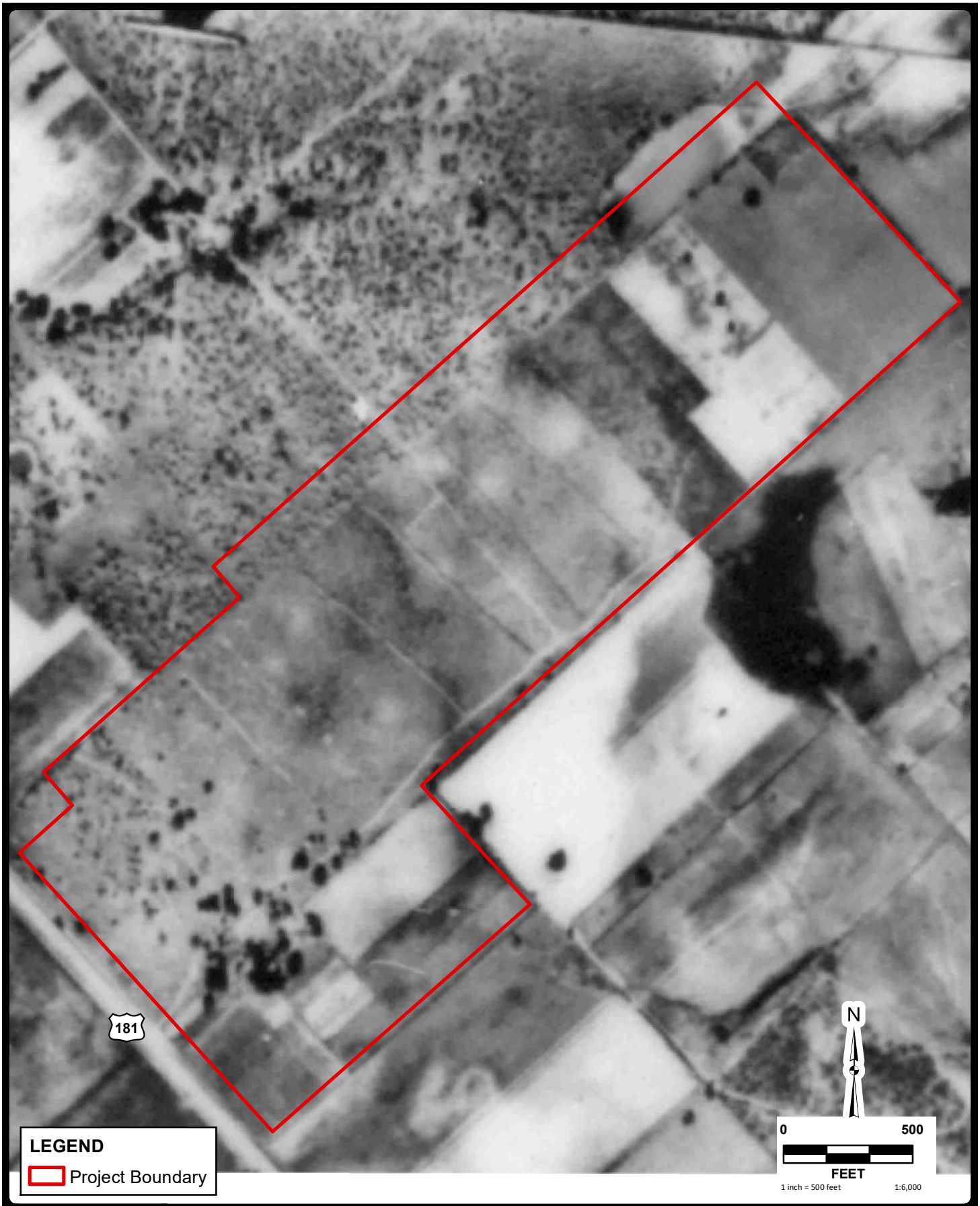
1953 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery



LEGEND

Project Boundary

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JALOU TRACT

1961 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

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Project Boundary

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JALOU TRACT

1973 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

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Source: ESRI World Imagery

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Project Boundary

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JALOU TRACT

1983 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

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Source: ESRI World Imagery

LEGEND

Project Boundary

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JALOU TRACT

1990 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

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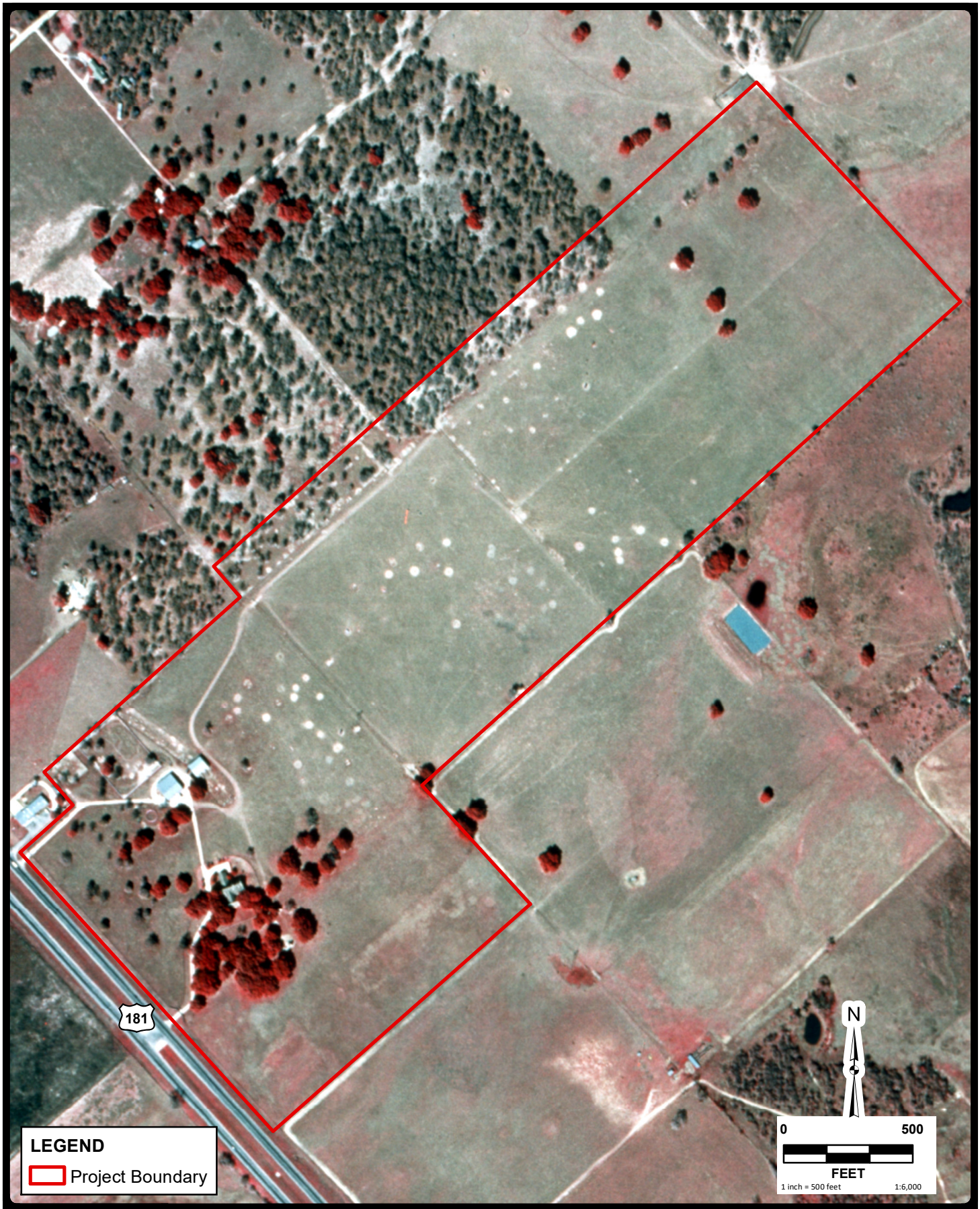

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JALOU TRACT

1995 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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SHEET	Appendix D

JALOU TRACT

2004 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
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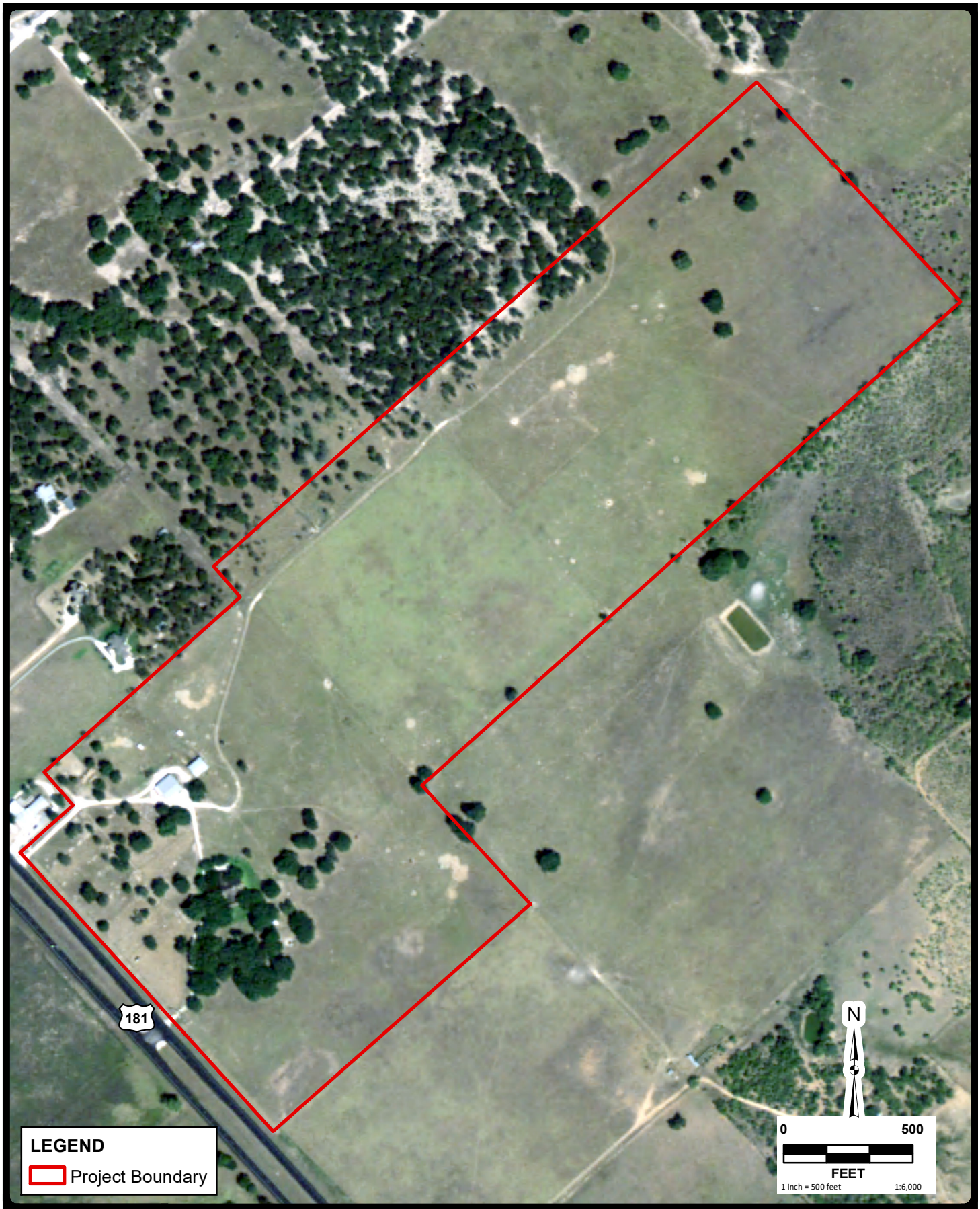

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JALOU TRACT

2005 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2008 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

AERIAL IMAGERY PROVIDED BY GOOGLE © UNLESS OTHERWISE NOTED. Imagery ©2023, CAPCOG,Digital Globe,Texas Orthoimagery Program, USDA Farm Service Agency.

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Date: Nov 06, 2023 9:57:27 AM User: Dmoser
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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2010 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2012 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2014 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
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JALOU TRACT

2015 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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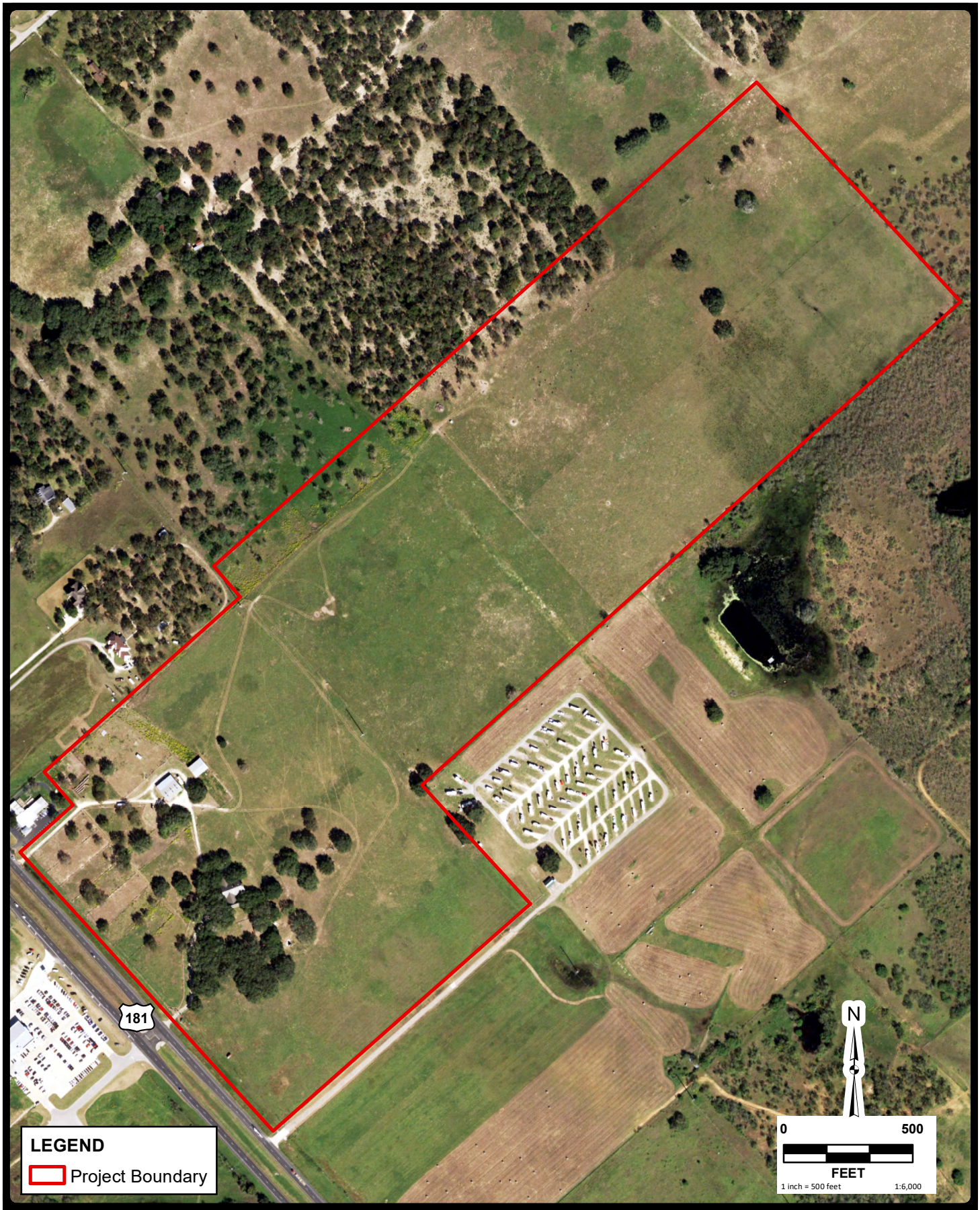
JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2016 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery



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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
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SHEET	Appendix D

JALOU TRACT

2018 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2020 AERIAL PHOTOGRAPH

WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Source: ESRI World Imagery

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet

Date: Nov 06, 2023 9:57:54 AM User: Dmoser
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JOB NO.	12739-03
DATE	Nov 2023
DRAWN	DJM
CHECKED	HDJ
SHEET	Appendix D

JALOU TRACT

2023 AERIAL PHOTOGRAPH
WILSON COUNTY, TEXAS

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

APPENDIX E
Regulatory Database Records and Public Documents Research

Sanborn Maps

FIRE INSURANCE MAPS

Project Property:	Jalou Tract 1508 US Highway 181 N Floresville TX 78114
Project No:	12739-00
Requested By:	Pape-Dawson Engineers, Inc.
Order No:	22051600058
Date Completed:	May 17, 2022

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

City Directories

CITY DIRECTORY

Project Property:	*Jalou Tract* *1508 US Highway 181 N* *Floresville,TX 78114*
Project No:	*12739-00*
Requested By:	*Pape-Dawson Engineers, Inc.*
Order No:	*22051600058*
Date Completed:	*May 20, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

May 20, 2022
RE: CITY DIRECTORY RESEARCH
1508 US Highway 181 N
Floresville,TX 78114

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
1-1350 of County Road 331
740-2565 of US Highway 181
Search Notes:

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000-2001	COLE	
1996-1997	COLE	
1992	COLE	

2020 COUNTY ROAD 331

SOURCE: DIGITAL BUSINESS DIRECTORY

45 **RODDY RODGERS**...*RESIDENTIAL*
49 **CYNTHIA CAREY**...*RESIDENTIAL*
395 **BILLY HOOD**...*RESIDENTIAL*
959 **BRIAN SILVA**...*RESIDENTIAL*
1015 **KIMBERLY SEKULA**...*RESIDENTIAL*
1296 **MARCELLA FLORES**...*RESIDENTIAL*

2020 US HIGHWAY 181

SOURCE: DIGITAL BUSINESS DIRECTORY

803 **BLIMPIE SUBS SALADS**...*RESTAURANTS*
803 **PRUSKI'S**...*SERVICE STATIONS-GASOLINE & OIL*
807 **PRUSKI'S TIRE SHOP**...*TIRE-DEALERS-RETAIL*
807 **PRUSKI'S TIRE SHOP LLC**...*TIRE-DEALERS-RETAIL*
1101 **KATHLEEN CELAYA**...*RESIDENTIAL*
1145 **DITTMAR LUMBER CORP**...*HYDRAULIC EQUIPMENTMANUFACTURERS*
1145 **DITTMAR LUMBER CORP**...*CONTRACTORS-EQUIP/SUPLS-DLRS/SVC (WHLS)*
1146 **FLORESVILLE ELECTRIC LIGHT**...*ELECTRIC CONTRACTORS*
1221 **JACK HENDERSON**...*RESIDENTIAL*
1508 **JIMMY HOLT**...*RESIDENTIAL*
1531 **RICHARDSON BROS**...*AUTOMOBILE DEALERS-USED CARS*
1531 **RICHARDSON BROTHERS**...*UNCLASSIFIED ESTABLISHMENTS*
1531 **RICHARDSON BROTHERS**...*AUTOMOBILE DEALERS-USED CARS*
1539 **RICHARDSON BROS CHEVROLET**...*TRUCK-DEALERS*
1541 **RICHARDSON BROS INC CHEV-PLRS**...*TRUCK CANOPIES, CAPS & SHELLS*
1541 **RICHARDSON BROS INC CHEV-PLRS**...*TRUCK-DEALERS*
1678 **OAK HILLS ANIMAL HOSPITAL**...*ANIMAL HOSPITALS*
1812 **COUNTRY DESIGNS**...*CARPET & RUG DEALERS-NEW*
1812 **LUMBER OUTLET**...*BUILDING MATERIALS*
1812 **LUMBER OUTLET**...*LUMBER-RETAIL*
1852 **KATHALEEN HAYSE**...*RESIDENTIAL*
1932 **BONNIE THORMAN**...*RESIDENTIAL*
1932 **JODI KOENIG**...*RESIDENTIAL*
1984 **VALENTINE ARRIAGA**...*RESIDENTIAL*
2358 **CHRISTIAN HILL**...*RESIDENTIAL*
2358 **GEORGE HILL**...*RESIDENTIAL*
2532 **AMERICAN CHINESE FIREWORKS**...*FIREWORKS (WHLS)*
2538 **BARNEY RING**...*RESIDENTIAL*
2548 **HARRY WALLS**...*RESIDENTIAL*
2564 **L F DISTRIBUTION**...*BEER & ALE-WHOLESALE*

2016 COUNTY ROAD 331

SOURCE: DIGITAL BUSINESS DIRECTORY

49 **CYNTHIA CAREY**...*RESIDENTIAL*
959 **BRIAN SILVA**...*RESIDENTIAL*
959 **OLGA SILVA**...*RESIDENTIAL*
959 **RAYMOND SILVA JR**...*RESIDENTIAL*
1169 **MICHELLE DRIFFILL**...*RESIDENTIAL*
1296 **MARCELLA FLORES**...*RESIDENTIAL*
1296 **MARVIN FLORES**...*RESIDENTIAL*

2016 US HIGHWAY 181

SOURCE: DIGITAL BUSINESS DIRECTORY

744 **CVS/PHARMACY**...*PHARMACIES*
1101 **KATHLEEN CELAYA**...*RESIDENTIAL*
1101 **U-HAUL NEIGHBORHOOD DEALER**...*TRUCK, UTILITY TRAILER & RV RENTAL & LEASING*
1145 **DITTMAR LUMBER CORP**...*CONTRACTORS-EQUIP/SUPLS-DLRS/SVC (WHLS)*
1146 **FLORESVILLE ELECTRIC LIGHT**...*ELECTRIC CONTRACTORS*
1221 **JACK HENDERSON**...*RESIDENTIAL*
1221 **MARY HENDERSON**...*RESIDENTIAL*
1531 **RICHARDSON BROTHERS**...*UNCLASSIFIED ESTABLISHMENTS*
1812 **COUNTRY DESIGNS**...*CARPET & RUG DEALERS-NEW*
1812 **LUMBER OUTLET**...*LUMBER-RETAIL*
1932 **BONNIE THORMAN**...*RESIDENTIAL*
2532 **AMERICAN CHINESE FIREWORKS**...*FIREWORKS (WHLS)*
2538 **BARNEY RING**...*RESIDENTIAL*
2538 **JANICE RING**...*RESIDENTIAL*
2544 **CONNIE RING**...*RESIDENTIAL*
2564 **L F DISTRIBUTION**...*BEER & ALE-WHOLESALE*

2012 COUNTY ROAD 331

SOURCE: DIGITAL BUSINESS DIRECTORY

45 **RODDY RODGERS**...*RESIDENTIAL*
45 **VICKIE RODGERS**...*RESIDENTIAL*
395 **BILLY HOOD**...*RESIDENTIAL*
395 **VERNA HOOD**...*RESIDENTIAL*
397 **ALICE NAVARRO**...*RESIDENTIAL*
397 **CARNES JR, THOMAS J**...*INVESTIGATORS*
397 **MICHAEL CARNES**...*RESIDENTIAL*
397 **NANCY CARNES**...*RESIDENTIAL*
511 **JAMES TWENTE**...*RESIDENTIAL*
897 **JEREMY COX**...*RESIDENTIAL*
897 **JOHN HOLLAND**...*RESIDENTIAL*
897 **MARIELA COX**...*RESIDENTIAL*
897 **MARIELA HOLLAND**...*RESIDENTIAL*
897 **MARIELA OJEDA**...*RESIDENTIAL*
897 **MIRTHA HOLLAND**...*RESIDENTIAL*
959 **BRIAN SILVA**...*RESIDENTIAL*
959 **RAYMON SILVA**...*RESIDENTIAL*
1015 **ELVAN SEKULA**...*RESIDENTIAL*
1015 **KIMBERLY SEKULA**...*RESIDENTIAL*
1169 **GWENDA DRIFFILL**...*RESIDENTIAL*
1191 **EDDIE ROSE**...*RESIDENTIAL*
1221 **ALICE ROSE**...*RESIDENTIAL*
1221 **EDDIE ROSE**...*RESIDENTIAL*

2012 US HIGHWAY 181

SOURCE: DIGITAL BUSINESS DIRECTORY

1061 **DARLA RICHTER**...*RESIDENTIAL*
1061 **STEPHEN RICHTER**...*RESIDENTIAL*
1145 **DITTMAR LUMBER CORP**...*CONTRACTORS-EQUIP/SUPLS-DLRS/SVC (WHLS)*
1146 **FLORESVILLE ELECTRIC LIGHT**...*ELECTRIC CONTRACTORS*
1161 **JIMMY BIELA**...*RESIDENTIAL*
1221 **JACK HENDERSON**...*RESIDENTIAL*
1221 **MARY HENDERSON**...*RESIDENTIAL*
1758 **BRIAN GUERRA**...*RESIDENTIAL*
1758 **ROBERT GUERRA**...*RESIDENTIAL*
1812 **COUNTRY DESIGNS**...*CARPET & RUG DEALERS-NEW*
1812 **LUMBER OUTLET**...*BUILDING MATERIALS*
1812 **NANETTE ULLMANN**...*RESIDENTIAL*
1812 **RICHARD ULLMANN**...*RESIDENTIAL*
1852 **HAYSE ROBERT**...*RESIDENTIAL*
1852 **ROBERT HAYSE**...*RESIDENTIAL*
1962 **GRACE ALTAMIRA**...*RESIDENTIAL*
1962 **NICHOLAS ALTAMIRA**...*RESIDENTIAL*
2358 **GEORGE HILL**...*RESIDENTIAL*
2358 **KIRK DOCKERY**...*RESIDENTIAL*
2358 **MICHELLE HILL**...*RESIDENTIAL*
2489 **ROBERT HEEP**...*RESIDENTIAL*
2532 **AMERICAN CHINESE FIREWORKS**...*FIREWORKS (WHLS)*
2538 **BARNEY RING**...*RESIDENTIAL*
2538 **CONNIE RING**...*RESIDENTIAL*
2538 **GCII RING**...*RESIDENTIAL*
2538 **JANICE RING**...*RESIDENTIAL*
2548 **HARRY WALLS**...*RESIDENTIAL*
2548 **IDA WALLS**...*RESIDENTIAL*

2008 COUNTY ROAD 331

SOURCE: DIGITAL BUSINESS DIRECTORY

11 **TWYLLA MITCHAM**...*RESIDENTIAL*
397 **ARLEEN MCBEE**...*RESIDENTIAL*
397 **THOMAS J CARNES**...*RESIDENTIAL*
397 **THOMAS J CARNES JR**...*INVESTIGATORS*
959 **OLGA SILVA**...*RESIDENTIAL*
1015 **KIMBERLY SEKULA**...*RESIDENTIAL*
1347 **SHARON COBURN**...*RESIDENTIAL*

2008 US HIGHWAY 181

SOURCE: DIGITAL BUSINESS DIRECTORY

1042 **SYLVIA BARRERA**...*RESIDENTIAL*
1111 **FOR THE LOVE OF DOGS**...*PET WASHING & GROOMING*
1145 **DIPTMAR LUMBER CORP**...*RET LUMBER/BUILDING MATERIALS*
1161 **JIMMY BIELA**...*RESIDENTIAL*
1495 **OLIVE ALGEA**...*RESIDENTIAL*
1678 **GEORGE B DVM HILL**...*RESIDENTIAL*
1758 **ROBERT GUERRA**...*RESIDENTIAL*
1812 **COUNTRY DESIGNS**...*CARPET & RUG DEALERS-NEW*
1812 **LUMBER OUTLET THE**...*CONTRACTOR/INTERIOR DESIGN/LUMBER RETAILER*
2533 **LAURA BIPPERT**...*RESIDENTIAL*

2003 COUNTY ROAD 331

SOURCE: DIGITAL BUSINESS DIRECTORY

397 **CARNES JR THOMAS J**...*GUARD SERVICES*

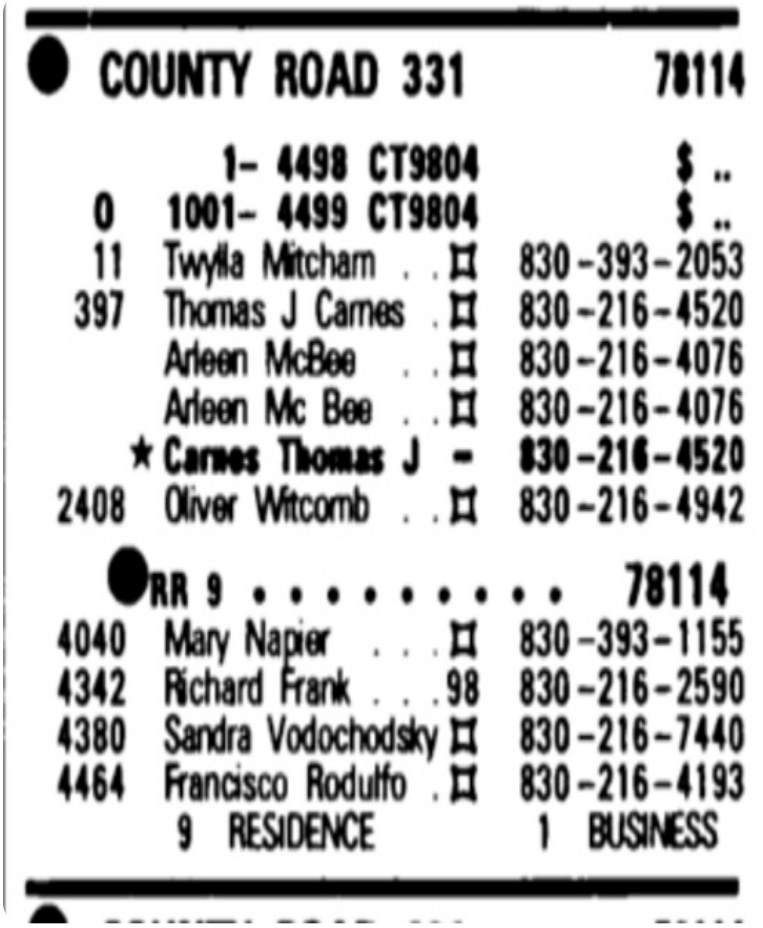
2003 US HIGHWAY 181

SOURCE: DIGITAL BUSINESS DIRECTORY

803 **BLIMPIE SUBS & SALADS**...*STEAK AND BARBECUE RESTAURANTS*
803 **PRUSKI'S DIAMON SHAMROCK**
803 **WELLS FARGO BANK TEXAS**
807 **PRUSKI'S SERVICE CTR**
1678 **OAK HILLS ANIMAL HOSPITAL**
1812 **COUNTRY DESIGNS**
1812 **FIRST CITY REALTORS**
1812 **LUMBER OUTLET**
1812 **RICHARD ULLMANN CUSTOM HOMES**

2000-2001 COUNTY ROAD 331

SOURCE: COLE



COUNTY ROAD 331 78114

1- 4498 CT9804 $ ..
0 1001- 4499 CT9804 $ ..
11 Twylla Mitcham . . ⌑ 830-393-2053
397 Thomas J Carnes . ⌑ 830-216-4520
Arleen McBee . . ⌑ 830-216-4076
Arleen Mc Bee . . ⌑ 830-216-4076
★ Carnes Thomas J - 830-216-4520
2408 Oliver Witcomb . . ⌑ 830-216-4942

RR 9 78114
4040 Mary Napier . . . ⌑ 830-393-1155
4342 Richard Frank . . . 98 830-216-2590
4380 Sandra Vodochodsky ⌑ 830-216-7440
4464 Francisco Rodulfo . ⌑ 830-216-4193
9 RESIDENCE 1 BUSINESS

2000-2001 US HIGHWAY 181

SOURCE: COLE

HIGHWAY 181 N 78114
Maria Bustos . . . 82 830-393-3058
Bethel M Greater . 97 830-393-2803
Curtis Holcombe . 91 830-393-7732
Jack Holcombe . . 85 830-393-4187
Harold L Ory . . . 95 830-216-4113
Richd E Ullmann Jr 95 830-393-7069
Benny Ximenez . . 81 830-393-6381
★ A-1 Concrt Prdcts ⌑ 830-216-7543
★ Ace Bail Bonds . ⌑ 830-216-[illegible]307
★ Amrcn Prcst Concrt 830-393-7731
★ Animal Hosp Hll . 830-393-4600
★ Bandys Ice House 96 830-393-6868
★ Bank of S Texas 96 830-393-3577
★ Boeing Agri Serv 830-393-4224
★ Bolf Sales&Svc . 830-393-4004
★ Churchs Frd Chick 95 830-216-7502
★ Cox Serv Sta . . 830-393-6443
★ Dockery K W Atty 98 830-393-2700
★ Dollar General . . 93 830-393-1113
★ Donaho&Dockery PC 98 ⊙ 830-393-2700
★ Donaho S R Atty ⊙ 830-393-2700
★ Dons Restaurant . 830-393-3424
★ Faifer & Company 95 830-216-4189
★ 5 L Feed Store . 830-393-4787
★ Ivans Glass Co . 830-393-6485
★ Kimble Chiroprctc 830-393-2522
★ Lyons Rpr&Muffler 830-393-2318
★ Midway Automotive 95 830-216-4767
★ Mike Lzn Frd Merc 97 830-216-4040
★ Pizza Inn 96 830-393-4411
★ The Rehab Center ⌑ 830-216-7426
★ Reynas Tacos . . 96 830-393-2386
★ Roadside Motel . 93 830-393-3244
★ Super S Foods . . 830-216-7167
★ The Rehab Center ⌑ 830-393-3831
★ Wal Mart Str Info 95 830-393-4417
★ Wal Mart Pharmacy 95 830-393-3119
★ Western Finance . 96 830-393-2210
★ Yoskos Welding . 830-393-3463
★ A 1 Concrt Prdcts - ⊙ 830-216-7543
★ Gorzell Parts Str 830-216-7279
★ Donaho&Dockery PC 98 830-216-2703
108 ★ Firsvll Esp Rnt . 96 830-393-0452
136 ★ Hmtlgy Onclgy S . - 830-393-3823
181 Richd E Ullmann Jr 97 830-216-2272
236 Pete Barrera . . . - 830-393-3578
803 Diamond S Pruskis ⌑ 830-393-6323
★ Blimpies Sbs&Sids 97 830-393-1951
807 ★ Pruskis Svc Ctr . 830-393-4046
1106 ★ B & B Computer 98 830-393-4051
1495 Olive Algea . . . 98 830-393-0494
2500 ★ Animal Hosp Mn Ofc ⌑ 830-393-4600
★ Hill George B DVM - ⊙ 830-393-4600
7028 ★ E-Z Stop . . . . ⌑ 830-216-2879
★ E Z Stop . . . . - ⊙ 830-216-2879
8508 Edwin Kiser . . . 97 830-216-4591
Edwin Kiser . . . 97 830-216-7760
13 RESIDENCE 44 BUSINESS

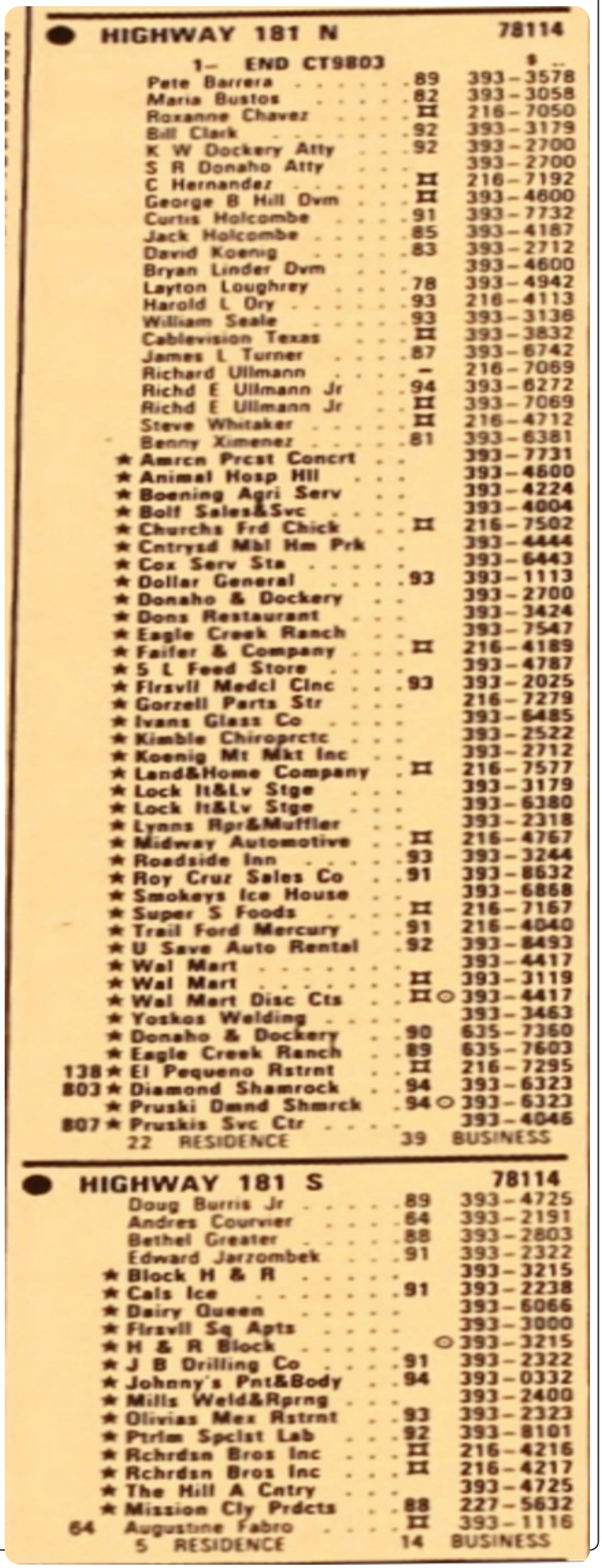
1996-1997 COUNTY ROAD 331

SOURCE: COLE

STREET NOT LISTED

1996-1997 US HIGHWAY 181

SOURCE: COLE



HIGHWAY 181 N — 78114

1– END CT9803

	Pete Barrera	89		393–3578
	Maria Bustos	82		393–3058
	Roxanne Chavez	¤		216–7050
	Bill Clark	92		393–3179
	K W Dockery Atty	92		393–2700
	S R Donaho Atty			393–2700
	C Hernandez	¤		216–7192
	George B Hill Dvm	¤		393–4600
	Curtis Holcombe	91		393–7732
	Jack Holcombe	85		393–4187
	David Koenig	83		393–2712
	Bryan Linder Dvm			393–4600
	Layton Loughrey	78		393–4942
	Harold L Ory	93		216–4113
	William Seale	93		393–3136
	Cablevision Texas	¤		393–3832
	James L Turner	87		393–6742
	Richard Ullmann	–		216–7069
	Richd E Ullmann Jr	94		393–6272
	Richd E Ullmann Jr	¤		393–7069
	Steve Whitaker	¤		216–4712
	Benny Ximenez	81		393–6381
★	Amrcn Prcst Concrt			393–7731
★	Animal Hosp Hll			393–4600
★	Boening Agri Serv			393–4224
★	Bolf Sales&Svc			393–4004
★	Churchs Frd Chick	¤		216–7502
★	Cntrysd Mbl Hm Prk			393–4444
★	Cox Serv Sta			393–6443
★	Dollar General	93		393–1113
★	Donaho & Dockery			393–2700
★	Dons Restaurant			393–3424
★	Eagle Creek Ranch			393–7547
★	Faifer & Company	¤		216–4189
★	S L Feed Store			393–4787
★	Flrsvll Medcl Clnc	93		393–2025
★	Gorzell Parts Str			216–7279
★	Ivans Glass Co			393–6485
★	Kimble Chiroprctc			393–2522
★	Koenig Mt Mkt Inc			393–2712
★	Land&Home Company	¤		216–7577
★	Lock It&Lv Stge			393–3179
★	Lock It&Lv Stge			393–6380
★	Lynns Rpr&Muffler			393–2318
★	Midway Automotive	¤		216–4767
★	Roadside Inn	93		393–3244
★	Roy Cruz Sales Co	91		393–8632
★	Smokeys Ice House			393–6868
★	Super S Foods	¤		216–7167
★	Trail Ford Mercury	91		216–4040
★	U Save Auto Rental	92		393–8493
★	Wal Mart			393–4417
★	Wal Mart	¤		393–3119
★	Wal Mart Disc Cts	¤	○	393–4417
★	Yoskos Welding			393–3463
★	Donaho & Dockery	90		635–7360
★	Eagle Creek Ranch	89		635–7603
138 ★	El Pequeno Rstrnt	¤		216–7295
803 ★	Diamond Shamrock	94		393–6323
★	Pruski Dmnd Shmrck	94	○	393–6323
807 ★	Pruskis Svc Ctr			393–4046

22 RESIDENCE 39 BUSINESS

HIGHWAY 181 S — 78114

	Doug Burris Jr	89		393–4725
	Andres Courvier	64		393–2191
	Bethel Greater	88		393–2803
	Edward Jarrombek	91		393–2322
★	Block H & R			393–3215
★	Cals Ice	91		393–2238
★	Dairy Queen			393–6066
★	Flrsvll Sq Apts			393–3000
★	H & R Block		○	393–3215
★	J B Drilling Co	91		393–2322
★	Johnny's Pnt&Body	94		393–0332
★	Mills Weld&Rprng			393–2400
★	Olivias Mex Rstrnt	93		393–2323
★	Ptrlm Spclst Lab	92		393–8101
★	Rchrdsn Bros Inc	¤		216–4216
★	Rchrdsn Bros Inc	¤		216–4217
★	The Hill A Cntry			393–4725
★	Mission Cty Prdcts	88		227–5632
64	Augustine Fabro	¤		393–1116

5 RESIDENCE 14 BUSINESS

1992 COUNTY ROAD 331

SOURCE: COLE

STREET NOT LISTED

1992 US HIGHWAY 181

SOURCE: COLE

HIGHWAY 181 N

78114

815	★	Pruskis Sv Cntr			393-4844
NO	#	Pete Barrera		89	393-3578
NO	#	Larry Boening		81	393-3868
NO	#	M I Clark		89	393-3179
NO	#	Paul Geasland		79	393-3316
NO	#	Jack Holcombe		85	393-4187
NO	#	Kenneth Johnson		H	393-8862
NO	#	David Koenig		83	393-2712
NO	#	Layton Loughrey		78	393-6243
NO	#	Willard K Meadows		84	393-2353
NO	#	A Quintanilla Jr		84	393-4968
NO	#	John Quintanilla		83	393-8810
NO	#	Scott Semlinger		H	635-8800
NO	#	James L Turner		87	393-8742
NO	#	Richard Ullmann		88	393-6350
NO	#	Gerry Wiggins		88	393-3342
NO	#	Benny Ximenez		81	393-6381
NO	#	Joe Zuniga Jr		64	393-2489
NO	#★	Donaho&Dockery PC		90	635-7344
NO	#★	Eagle Crk Ranch		89	635-7840
NO	#★	Eschenburg Implmnt		82	635-7221
NO	#★	Precisn Auto Spply		90	635-8896
NO	#★	Scott Semlinger		H	⊙ 635-8896
NO	#★	Trail Ford Mercury		H	635-7738
NO	#★	Trail Ford Mercury		H	635-7738
NO	#★	American Log Homes			393-3316
NO	#★	Amercn Prcst Conct			393-7726
NO	#★	Animal Hospital			393-4696
NO	#★	Boening Agri Svc			393-4226
NO	#★	Bolf Sales&Service			393-4096
NO	#★	Churchs Fried Chkn			393-6436
NO	#★	Cntrysd Mbl Hme Pk			393-4446
NO	#★	Cox Serv Sta			393-9443
NO	#★	Donaho&Dockery PC			393-2738
NO	#★	Scott R Donaho Aty			⊙ 393-2738
NO	#★	Dons Restaurant			393-3426
NO	#★	Eagle Creek Ranch			393-7543
NO	#★	Eschenburg Equipmt			393-3436
NO	#★	Fibrcon Inc		H	393-7148
NO	#★	5 L Feed Store			393-4787
NO	#★	Gorzell Parts Str			393-4376
NO	#★	Dr George B Hill			⊙ 393-4696
NO	#★	Ivans Glass Co			393-6485
NO	#★	J Deere Eschenburg			⊙ 393-3436
NO	#★	Kimble Chrp Cln #2			393-2522
NO	#★	Janis C Kimble DC			⊙ 393-2522
NO	#★	Koenig Meat Mkt			393-2712
NO	#★	L&M Ceramic Shop			393-6348
NO	#★	Lock It&Lv It Stg			393-3179
NO	#★	Lock It&Lv It Stg			393-6388
NO	#★	Lynns Au Rp&Mf Shp			393-2311
NO	#★	Midway Auto&Weldng			393-4346
NO	#★	New Mrkt Attc Pntr		H	393-3856
NO	#★	Precision Auto Sup			393-4681
NO	#★	Roy Cruz Sales Co		H	393-8622
NO	#★	Smokeys Ice House			393-6862
NO	#★	Super S Foods			393-2521
NO	#★	Richard Ullman Jr		H	393-6272
NO	#★	Wal-Mart DC Cities			393-4417
NO	#★	Wilson Co Supply			393-6256
NO	#★	Yoskos Welding			393-3463
		17 RESIDENCE		44	BUSINESS

HIGHWAY 181 S

78114

NO	#	Doug Burris Jr		89	393-4725
NO	#	Andres Courvier		64	393-2191
NO	#	Edward Jarzombek		–	393-2323
NO	#★	Mission Clay Prdct		88	227-1814
NO	#★	H&R Block			393-3215
NO	#★	Cals Ice		H	393-2228
NO	#★	Dairy Queen			393-6866
NO	#★	Flrsvl Square Apts			393-3888
NO	#★	Franciscos Mexcn R		H	393-7828
NO	#★	Fuller Fertilizer			393-2611
NO	#★	Fuller Real Estate			⊙ 393-2611
NO	#★	Greater Bethel Mbc		88	393-2883
NO	#★	J-B Drilling Co		–	393-2322
NO	#★	Mills Weldng&Reprg			393-2488
NO	#★	Richardson Bros Ch			393-2547
NO	#★	Richardson Bros Pt			393-2582
NO	#★	Texas Boots			393-4747
NO	#★	The Hll-A Cntry Mk			393-4725
NO	#★	Winns St No 146			393-3413
		3 RESIDENCE		16	BUSINESS

ERIS Radius Map Report

DATABASE REPORT

Project Property:	*Jalou Tract* *1508 US Highway 181 N* *Texas 78114 TX 78114*
Project No:	*12739-03*
Report Type:	*Database Report*
Order No:	*23101200729*
Requested by:	*Pape-Dawson Engineers, Inc.*
Date Completed:	*October 13, 2023*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:		*Jalou Tract* *1508 US Highway 181 N Texas 78114 TX 78114*
Project No:		*12739-03*
Coordinates:		
	Latitude:	*29.20385462*
	Longitude:	*-98.21548328*
	UTM Northing:	*3,227,782.55*
	UTM Easting:	*579,578.27*
	UTM Zone:	*UTM Zone 14R*
Elevation:		*467 FT*

Order Information:

Order No:	*23101200729*
Date Requested:	*October 12, 2023*
Requested by:	*Pape-Dawson Engineers, Inc.*
Report Type:	*Database Report*

Historicals/Products:

ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Y	1	0	0	0	0	0	0
State								
SUPERFUND	Y	1	0	0	0	0	0	0
SHWS	Y	1	0	0	0	0	0	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
CLI	Y	0.5	0	0	0	0	-	0
HGAC CLI	Y	0.5	0	0	0	0	-	0
AACOG CLI	Y	0.5	0	0	0	0	-	0
IHW	Y	0.25	0	0	0	-	-	0
IHW RECEIVER	Y	0.5	0	0	0	0	-	0
RWS	Y	0.5	0	0	0	0	-	0
LPST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
PST	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	0	0	-	-	0
UST AUSTIN	Y	0.25	0	0	0	-	-	0
PETROL CAVERN	Y	0.25	0	0	0	-	-	0
DTNK	Y	0.25	0	0	0	-	-	0
AUL	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
VCP RRC	Y	0.5	0	0	0	0	-	0
OP CLEANUP	Y	0.5	0	0	0	0	-	0
IOP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
BROWN RRC	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MSD	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0
County	***No County standard environmental record sources available for this State.***							
Additional Environmental Records								
Federal								
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
PRIORITY CLEAN	Y	0.5	0	0	0	0	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
GWCC	Y	0.125	0	0	-	-	-	0
GWCC HIST	Y	0.125	0	0	-	-	-	0
APAR	Y	0.5	0	0	0	0	-	0
SPILLS	Y	0.125	0	0	-	-	-	0
IHW CORR ACTION	Y	1	0	0	0	0	0	0
PFAS	Y	0.5	0	0	0	0	-	0
LAND APPL	Y	0.25	0	0	0	-	-	0
NOV	Y	0.25	0	0	0	-	-	0
NOE	Y	0.25	0	0	0	-	-	0
LIENS	Y	PO	0	-	-	-	-	0
ORD	Y	0.25	0	0	0	-	-	0
HIST RCRA NONRCRA	Y	0.5	0	0	0	0	-	0
RTOL	Y	0.25	0	0	0	-	-	0
UIC	Y	0.25	0	0	0	-	-	0
IHW GENERATOR	Y	0.125	0	0	-	-	-	0
IHW TRANSPORT	Y	0.125	0	0	-	-	-	0
AIR PERMITS	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
EMISSIONS	Y	0.25	0	0	0	-	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
EDWARDS AQUIFER	Y	PO	0	-	-	-	-	0

Tribal ***No Tribal additional environmental record sources available for this State.***

County ***No County additional environmental record sources available for this State.***

Total:	*0*	*0*	*0*	*0*	*0*	*0*

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

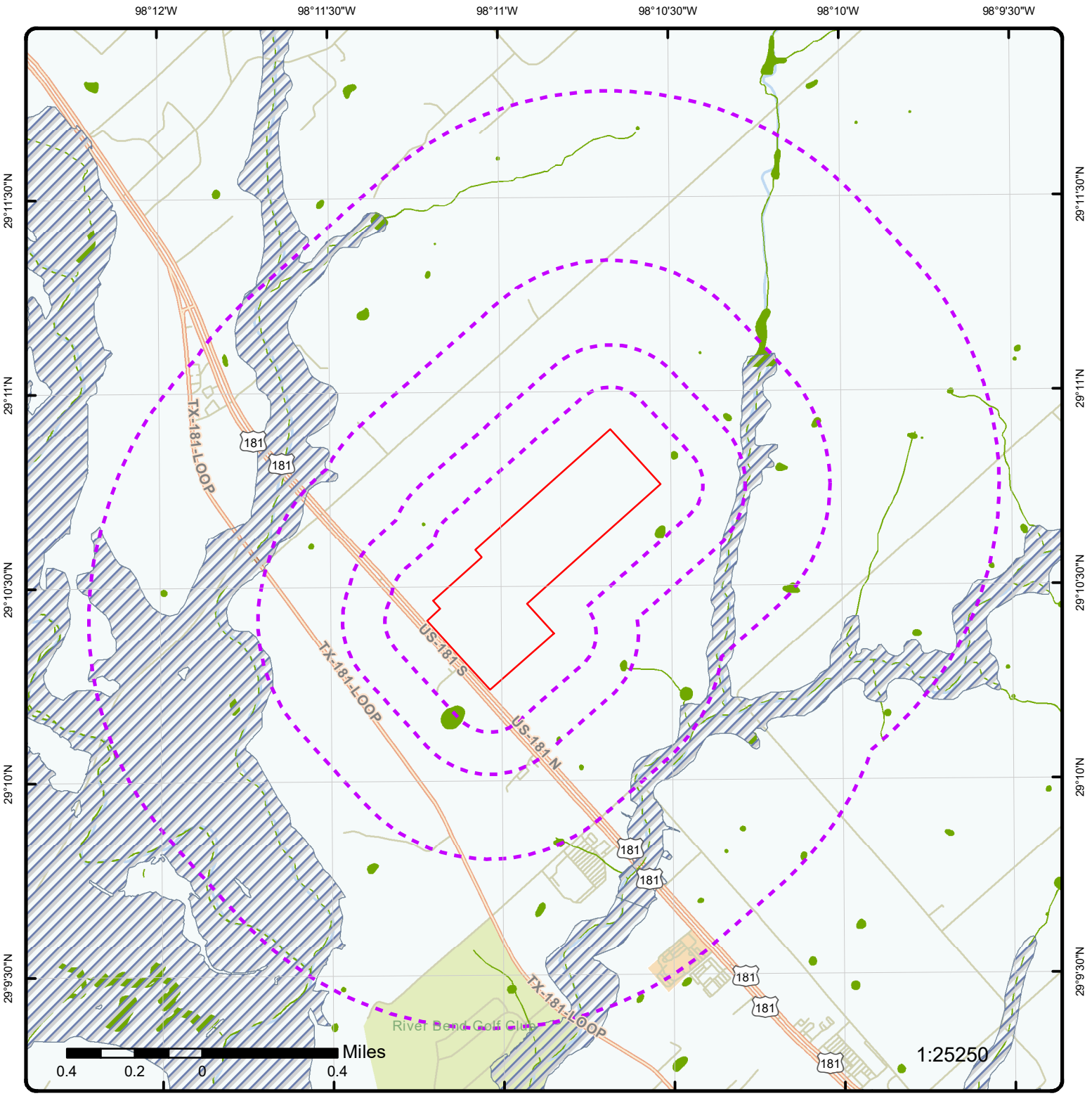
Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the surrounding properties.

Executive Summary: Summary by Data Source

No records found in the selected databases for the project property or surrounding properties.



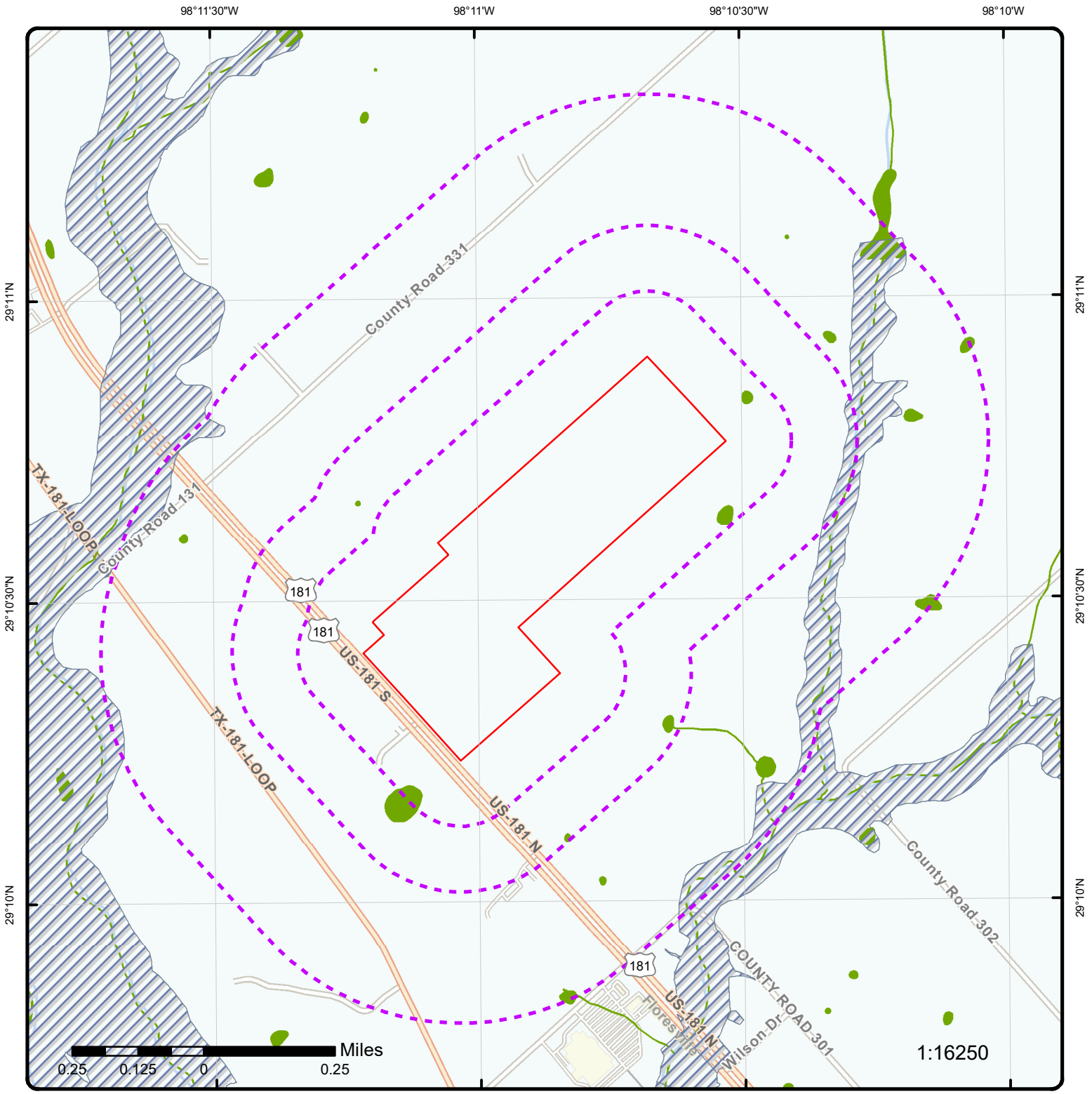
Map: 1.0 Mile Radius

Order Number: 23101200729

Address: 1508 US Highway 181 N, Texas 78114, TX

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium



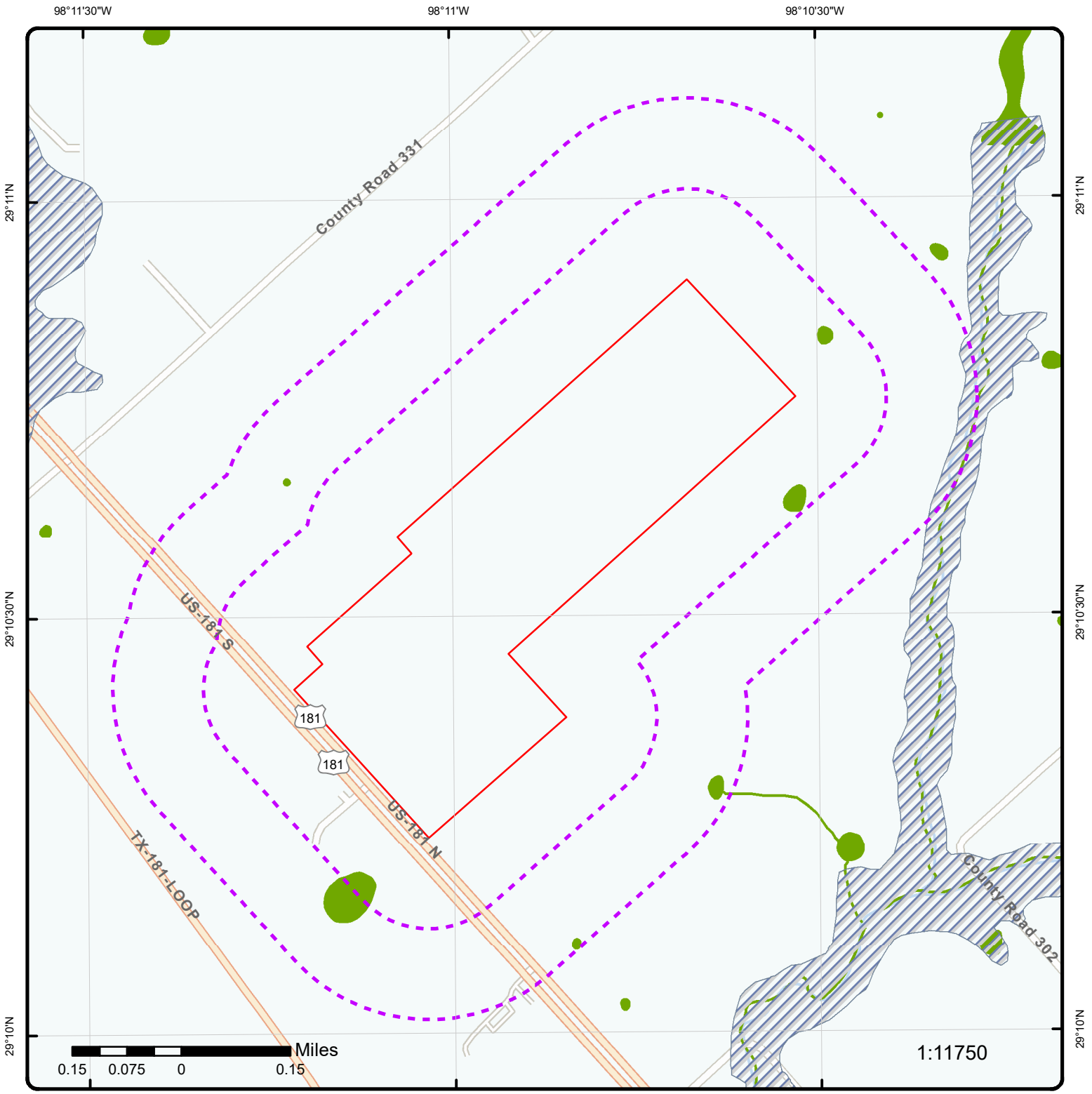
Map: 0.5 Mile Radius

Order Number: 23101200729

Address: 1508 US Highway 181 N, Texas 78114, TX

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium



Map: 0.25 Mile Radius

Order Number: 23101200729

Address: 1508 US Highway 181 N, Texas 78114, TX

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Plume
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

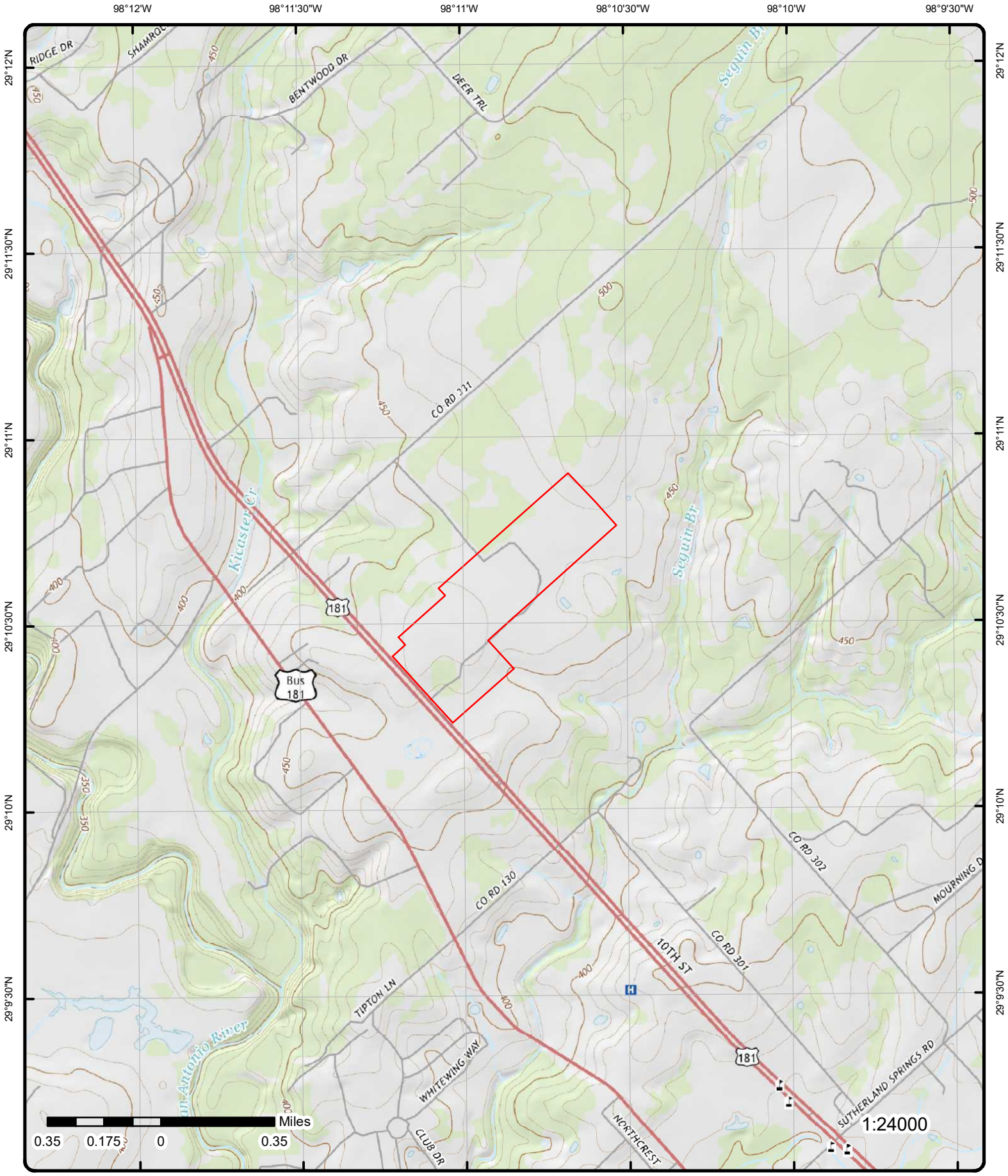
Source: © 2021 ESRI StreetMap Premium

Aerial **Year: 2019**

Order Number: 23101200729

Address: 1508 US Highway 181 N, Texas 78114, TX

Source: ESRI World Imagery



Topographic Map

Year: 2019

Order Number: 23101200729

Address: 1508 US Highway 181 N, TX

Quadrangle(s): Floresville TX

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

No records found in the selected databases for the project property or surrounding properties.

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List: NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

National Priority List - Proposed: PROPOSED NPL

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

Deleted NPL: DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

SEMS List 8R Active Site Inventory: SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

Government Publication Date: Jul 26, 2023

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Jul 26, 2023

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jul 10, 2023

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

Government Publication Date: Jul 10, 2023

RCRA Generator List: RCRA LQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jul 10, 2023

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jul 10, 2023

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jul 10, 2023

RCRA Non-Generators: RCRA NON GEN

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jul 10, 2023

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jul 10, 2023

Federal Engineering Controls-ECs: FED ENG

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Aug 23, 2023

Federal Institutional Controls- ICs: FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Aug 23, 2023

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites: NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: May 25, 2023

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Apr 3, 2023

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: May 2, 2023

Delisted Facility Response Plans: DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: May 2, 2023

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Sep 20, 2023

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jun 29, 2022

LIEN on Property: SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jul 26, 2023

Superfund Decision Documents: SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: May 25, 2023

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

Superfund Sites Boundaries: SUPERFUND

List of sites that may constitute an imminent and substantial endangerment to public health and safety or the environment due to a release or threatened release of hazardous substances into the environment provided by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Aug 10, 2021

State Superfund Registry: SHWS

List of sites identified or evaluated by the Texas Commission on Environmental Quality (TCEQ) which may constitute an imminent and substantial endangerment to public health and safety or to the environment due to a release or threatened release of hazardous substances into the environment. The TCEQ updates the state Superfund sites list in accordance with the Texas Health and Safety Code (THSC). This database is state equivalent NPL.

Government Publication Date: Aug 30, 2023

Delisted State Superfund Registry List: DELISTED SHWS

List of sites that once appeared on - and have since been removed from - the State Superfund Registry made available by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Sep 5, 2023

Permitted Solid Waste Facilities: SWF/LF

List of active, inactive, and post-closure Municipal Solid Waste landfills and processing facilities with issued permits and authorizations, as well as pending, withdrawn, or denied applications registered with the Texas Commission on Environmental Quality (TCEQ) under the Texas Administrative Code (TAC) Title 30 Chapter 330.

Government Publication Date: Apr 28, 2023

Closed Landfill Inventory: CLI

Inventory of permitted and unauthorized closed or abandoned municipal solid waste landfills throughout Texas compiled by the Texas Commission on Environmental Quality (TCEQ), in collaboration with regional Councils of Government (COG).

Government Publication Date: Late 1990's

Houston-Galveston Closed Landfill Inventory: HGAC CLI

List of closed and abandoned landfill sites which fall under the Houston Galveston Area Council of Government. Texas Councils of Governments (COGs) are required to maintain an inventory of closed municipal solid waste landfills for their regional solid waste management plans.

Government Publication Date: Oct 19, 2022

AACOG Closed Landfill Inventory: AACOG CLI

A list of permitted and unpermitted closed landfill sites made available by the Alamo Area Council of Governments (AACOG). Alamo Area Council of Governments (AACOG) is requested to maintain an inventory of closed municipal solid waste landfills for their regional solid waste management plans.

Government Publication Date: Feb 6, 2020

Commercial Management Facilities for Hazardous Waste and Industrial Solid Wastes: IHW

This publication lists facilities that have permits or authorizations from the Texas Commission on Environmental Quality (TCEQ) to receive, on a commercial basis, and manage hazardous waste, industrial nonhazardous waste, or both.

Government Publication Date: Dec 1, 2020

Industrial and Hazardous Waste - Receivers: IHW RECEIVER

List of active, inactive, and post-closure Industrial and Hazardous Waste Receiver Facilities permitted by or registered with the Texas Commission on Environmental Quality (TCEQ) under the Texas Administrative Code (TAC) Title 30 Chapter 335.

Government Publication Date: Jun 22, 2023

Radioactive Waste Sites: RWS

This Texas Commission on Environmental Quality (TCEQ) database contains all sites in the State of Texas designated as Radioactive Waste sites as of 2006. The TCEQ no longer maintains this site listing.

Government Publication Date: Jul 11, 2006

Leaking Petroleum Storage Tank Database: LPST

List of cleanup sites where contamination was caused by spills, leaks, or other releases of petroleum or hazardous substances from underground and/or aboveground storage tanks regulated by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Aug 28, 2023

Delisted Leaking Storage Tanks: DELISTED LST

List of cleanup sites that once appeared on - and have since been removed from - the list of Leaking Petroleum Storage Tank Cleanups made available by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Aug 28, 2023

Underground Petroleum Storage Tanks: UST

List of facilities that have one or more Underground Storage Tank (UST)s registered and regulated by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Sep 8, 2023

Aboveground Storage Tanks: AST

List of facilities that have one or more Aboveground Storage Tank (AST)s registered and regulated by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Sep 8, 2023

Petroleum Storage Tanks Database: PST

List of facilities included on the list of tank facilities made available by the Texas Commission on Environmental Quality (TCEQ) that have no association as either underground or aboveground tanks.

Government Publication Date: Sep 8, 2023

Historical Tank Construction Notification: HIST TANK

A list of facilities with historic petroleum storage tank construction notification activity made available by the Texas Commission on Environmental Quality (TCEQ). Any person who intends either to install a new or replacement undergound storage tank (UST), to remove a UST from the ground, to conduct a permanent abandonment in-place of a UST, or make any repairs or improvements of a UST must submit a Construction Notification Form.

Government Publication Date: Sep 8, 2023

Austin Underground Storage Tanks: UST AUSTIN

A list of underground gas storage tanks both current and historical from the City of Austin Open Data Portal. Data provided by Planning and Zoning, City of Austin.

Government Publication Date: Sep 27, 2023

Salt Caverns for Petroleum Storage: PETROL CAVERN

Listing of salt caverns for petroleum storage, made available by the Railroad Commission of Texas. Salt caverns, constructed in naturally occurring salt domes or salt beds, are used as storage for hydrocarbons including crude oil and natural gases.

Government Publication Date: Sep 1, 2006

Delisted Storage Tanks: DTNK

List of tank facilities that once appeared on - and have since been removed from - the Petroleum Storage Tanks Database made available by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Sep 27, 2023

Sites with Controls: AUL

Sites under several Texas Commission on Environmental Quality (TCEQ) remediation programs which have institutional or engineering controls.

Government Publication Date: Jul 24, 2023

Voluntary Cleanup Program: VCP

List of sites which have participated or are currently participating in the Voluntary Cleanup Program (VCP) administered by the Texas Commission on Environmental Quality (TCEQ). The VCP provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas.

Government Publication Date: May 22, 2023

Texas Railroad Commission Voluntary Cleanup Program: VCP RRC

List of facilities which have participated in or are currently participating in the Voluntary Cleanup Program (VCP) operated by the Railroad Commission of Texas (RRC). The RRC VCP provides an incentive to remediate Oil & Gas related pollution.

Government Publication Date: Aug 15, 2023

Operator Cleanup Program: OP CLEANUP

A list of sites in the Texas Railroad Commission (RRC)'s Operator Cleanup Program (OCP). The OCP, under the Site Remediation Section, is tasked with oversight of complex pollution cleanups performed by the oil and gas industry. Complex sites include those that occur in sensitive environmental areas as defined by 16 TAC3.91 (SWR 91) and may require site specific cleanup levels based on risk. When cleanup activities are successfully completed by the operator, Commission staff may issue a "No Further Action" letter acknowledging completion.

Government Publication Date: Sep 5, 2023

Innocent Owner/Operator Program: IOP

A list of sites in the Innocent Owner/Operator Program (IOP) made available by Texas Commission of Environmental Quality (TCEQ) . IOP provides certificates to innocent owners or operators whom their properties are contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination.

Government Publication Date: May 29, 2023

Brownfields Site Assessments Database: BROWNFIELDS

The Texas Commission on Environmental Quality (TCEQ) Brownfields Site Assessment Program (BSA) layer is used to identify the geographic location of all "Active and Inactive BSA" sites within the State of Texas.

Government Publication Date: Sep 25, 2023

Texas Railroad Commission Brownfields: BROWN RRC

List of sites which have participated or are currently participating in the Railroad Commission of Texas (RRC) Brownfields Response Program (BRP). The RRC BRP provides technical and financial support for redevelopment of abandoned oil and gas sites.

Government Publication Date: Aug 15, 2023

Municipal Setting Designation: MSD

Municipal Setting Designations (MSD) list is maintained by Texas Commission on Environmental Quality (TCEQ). An MSD is an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level.

Government Publication Date: Sep 4, 2023

Tribal

Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands: INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 6, which includes Texas, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 6, 2017

Underground Storage Tanks on Tribal/Indian Lands: INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 6, which includes Texas, is provided by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

Delisted Tribal Leaking Storage Tanks: DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

Delisted Tribal Underground Storage Tanks: DELISTED INDIAN UST

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 2, 2023

Toxics Release Inventory (TRI) Program: TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Oct 19, 2022

PFOA/PFOS Contaminated Sites: PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Sep 14, 2023

Federal Agency Locations with Known or Suspected PFAS Detections: PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from March 2022 to April 2023. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Apr 24, 2023

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/

Government Publication Date: Oct 9, 2022

National Response Center PFAS Spills: ERNS PFAS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Jun 17, 2023

PFAS NPDES Discharge Monitoring: PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: May 1, 2023

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Oct 19, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities: PFAS TSCA

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest : PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 9, 2023

PFAS Industry Sectors: PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 16, 2023

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Jul 26, 2023

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Aug 23, 2023

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Jan 21, 2023

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 15, 2023

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Apr 15, 2023

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

FUDS Munitions Response Sites: FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Dec 30, 2022

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: May 1, 2023

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into eAMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: Jun 13, 2023

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites: LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: May 25, 2023

Alternative Fueling Stations: ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Aug 30, 2023

Superfunds Consent Decrees: CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Apr 19, 2023

Air Facility System: AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments: SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 1, 2023

Polychlorinated Biphenyl (PCB) Transformers: PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Mar 20, 2023

State

Dry Cleaner Remediation Program Prioritization List: PRIORITY CLEAN

The Texas Commission on Environmental Quality (TCEQ) implements environmental standards for dry cleaners. The Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents. Includes prioritized sites identified under the DCRP, as well as sites closed under the DCRP.

Government Publication Date: Mar 1, 2023

Registered Dry Cleaning Facilities: DRYCLEANERS

The Texas Commission of Environment Quality (TCEQ) maintains a statewide registration list of current dry cleaners.

Government Publication Date: Aug 28, 2023

Delisted Drycleaning Facility List: DELISTED DRYCLEANERS

A list of sites which were have been removed from the list of dry cleaning facilities registered with the Texas Commission of Environment Quality (TCEQ). Sites are removed when they are no longer used as dry cleaning facilities.

Government Publication Date: Aug 28, 2023

Groundwater Contamination Cases: GWCC

List of sites present in the TCEQ Groundwater Contamination Viewer, which represent groundwater contamination cases in Texas as per TCEQ publication SFR-056 (current and some previous years). The Joint Groundwater Monitoring and Contamination Report (SFR-056) was designed and produced by the Texas Groundwater Protection Committee in fulfillment of requirements given in Section 26.406 of the Texas Water Code. The information does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

Government Publication Date: Dec 31, 2021

Historical Groundwater Contamination Cases: GWCC HIST

List of sites from a Joint Groundwater Monitoring and Contamination Report provided by the Texas Commission on Environmental Quality (TCEQ) with the Railroad Commission of Texas (RRC). The annual report describes the status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The report provides a general overview of groundwater monitoring by participating members on a program by program basis. Groundwater contamination is broadly defined in the report as any detrimental alteration of the naturally occurring quality of groundwater.

Government Publication Date: Dec 31, 2018

Affected Property Assessment Reports: APAR

List of sites for which an Affected Property Assessment Report has been submitted to the Texas Commission on Environmental Quality (TCEQ). An APAR is required when a person is addressing a release of COCs under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and chemicals of concern (COCs), determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary.

Government Publication Date: Mar 24, 2023

Spills Database: SPILLS

List of Spills reported to Emergency Response Division of the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Jul 31, 2023

Industrial and Hazardous Waste Sites with Corrective Actions: IHW CORR ACTION

List of Industrial and Hazardous Waste sites with Corrective Actions made available by the Texas Commission of Environmental Quality (TCEQ). The mission of the industrial and hazardous waste (IHW) corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes.

Government Publication Date: Aug 28, 2023

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

A list of sites from the Central Registry and ARTS databases where Per- and Polyfluoroalkyl substances (PFAS) containing materials may be of concern. This list is made available by the Remediation Division of the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Aug 3, 2022

Land Application Permits: LAND APPL

Texas Land Application Permits are a requirement from the Texas Commission on Environmental Quality for any domestic facility that disposes of treated effluent by land application such as surface irrigation, evaporation, drainfields or subsurface land application.

Government Publication Date: Jul 17, 2023

Notice of Violation: NOV

List of sites that have been sent a Notice of Violation (NOV) by the Texas Commission on Environmental Quality (TCEQ) Office of Compliance and Enforcement. A Notice of Violation is sent out when a site falls out of compliance and has a prescribed time period to return to compliance.

Government Publication Date: May 2, 2022

Notices of Enforcement: NOE

Listing of investigations resulting in a Notice of Enforcement (NOE), made available by the Texas Commission on Environmental Quality, Office of Compliance & Enforcement. Multiple violations may be due to identified noncompliance with different regulatory requirements (citations).

Government Publication Date: Jun 15, 2023

Environmental Liens Listing: LIENS

List of sites/facilities against which the Texas Commission on Environmental Quality (TCEQ) has placed liens to recover cleanup costs associated with Federal or State Superfund cleanup activities.

Government Publication Date: Jul 24, 2023

Court Orders & Administrative Orders: ORD

List of sites that have been sent an Administrative Order or Court Order by the Texas Commission on Environmental Quality (TCEQ) Office of Compliance and Enforcement.

Government Publication Date: May 22, 2023

Inactive RCRA and Non-RCRA Facilities: HIST RCRA NONRCRA

A list of inactive or no longer registered Resource Conservation and Recovery Act (RCRA) and non-RCRA facilities, provided by the Texas Commission on Environmental Quality (TCEQ). This list includes both hazardous and non-hazardous waste generators, transporters, and receivers. If an unregistered/inactive industrial site generates less than 220 pounds of hazardous or Class 1 industrial waste, it does not have to notify or report to the TCEQ.

Government Publication Date: May 5, 2023

Recycle Texas Online Program: RTOL

A list of recycling facilities under the Recycle Texas Online service/program made available by the Texas Commission of Environmental Quality (TCEQ). This program allowed facilities to self-report and post their own company/facility information. This program is no longer maintained and these data will not be updated.

Government Publication Date: Oct 10, 2011

Underground Injection Control: UIC

List of underground injection control (UIC) permits in the Texas Commission on Environmental Quality (TCEQ) Central Registry database. Includes Class I, Class III, Class IV, Class 5, and non permitted UICs; does not include injection wells regulated by the Railroad Commission of Texas.

Government Publication Date: Jul 24, 2023

Industrial and Hazardous Waste - Generators: IHW GENERATOR

List of active, inactive, and post-closure Industrial and Hazardous Waste Generator Facilities permitted by or registered with the Texas Commission on Environmental Quality (TCEQ) under the Texas Administrative Code (TAC) Title 30 Chapter 335.

Government Publication Date: Jun 22, 2023

Industrial and Hazardous Waste - Transporters: IHW TRANSPORT

List of active, inactive, and post-closure Industrial and Hazardous Waste Transporter Facilities permitted by or registered with the Texas Commission on Environmental Quality (TCEQ) under the Texas Administrative Code (TAC) Title 30 Chapter 335.

Government Publication Date: Jun 22, 2023

New Source Review (NSR) Permits: AIR PERMITS

A list of facilities that have applied for New Source Review air permits made available by the Texas Commission on Environmental Quality (TCEQ).

Government Publication Date: Aug 30, 2023

Point Source Emissions Inventory: EMISSIONS

A list of Texas Commission on Environmental Quality (TCEQ) Point Source Emissions Inventory sites. The Point Source Emissions Inventory is an annual survey of chemical plants, refineries, electric utility plants and other industrial sites that meet the reporting criteria in the TCEQ emissions inventory rule (30 TAC §101.10Exit the TCEQ).

Government Publication Date: Sep 13, 2023

Tier 2 Report: TIER 2

Historica listing of facilities in Texas that store hazardous chemicals and are required to report them under the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986. This data was provided by the Department of State Health Services (DSHS) and contains facility reports for the 2005 through the 2012 calendar years. Since 2012, agencies are unable to release this listing, as Tier II information is confidential under Texas Government Code Chapter 418, the Texas Disaster Act (TDA). Site specific inquiries can be made to the Texas Commission on Environmental Quality Tier II Chemical Reporting Division.

Government Publication Date: Dec 31, 2012

Edwards Aquifer Permits: EDWARDS AQUIFER

Listing of Edward Aquifer permits made available by the Texas Commission on Environmental Quality (TCEQ). The Edwards Aquifer is home to diverse fauna and is a drinking water source for the city of San Antonio and surrounding central Texas communities. Before building on the recharge, transition, or contributing zones of the Edwards Aquifer, a plan must first be reviewed and approved by the TCEQ Edwards Aquifer Protection Program.

Government Publication Date: Jul 6, 2023

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

ERIS Physical Setting Report

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		23101200729p
Date Completed:		October 13, 2023
Project Number:		12739-03
Project Property:		Jalou Tract 1508 US Highway 181 N Texas 78114 TX 78114
Coordinates:		
	Latitude:	29.20385462
	Longitude:	-98.21548328
	UTM Northing:	3227782.55422 Meters
	UTM Easting:	579578.265304 Meters
	UTM Zone:	UTM Zone 14R
	Elevation:	466.88 ft
	Slope Direction:	ENE

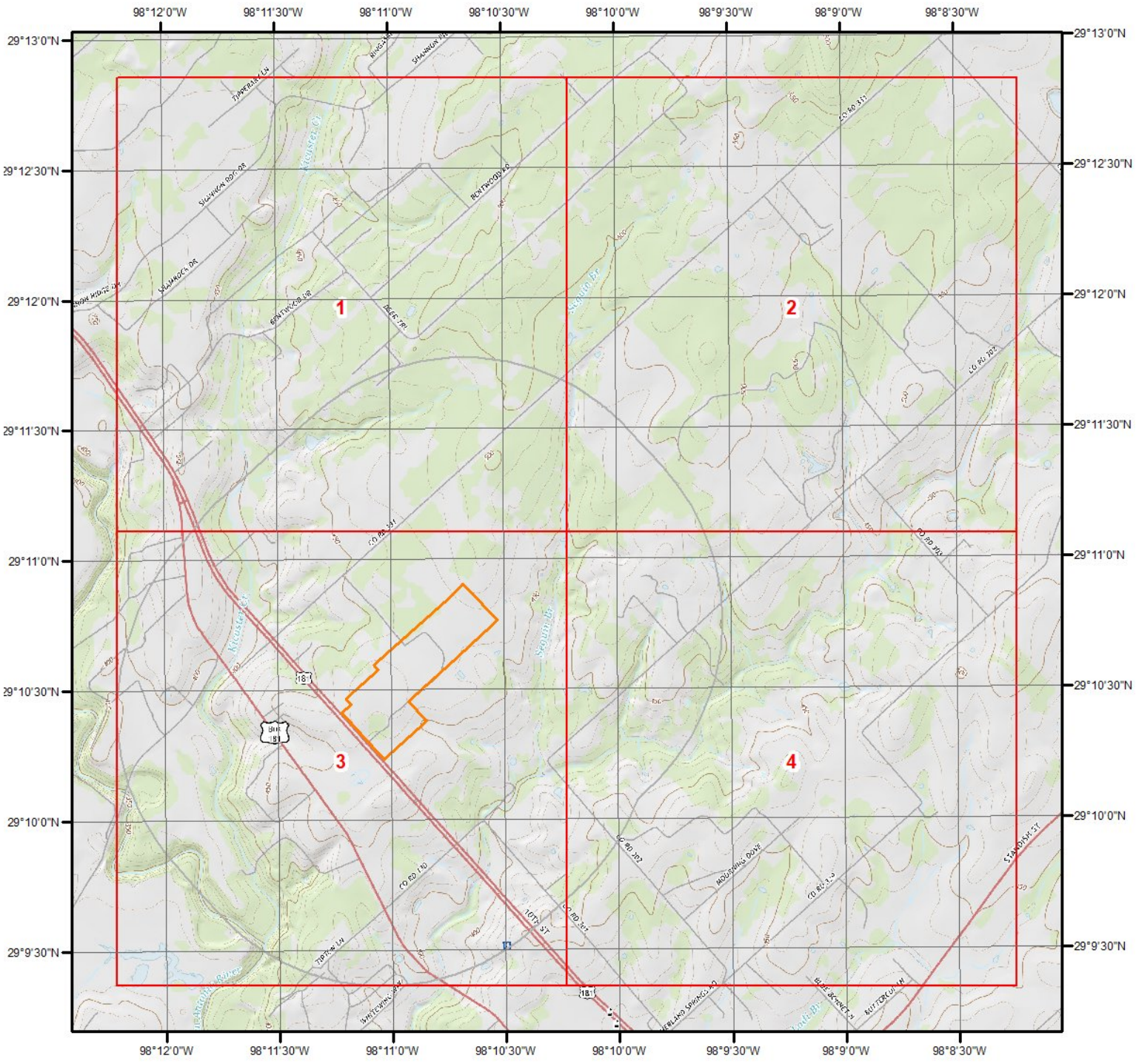
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2019)

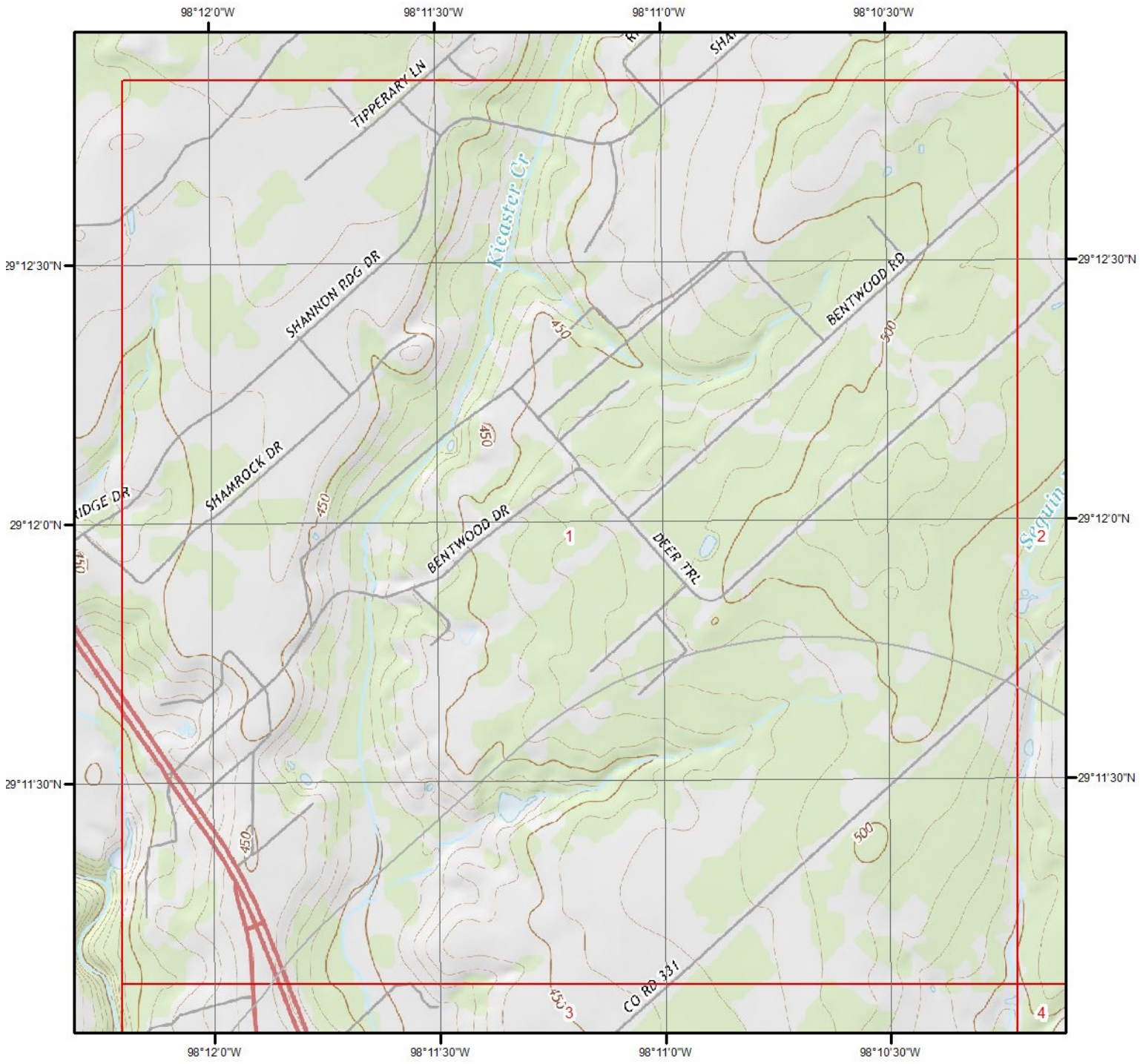
0 0.2 0.4 0.8 1.2 1.6 Miles

N

Quadrangle(s): La Vernia SW,TX; Saspamco,TX; La Vernia,TX; Elmendorf,TX; Floresville,TX; Dewees,TX; Saspamco SE,TX; Marceli

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 1

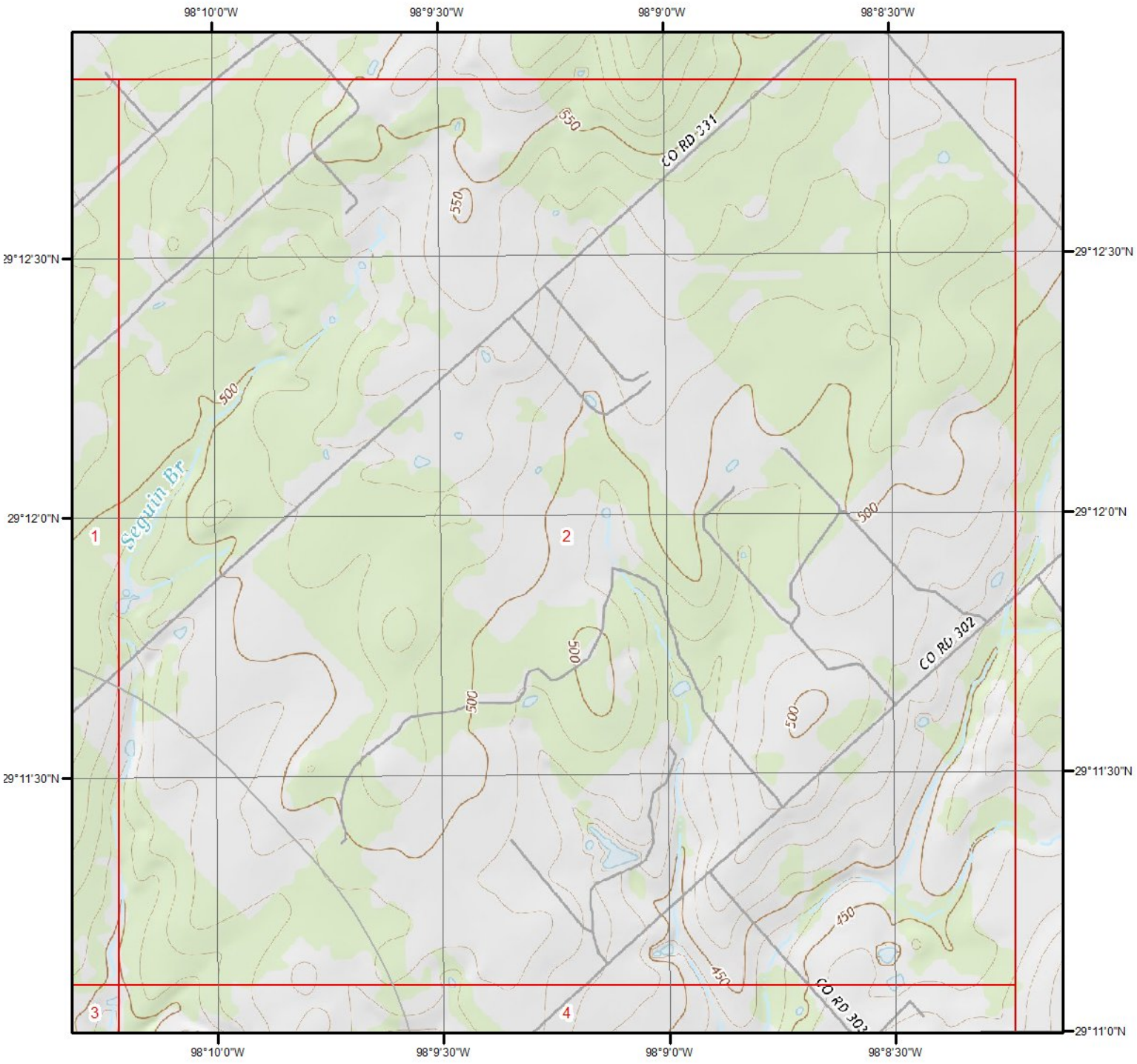
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Floresville,TX

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 2

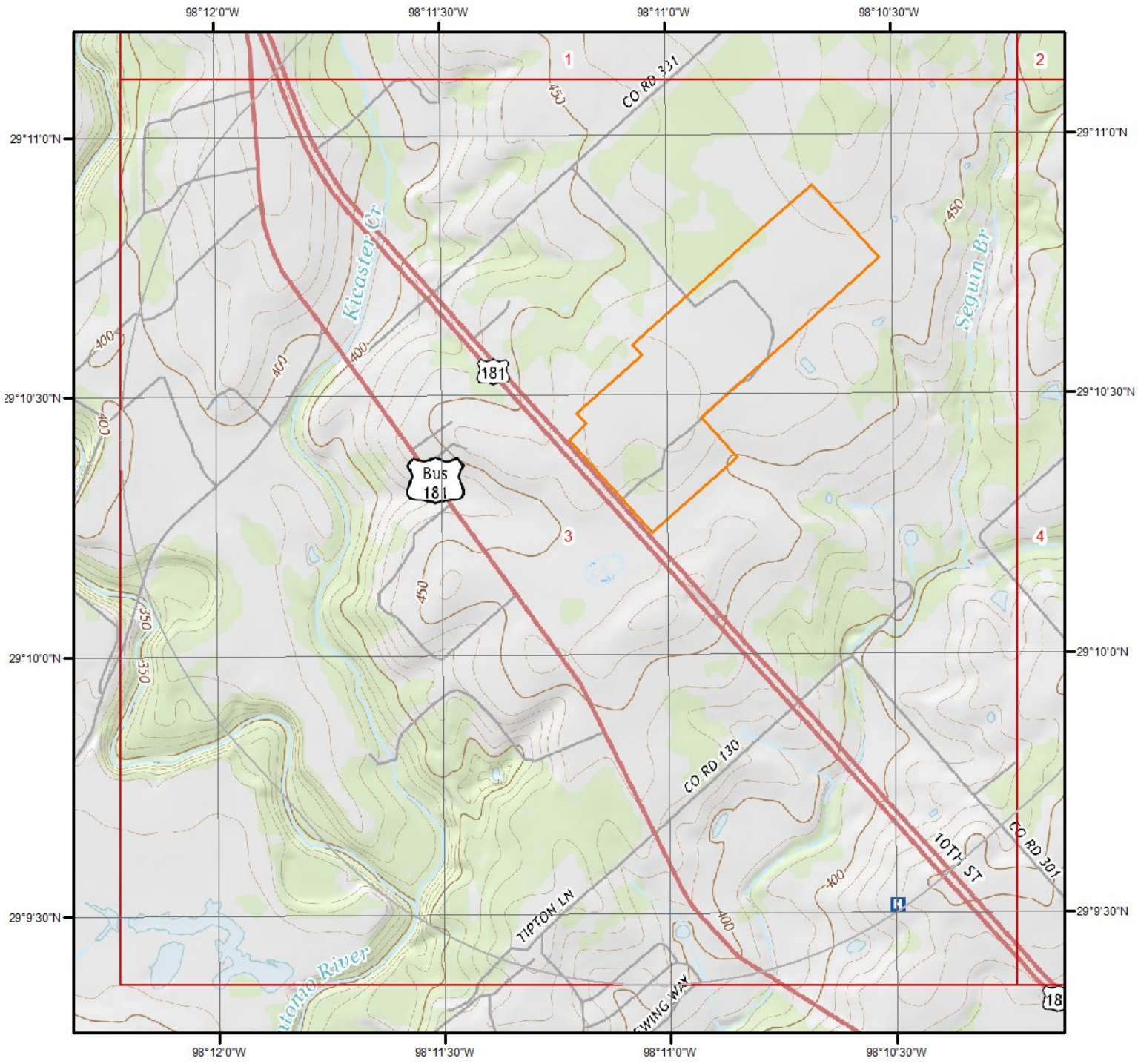
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Floresville,TX

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 3

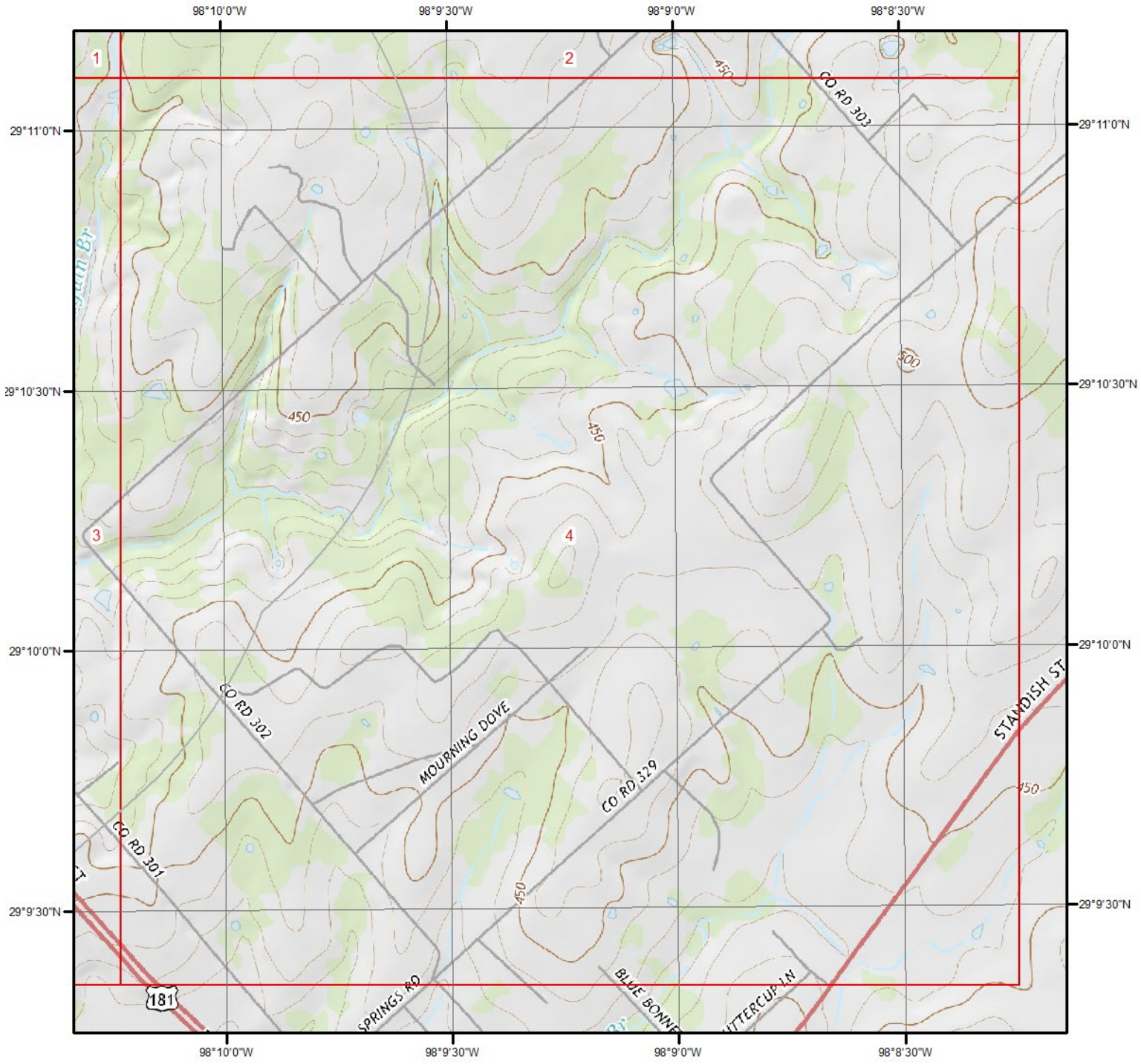
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Floresville,TX

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 4

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Floresville,TX

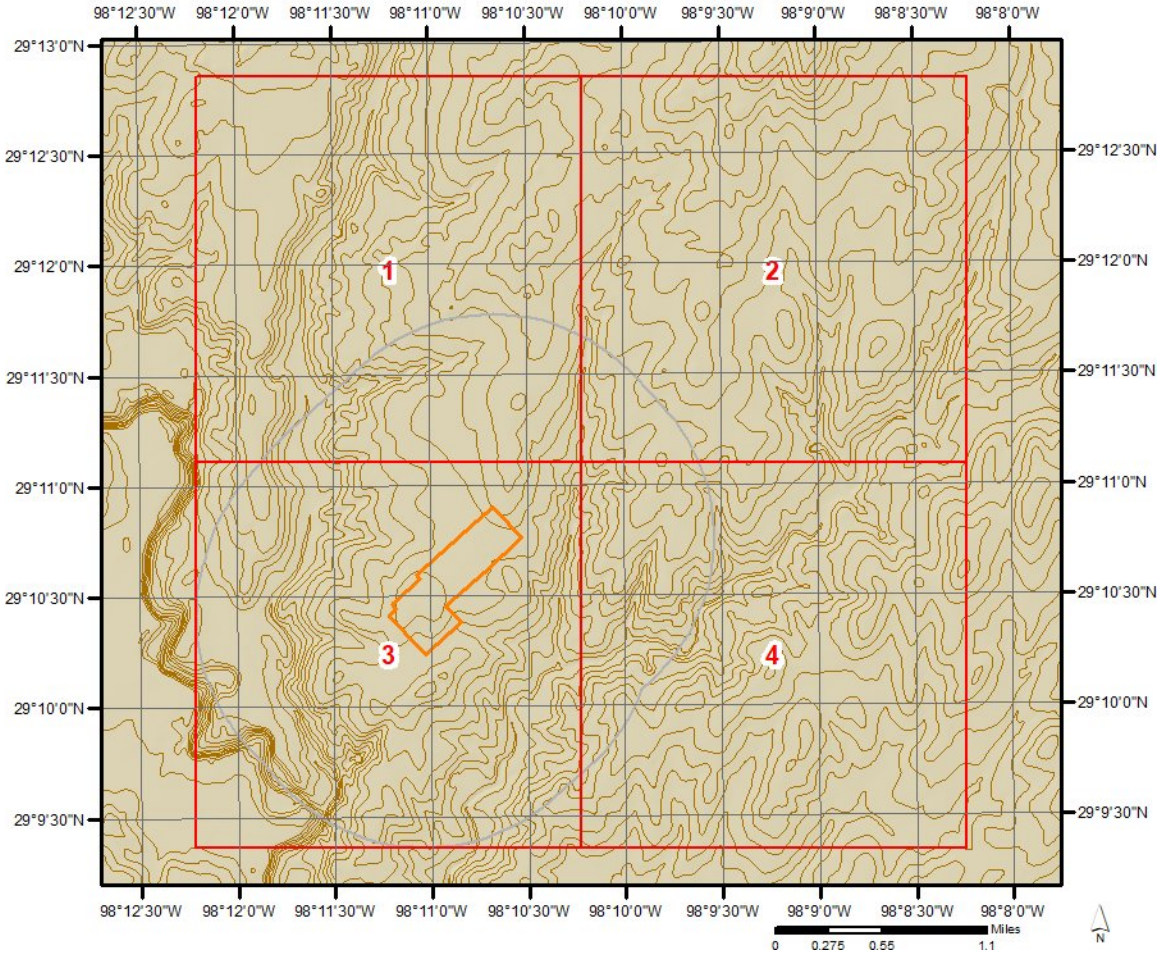
Source: USGS 7.5 Minute Topographic Map

Topographic Information

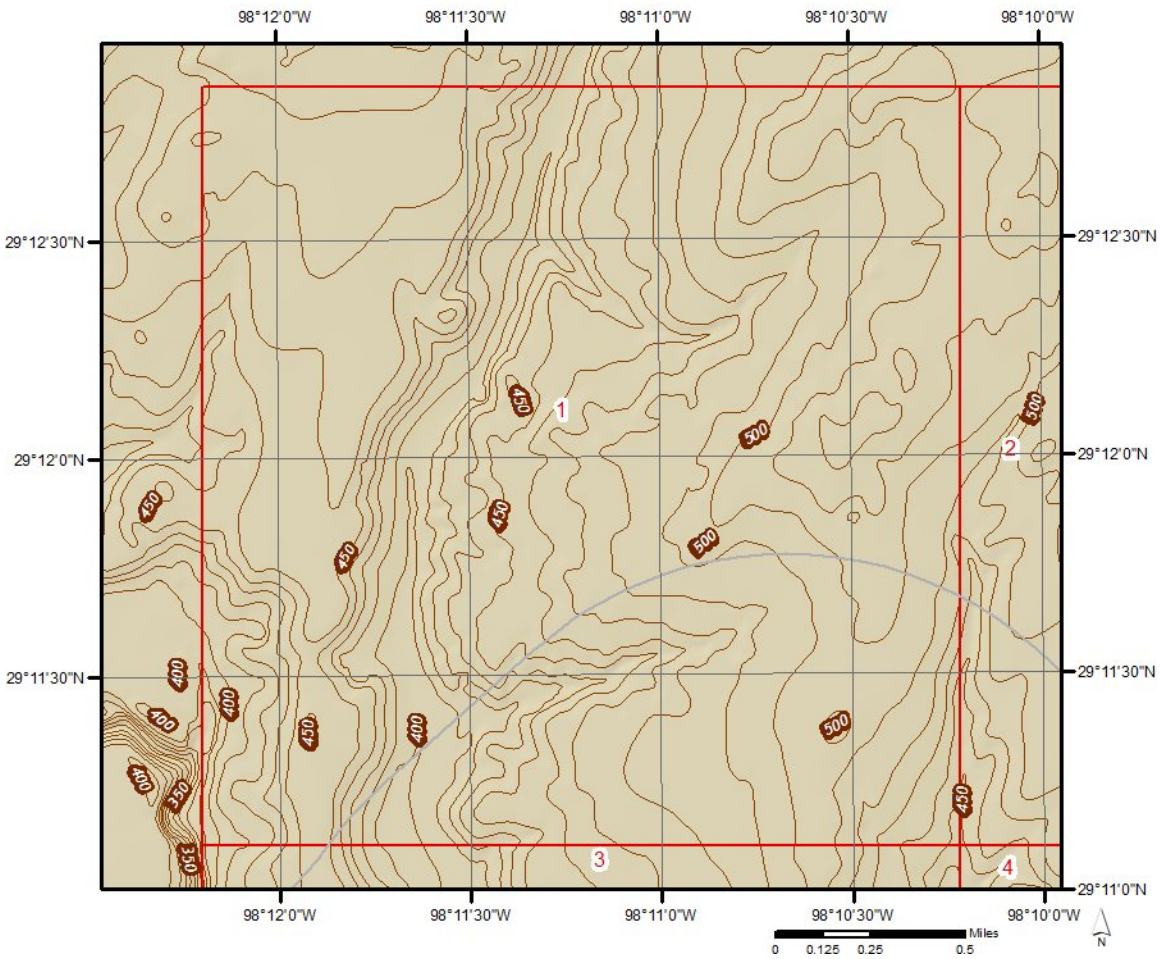
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

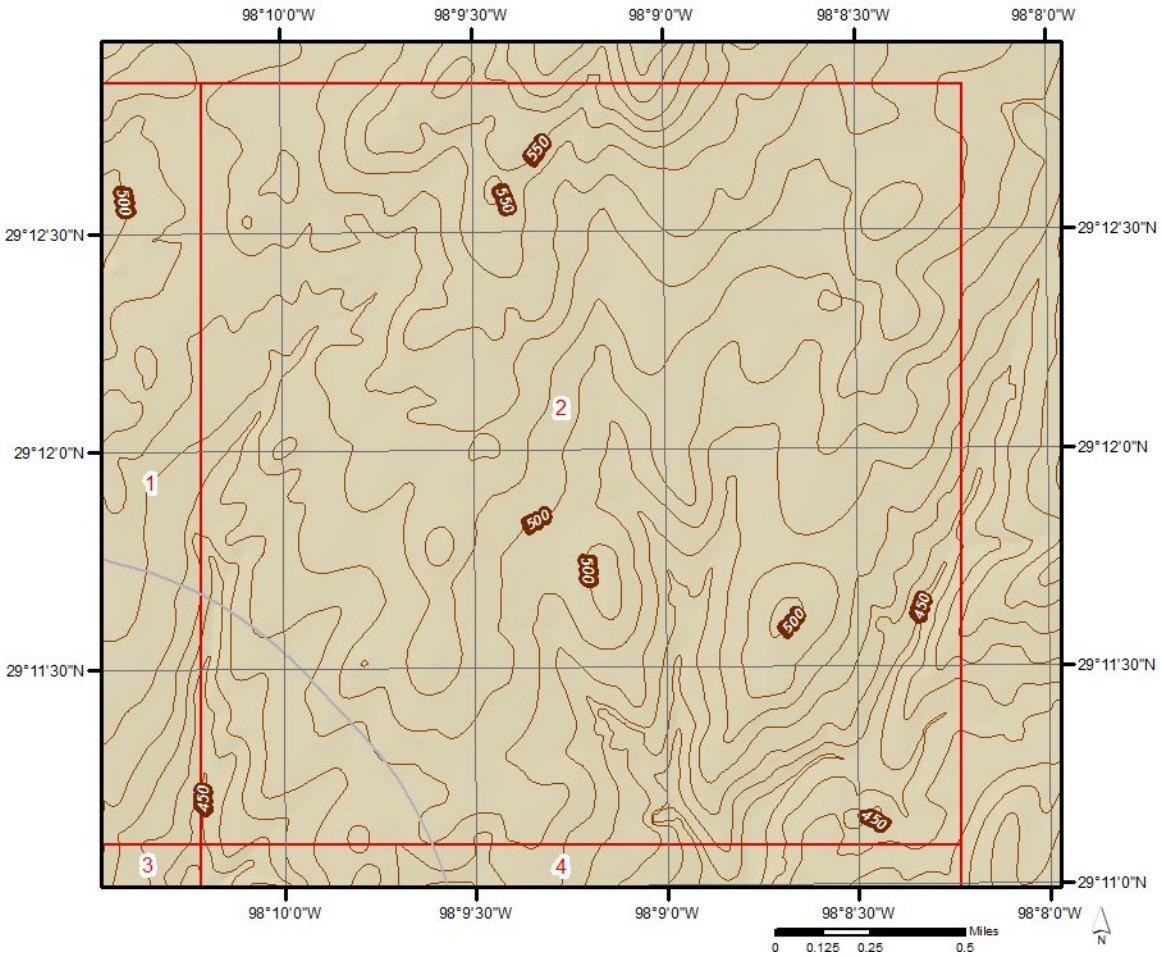
Elevation:	466.88 ft
Slope Direction:	ENE



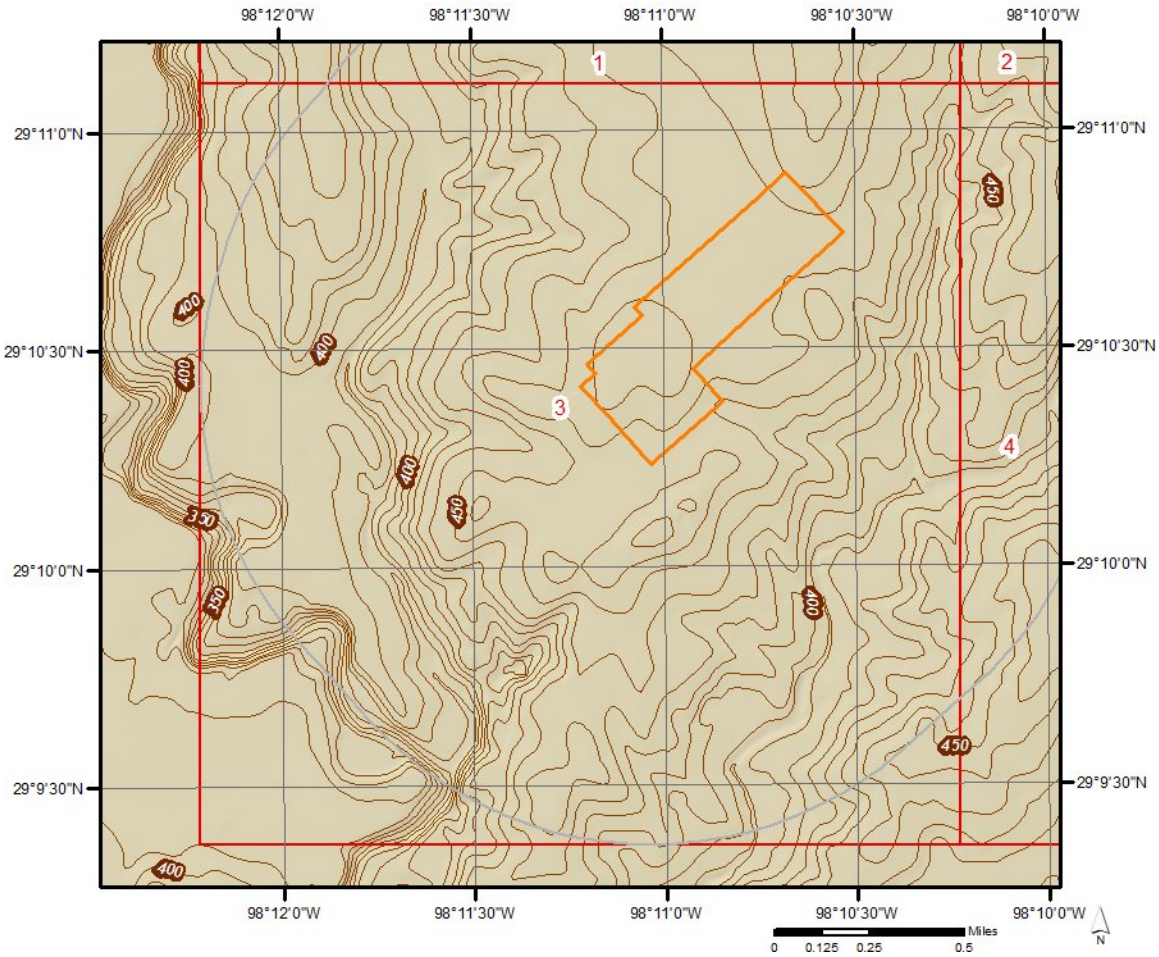
Topographic Information



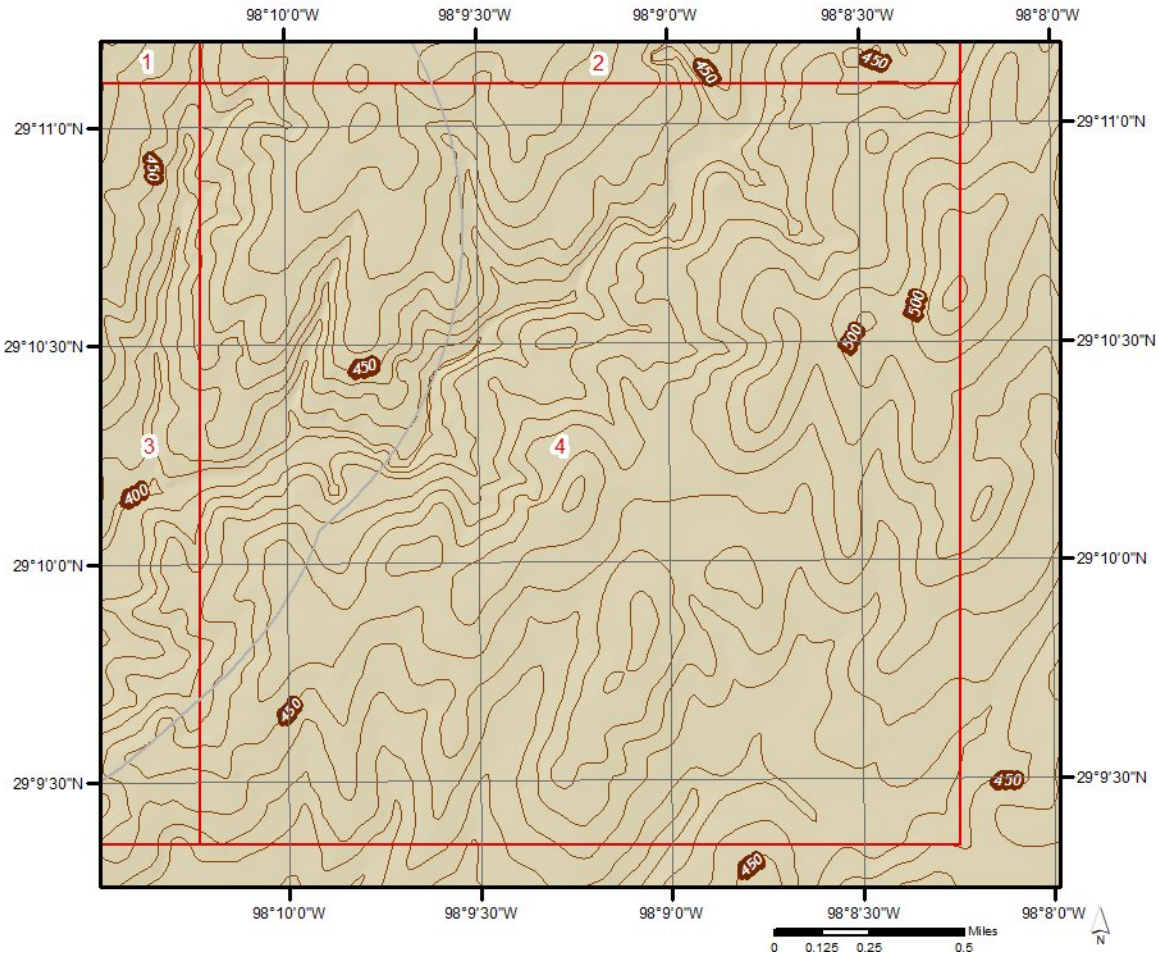
Topographic Information



Topographic Information



Topographic Information



Hydrologic Information

Wetland

0 0.125 0.25 0.5 Miles

N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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Hydrologic Information

Flood Hazard Zones

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlayed. An absent FIRM panel represents no data available.

Miles
0 0.2 0.4

N

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Open Water

Quadrangle(s): La Vernia SW,TX; Saspamco,TX; La Vernia,TX;

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Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

Available FIRM Panels in area:	48493C0295C(effective:2010-11-26) 48493C0300C(effective:2010-11-26) 48493C0290C(effective:2010-11-26)

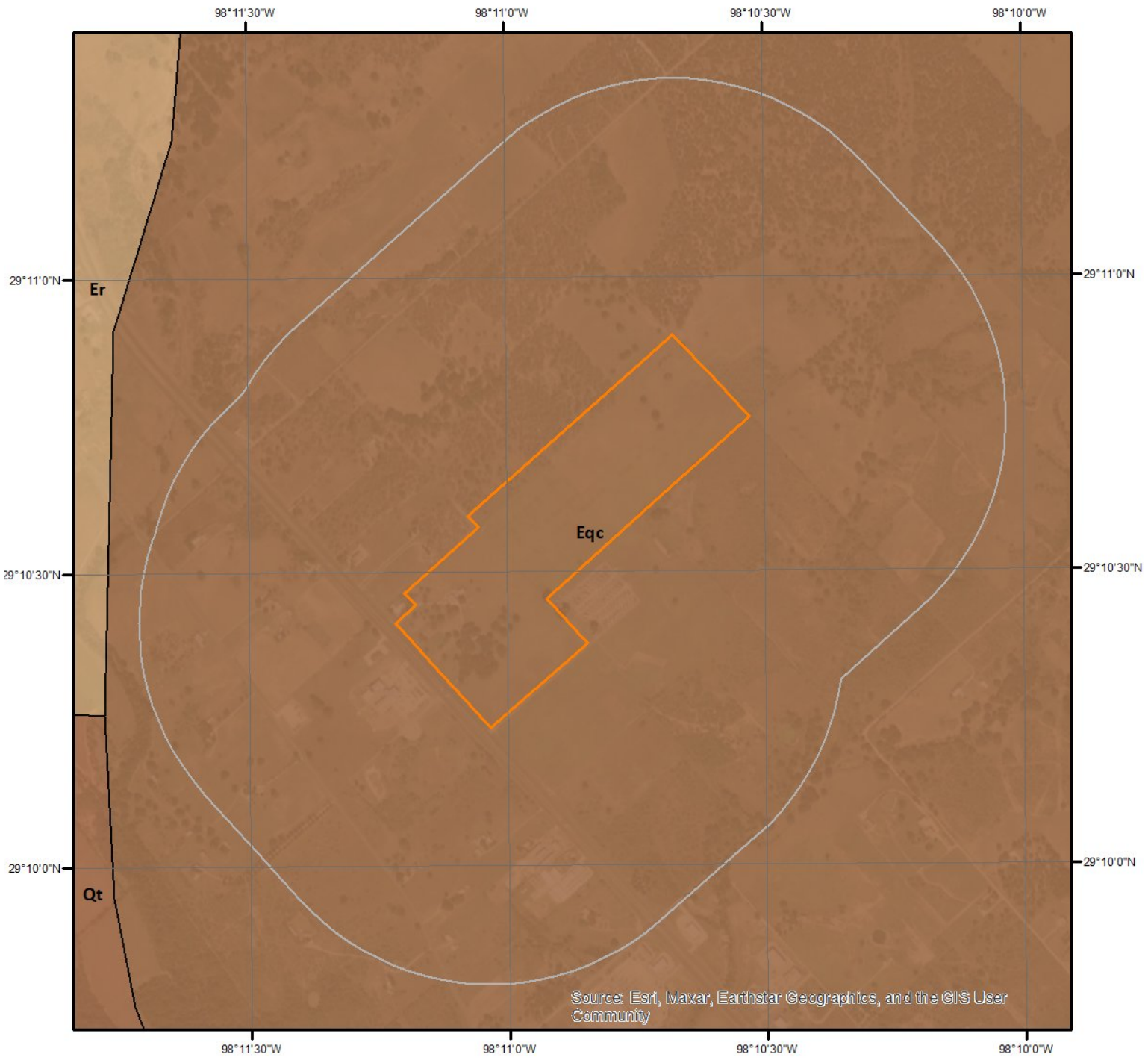
Flood Zone A-01

Zone:	A
Zone subtype:	

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Miles
0 0.2 0.4

N

Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

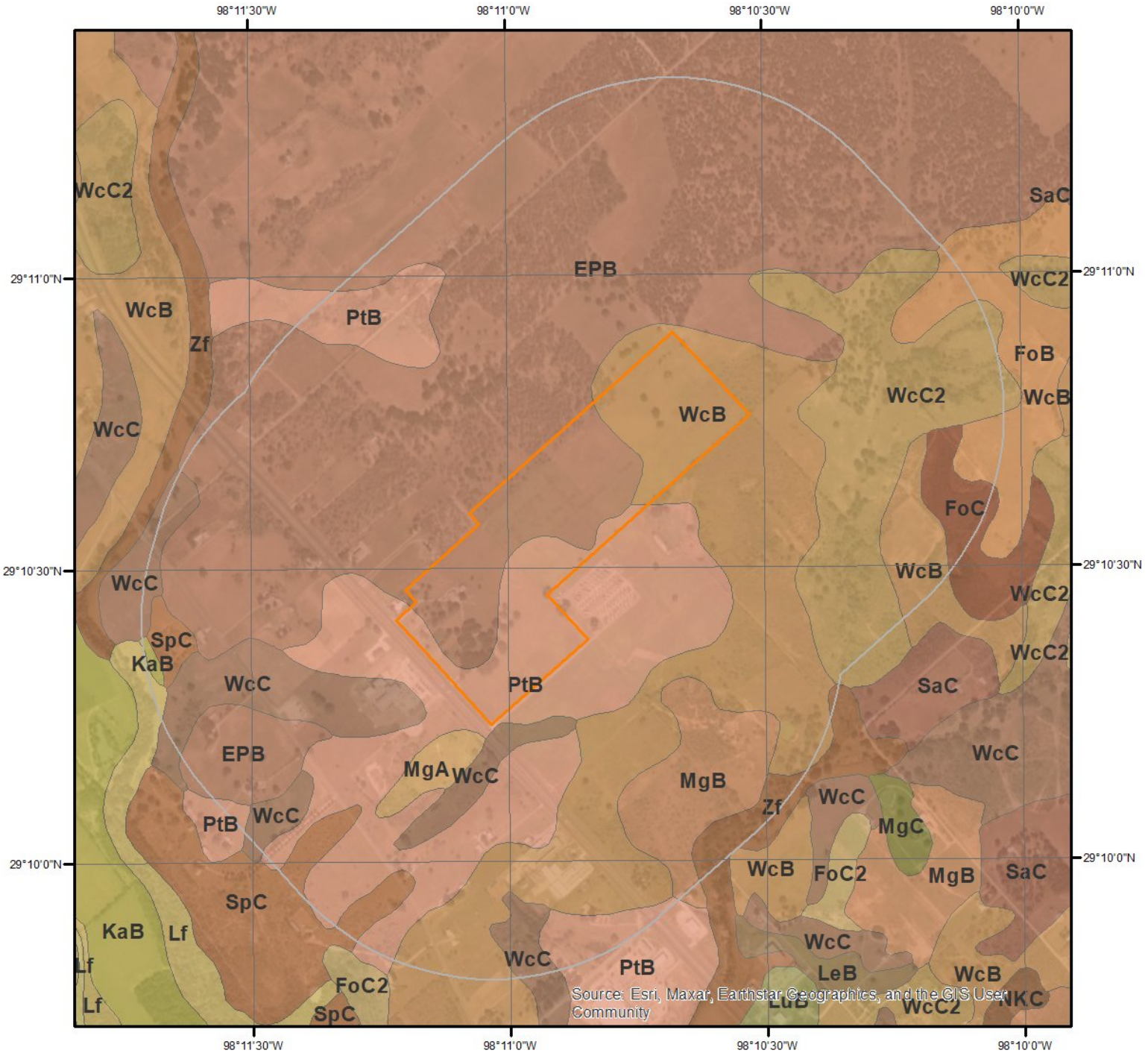
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Eqc

Unit Name:	Queen City Sand
Unit Age:	Phanerozoic | Cenozoic | Tertiary | Eocene
Primary Rock Type:	sandstone
Secondary Rock Type:	siltstone
Unit Description:	Queen City Sand

Soil Information



SSURGO Soils

0 0.2 0.4 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit EPB (94.41%)

Map Unit Name:	Aluf and Hitilo soils, undulating
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Somewhat excessively drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.
Major components are printed below	
Aluf(50%)	
horizon H1(0cm to 117cm)	Fine sand
horizon H2(117cm to 251cm)	Sand
Hitilo(30%)	
horizon H1(0cm to 137cm)	Fine sand
horizon H2(137cm to 178cm)	Sandy clay loam
horizon H3(178cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: EPB - Aluf and Hitilo soils, undulating

Component: Aluf (50%)
The Aluf component makes up 50 percent of the map unit. Slopes are 1 to 8 percent. This component is on sand sheets on inland, dissected coastal plains. The parent material consists of sandy eolian deposits derived from sandstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability classification is 4s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Hitilo (30%)
The Hitilo component makes up 30 percent of the map unit. Slopes are 1 to 5 percent. This component is on sand sheets on inland, dissected coastal plains. The parent material consists of sandy eolian deposits derived from sandstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (20%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit FoB (0.13%)

Map Unit Name:	Floresville fine sandy loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Soil Information

Major components are printed below

Floresville(95%)

horizon A(0cm to 25cm)	Fine sandy loam
horizon Bt(25cm to 76cm)	Clay
horizon Bk(76cm to 112cm)	Sandy clay loam
horizon BCk(112cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: FoB - Floresville fine sandy loam, 1 to 3 percent slopes

Component: Floresville (95%)
The Floresville component makes up 95 percent of the map unit. Slopes are 1 to 3 percent. This component is on broad ridges on inland, dissected coastal plains. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY024TX Tight Sandy Loam ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Miguel (3%)
Generated brief soil descriptions are created for major soil components. The Miguel soil is a minor component.

Component: Wilco (2%)
Generated brief soil descriptions are created for major soil components. The Wilco soil is a minor component.

Map Unit FoC (0.05%)

Map Unit Name:	Floresville fine sandy loam, 3 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Floresville(95%)

horizon A(0cm to 25cm)	Fine sandy loam
horizon Bt(25cm to 76cm)	Clay
horizon Bk(76cm to 112cm)	Sandy clay loam
horizon BCk(112cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: FoC - Floresville fine sandy loam, 3 to 5 percent slopes

Component: Floresville (95%)
The Floresville component makes up 95 percent of the map unit. Slopes are 3 to 5 percent. This component is on broad ridges on inland, dissected coastal plains. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY024TX Tight Sandy Loam ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Soil Information

Component: Miguel (3%)
Generated brief soil descriptions are created for major soil components. The Miguel soil is a minor component.

Component: San Antonio (2%)
Generated brief soil descriptions are created for major soil components. The San Antonio soil is a minor component.

Map Unit KaB (0.0%)

Map Unit Name:	Atco loam, 0 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Atco(95%)	
horizon H1(0cm to 41cm)	Loam
horizon H2(41cm to 157cm)	Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: KaB - Atco loam, 0 to 3 percent slopes

Component: Atco (95%)
The Atco component makes up 95 percent of the map unit. Slopes are 0 to 3 percent. This component is on erosion remnants on stream terraces on inland, dissected coastal plains. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R083AY019TX Gray Sandy Loam ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 50 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit Lf (3.43%)

Map Unit Name:	Loire and Divot soils, frequently flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Loire(55%)	
horizon H1(0cm to 20cm)	Silty clay loam
horizon H2(20cm to 41cm)	Silty clay loam
horizon H3(41cm to 107cm)	Loam
horizon H4(107cm to 203cm)	Fine sandy loam
Divot(35%)	
horizon H1(0cm to 25cm)	Silty clay loam
horizon H2(25cm to 203cm)	Silty clay loam

Component Description:

Soil Information

Minor map unit components are excluded from this report.

Map Unit: Lf - Loire and Divot soils, frequently flooded

Component: Loire (55%)
The Loire component makes up 55 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on river valleys. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY013TX Loamy Bottomland ecological site. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Divot (35%)
The Divot component makes up 35 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on river valleys. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R083BY013TX Loamy Bottomland ecological site. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 23 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (10%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit MgA (0.02%)

Map Unit Name:	Miguel fine sandy loam, 0 to 1 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Miguel(95%)

horizon A(0cm to 28cm)	Fine sandy loam
horizon Bt(28cm to 84cm)	Sandy clay
horizon Btk(84cm to 109cm)	Sandy clay loam
horizon BC(109cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MgA - Miguel fine sandy loam, 0 to 1 percent slopes

Component: Miguel (95%)
The Miguel component makes up 95 percent of the map unit. Slopes are 0 to 1 percent. This component is on low hills on inland, dissected coastal plains. The parent material consists of loamy and/or clayey residuum weathered from sandstone and/or mudstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY024TX Tight Sandy Loam ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 8 within 30 inches of the soil surface.

Component: Wilco (2%)

Soil Information

Generated brief soil descriptions are created for major soil components. The Wilco soil is a minor component.

Component: Leming (2%)
Generated brief soil descriptions are created for major soil components. The Leming soil is a minor component.

Component: Tiocano (1%)
Generated brief soil descriptions are created for major soil components. The Tiocano soil is a minor component.

Map Unit MgB (0.08%)

Map Unit Name:	Miguel fine sandy loam, 1 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Miguel(95%)

horizon A(0cm to 28cm)	Fine sandy loam
horizon Bt(28cm to 84cm)	Sandy clay
horizon Btk(84cm to 109cm)	Sandy clay loam
horizon BC(109cm to 203cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MgB - Miguel fine sandy loam, 1 to 3 percent slopes

Component: Miguel (95%)
The Miguel component makes up 95 percent of the map unit. Slopes are 1 to 3 percent. This component is on low hills on inland, dissected coastal plains. The parent material consists of loamy and/or clayey residuum weathered from sandstone and/or mudstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY024TX Tight Sandy Loam ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 8 within 30 inches of the soil surface.

Component: Bryde (2%)
Generated brief soil descriptions are created for major soil components. The Bryde soil is a minor component.

Component: Wilco (2%)
Generated brief soil descriptions are created for major soil components. The Wilco soil is a minor component.

Component: Tiocano (1%)
Generated brief soil descriptions are created for major soil components. The Tiocano soil is a minor component.

Map Unit PtB (0.53%)

Map Unit Name:	Poth loamy fine sand, 0 to 3 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Poth(95%)

horizon H1(0cm to 76cm)	Loamy fine sand
horizon H2(76cm to 112cm)	Sandy clay
horizon H3(112cm to 188cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: PtB - Poth loamy fine sand, 0 to 3 percent slopes

Component: Poth (95%)
The Poth component makes up 95 percent of the map unit. Slopes are 0 to 3 percent. This component is on stream terraces on river valleys. The parent material consists of eolian sands over loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit SpC (0.13%)

Map Unit Name:	Saspamco fine sandy loam, 3 to 5 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Saspamco(95%)

horizon H1(0cm to 46cm)	Fine sandy loam
horizon H2(46cm to 127cm)	Fine sandy loam
horizon H3(127cm to 157cm)	Loamy fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: SpC - Saspamco fine sandy loam, 3 to 5 percent slopes

Component: Saspamco (95%)
The Saspamco component makes up 95 percent of the map unit. Slopes are 3 to 5 percent. This component is on erosional remnant stream terraces on inland, dissected coastal plains. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY019TX Gray Sandy Loam ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 53 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit WcB (0.52%)

Map Unit Name:	Wilco loamy fine sand, 0 to 3 percent slopes

Soil Information

Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Wilco(95%)

horizon H1(0cm to 41cm)	Loamy fine sand
horizon H2(41cm to 81cm)	Sandy clay
horizon H3(81cm to 97cm)	Sandy clay loam
horizon H4(97cm to 157cm)	Fine sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: WcB - Wilco loamy fine sand, 0 to 3 percent slopes

Component: Wilco (95%)
The Wilco component makes up 95 percent of the map unit. Slopes are 0 to 3 percent. This component is on broad interfluves on inland dissected coastal plains. The parent material consists of residuum weathered from sandstone and shale of Eocene age. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit WcC (0.31%)

Map Unit Name:	Wilco loamy fine sand, 3 to 8 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Wilco(95%)

horizon H1(0cm to 41cm)	Loamy fine sand
horizon H2(41cm to 81cm)	Sandy clay
horizon H3(81cm to 97cm)	Sandy clay loam
horizon H4(97cm to 157cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: WcC - Wilco loamy fine sand, 3 to 8 percent slopes

Component: Wilco (95%)
The Wilco component makes up 95 percent of the map unit. Slopes are 3 to 8 percent. This component is on broad interfluves on inland dissected coastal plains. The parent material consists of residuum weathered from sandstone and shale of Eocene age. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability

classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit WcC2 (0.21%)

Map Unit Name:	Wilco loamy fine sand, 3 to 8 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Wilco(95%)

horizon H1(0cm to 41cm)	Loamy fine sand
horizon H2(41cm to 81cm)	Sandy clay
horizon H3(81cm to 97cm)	Sandy clay loam
horizon H4(97cm to 157cm)	Sandy clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: WcC2 - Wilco loamy fine sand, 3 to 8 percent slopes, eroded

Component: Wilco (95%)
The Wilco, eroded component makes up 95 percent of the map unit. Slopes are 3 to 8 percent. This component is on broad interfluves on inland dissected coastal plains. The parent material consists of residuum weathered from sandstone and shale of Eocene age. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083AY022TX Loamy Sand ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit Zf (0.18%)

Map Unit Name:	Zavala fine sandy loam, frequently flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Zavala(95%)

horizon H1(0cm to 25cm)	Fine sandy loam
horizon H2(25cm to 203cm)	Fine sandy loam

Component Description:

Minor map unit components are excluded from this report.

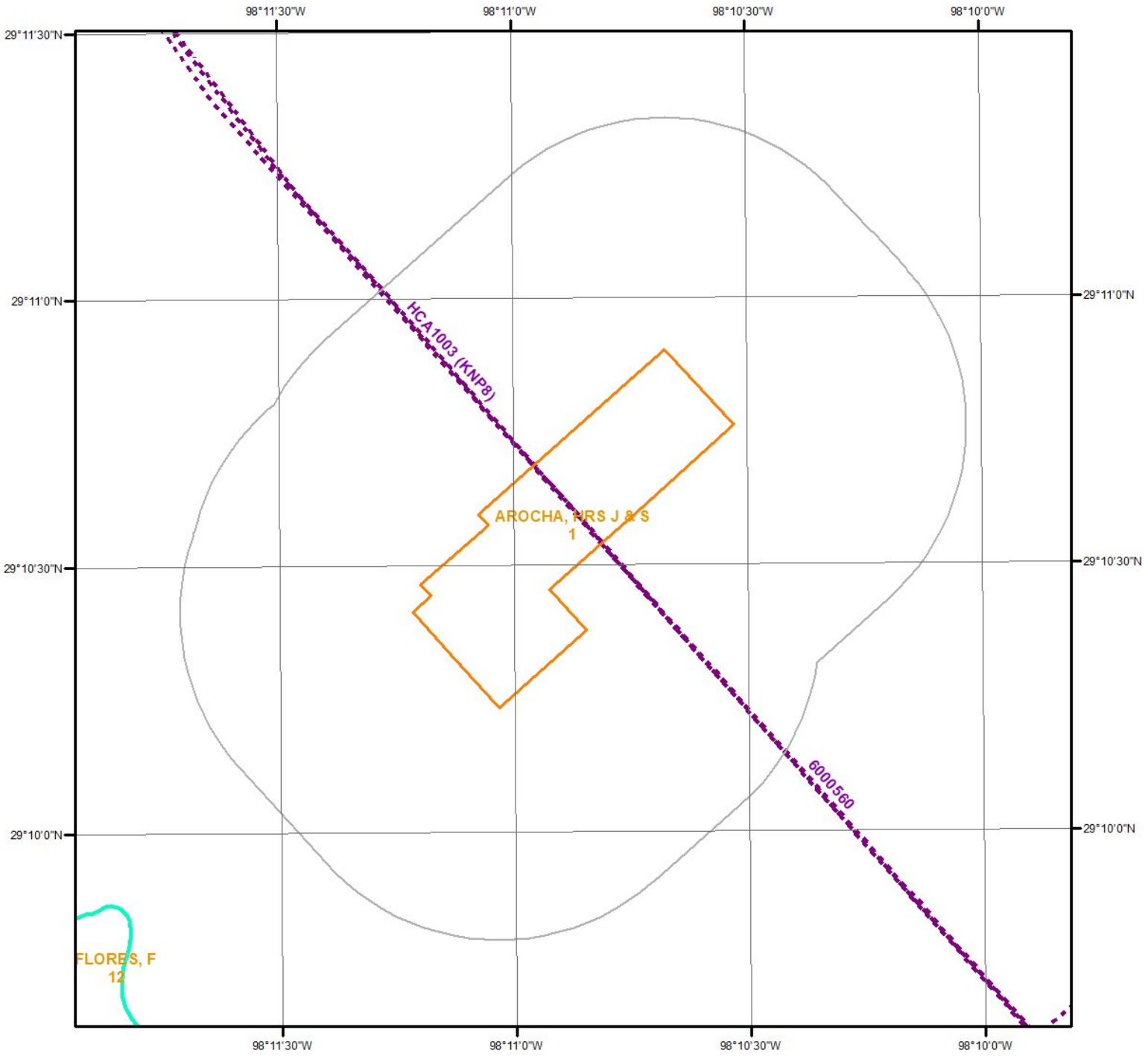
Map Unit: Zf - Zavala fine sandy loam, frequently flooded

Soil Information

Component: Zavala (95%)
The Zavala component makes up 95 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on river valleys. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R083AY013TX Loamy Bottomland ecological site. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (5%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Pipeline and Survey Information



Survey & Pipeline Map

Miles
0 0.2 0.4

N

This maps shows Survey & Pipeline around the target property. Please refer to the report for detailed descriptions.

Legend

- Pipeline
- Survey

Pipeline and Survey Detail Report

The previous page shows a pipeline and survey map. Detailed information about each unit is provided below.

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT

Pipeline and Survey Detail Report

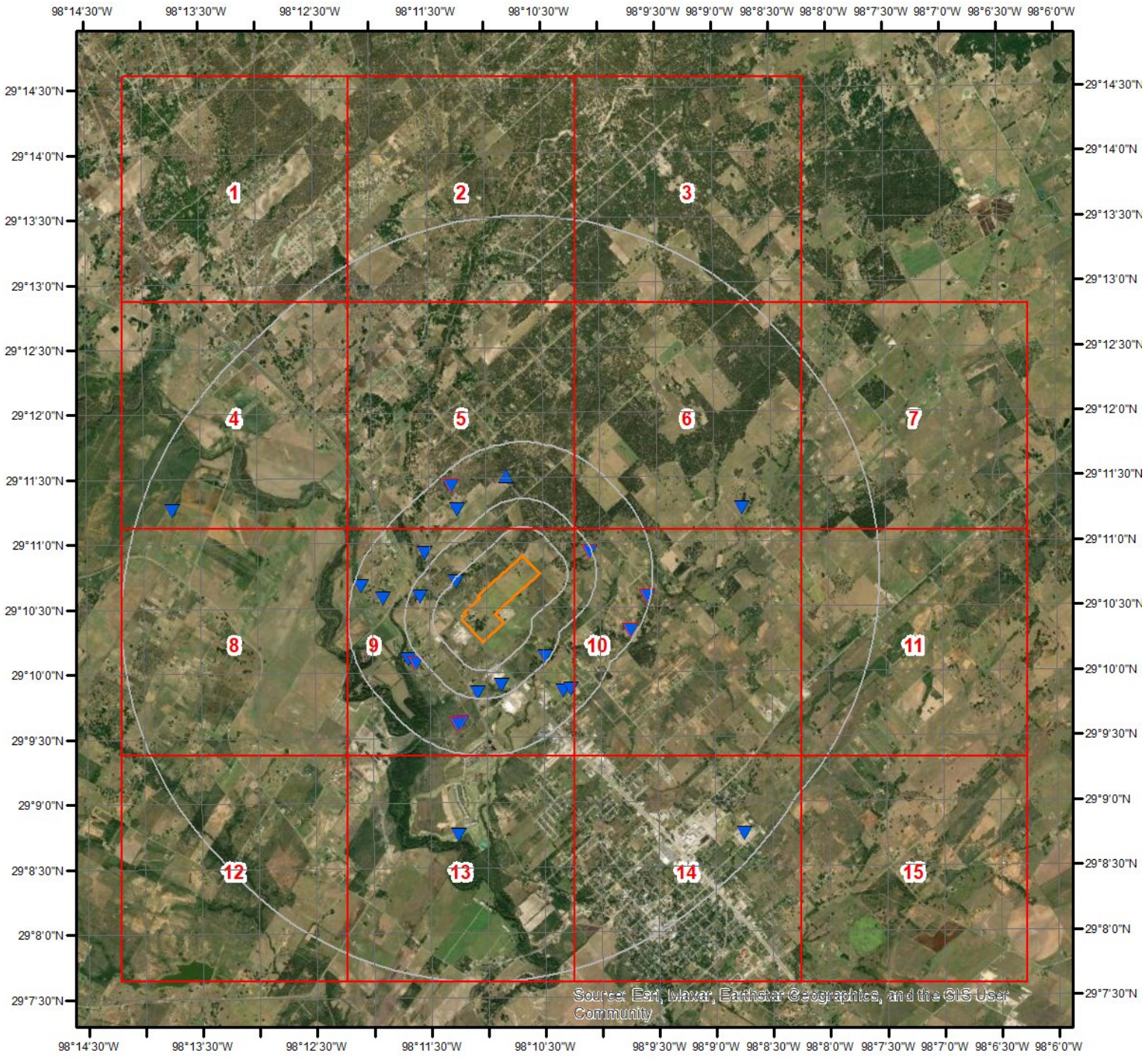
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	6000560
Status	I
T4 Permit NO	03883
Commodity	NGT
Cmdty Desc	NATURAL GAS
Operator	ENTERPRISE PRODUCTS OPERATINGLLC
System Name	SOUTH TEXAS-TX150
Diameter (inches)	20

Pipe Line ID	HCA1003 (KNP8)
Status	I
T4 Permit NO	09082
Commodity	CRO
Cmdty Desc	CRUDE OIL
Operator	THE SAN ANTONIO REFINERY LLC
System Name	KARNES NORTH GATHERING SYSTEM
Diameter (inches)	8.63

Pipe Line ID	
Status	I
T4 Permit NO	09842
Commodity	CRO
Cmdty Desc	CRUDE OIL
Operator	EPIC CONSOLIDATED OPS, LLC
System Name	TIERRA NORTH PIPELINE SYSTEM
Diameter (inches)	4.5

Wells and Additional Sources



Wells & Additional Sources

N

0 0.5 1 2 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 1

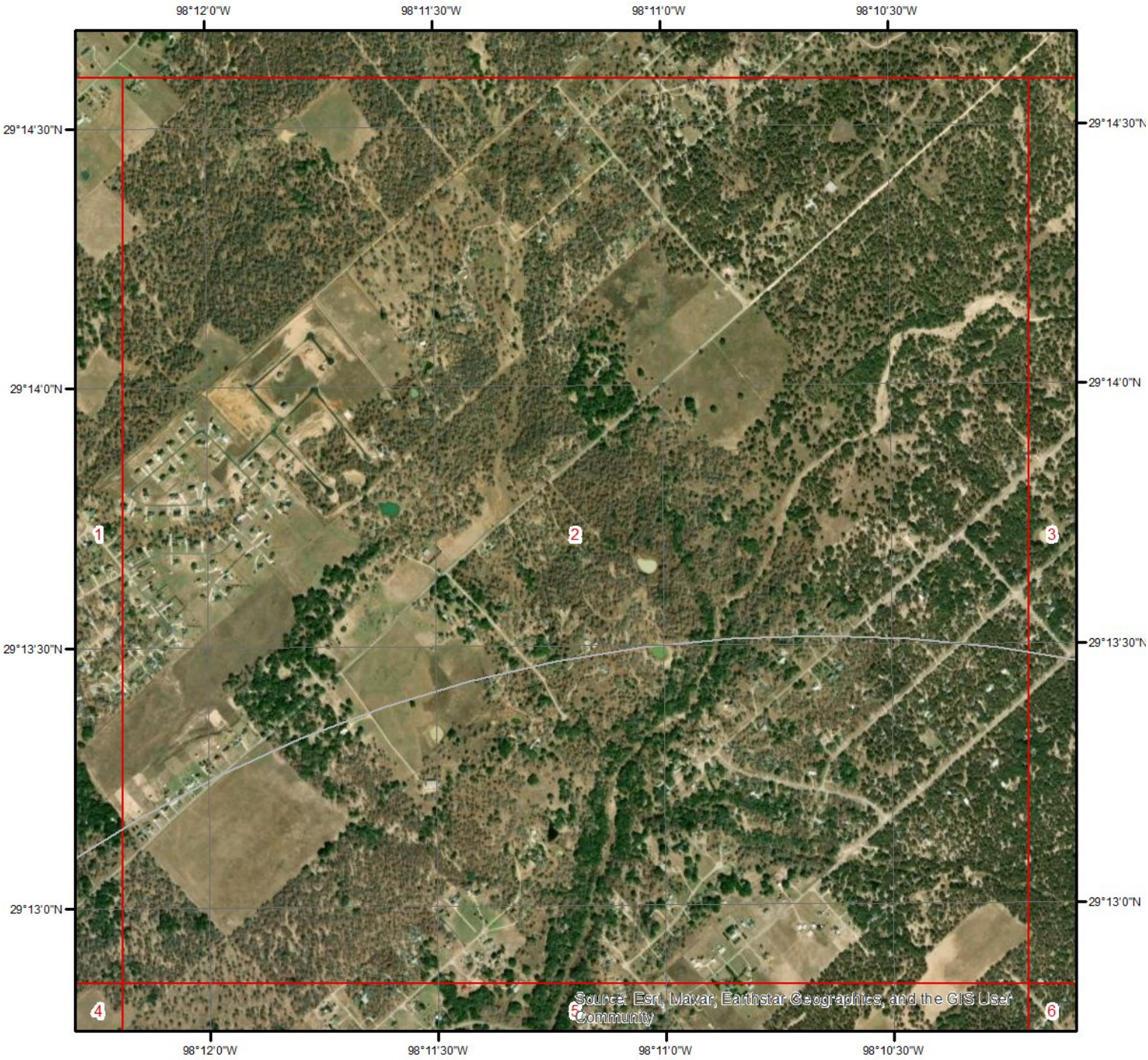
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 2

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 3

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 4

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 5

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 6

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 7

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 8

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 9

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 10

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 11

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 12

Miles
0 0.15 0.3 0.6

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources

Wells & Additional Sources - Page 13

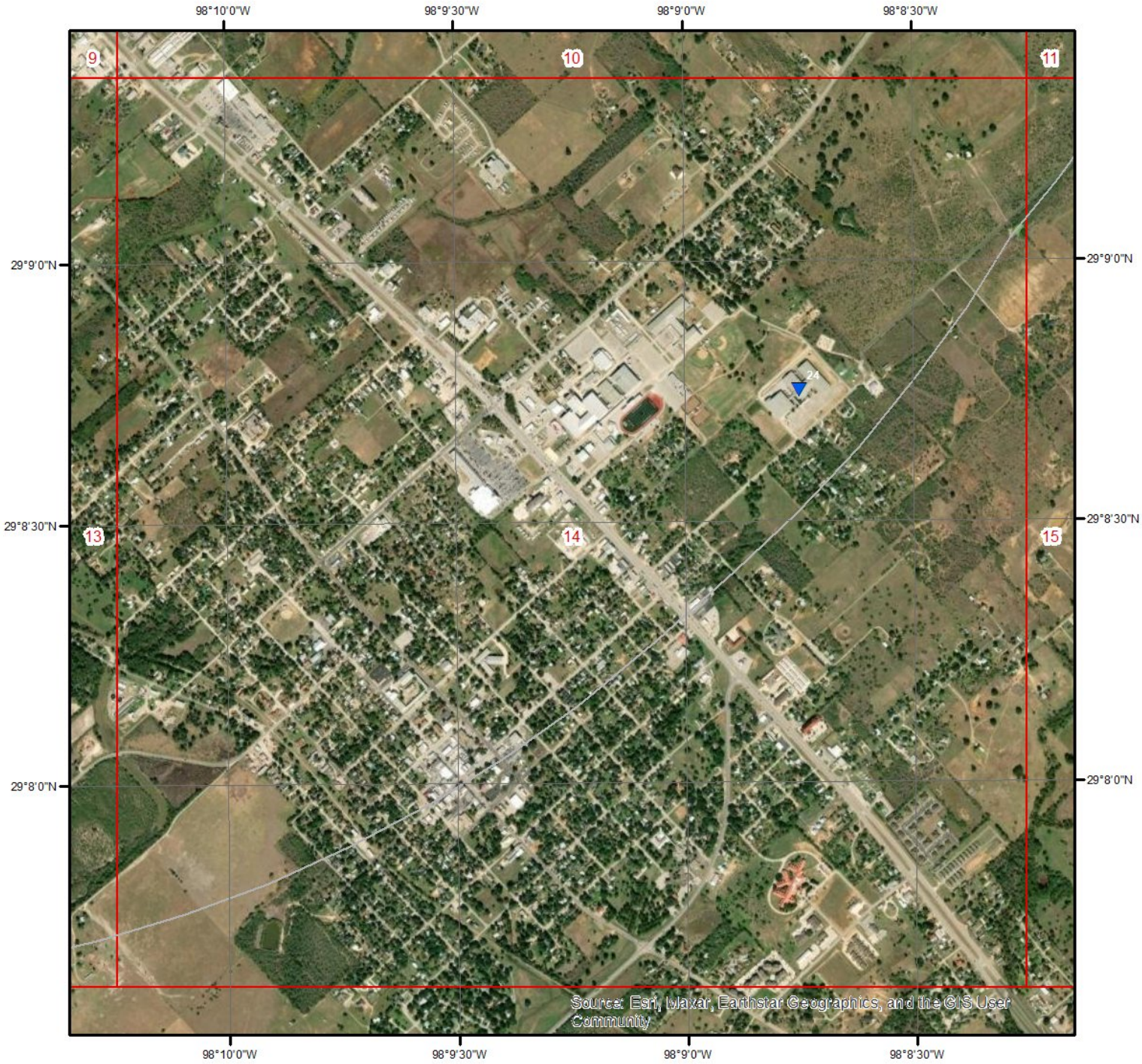
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 14

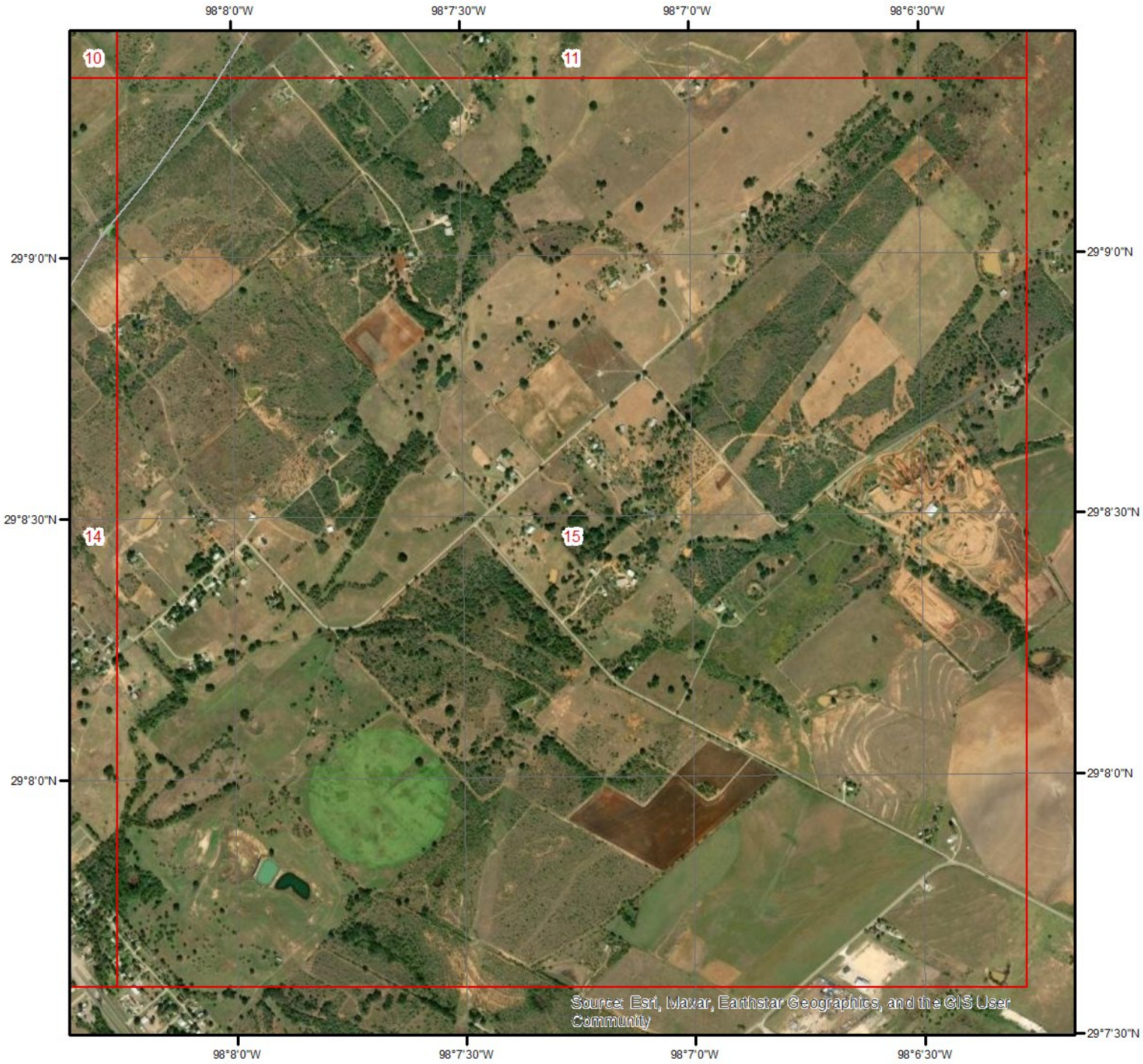
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 15

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
	No records found		

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
	No records found		

USGS National Water Information System

Map Key	ID	Distance (ft)	Direction
	No records found		

Wells from NWIS

Map Key	ID	Distance (ft)	Direction
	No records found		

State Sources

Fort Bend Subsidence District Water Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Groundwater Database

Map Key	State Well NO	Distance (ft)	Direction
1	6855502	1195.64	WNW
1	M. J. Oats	1195.64	WNW
2	6855501	2499.20	SE
2	Emil Frieda	2499.20	SE
10	J. R. McDonald	3115.82	SW
10	6855504	3115.82	SW

Harris Galveston Subsidence District Water Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

High Plains Water Wells

Wells and Additional Sources Summary

Map Key	ID	Distance (ft)	Direction
	No records found		

Oil and Gas Wells

Map Key	API	Distance (ft)	Direction
8	493	2575.25	ENE
9	493	2961.17	SW
14	493	4587.28	NNW
16	493	3873.58	SSW
17	493	4018.20	SSW
18	493	5009.01	ESE
20	493	5169.73	E

Plotted Water Wells

Map Key	WWD ID	Distance (ft)	Direction
7	481652	3590.80	NNW
7	1033680	3590.80	NNW
21	1033684	9062.65	S
22	1033681	9921.01	ENE
23	1033679	14366.98	WNW
24	1033685	14888.41	SE

Plugged Water Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Public Water Systems Wells and Surface Intakes

Map Key	ID	Distance (ft)	Direction
	No records found		

Select Wells from SDR

Map Key	ID	Distance (ft)	Direction
	No records found		

Submitted Drillers Report Database

Map Key	Well Rpt Track No	Distance (ft)	Direction
3	159867	2159.11	W
4	76209	3114.85	WNW
5	172094	2213.41	S
6	639132	2371.03	SSW
11	291522	4205.75	SE
12	551448	3755.03	W
13	524975	4372.51	SE
15	278050	3796.67	N
19	358722	4932.30	W

Wells and Additional Sources Summary

Underground Injection Control

Map Key	ID	Distance (ft)	Direction
	No records found		

Water Utility Database

Map Key	ID	Distance (ft)	Direction
	No records found		

Well Log Reports from Plotted Water Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Wells and Additional Sources Detail Report

Groundwater Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	WNW	0.23	1,195.64	444.57	GWDB

Well Rep Track No:	
State Well NO:	6855502
Owner Name:	M. J. Oats
Drilling Start Dt:	
Drilling Month:	1
Drilling Day:	14
Drilling Year:	1965
Well Depth:	200
Well Usage:	Irrigation
Water Level Status:	
Latitude:	29.1783330
Longitude:	-98.1877780
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6855502&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6855502&Cnty=Wilson

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	SE	0.47	2,499.20	405.73	GWDB

Well Rep Track No:	
State Well NO:	6855501
Owner Name:	Emil Frieda
Drilling Start Dt:	
Drilling Month:	
Drilling Day:	
Drilling Year:	1914
Well Depth:	87
Well Usage:	Domestic
Water Level Status:	
Latitude:	29.1686110
Longitude:	-98.1747220
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6855501&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6855501&Cnty=Wilson

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	SW	0.59	3,115.82	416.15	GWDB

Wells and Additional Sources Detail Report

Well Rep Track No:	
State Well NO:	6855504
Owner Name:	J. R. McDonald
Drilling Start Dt:	
Drilling Month:	1
Drilling Day:	31
Drilling Year:	1966
Well Depth:	720
Well Usage:	Irrigation
Water Level Status:	
Latitude:	29.1683330
Longitude:	-98.1947220
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6855504&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6855504&Cnty=Wilson

Oil and Gas Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	ENE	0.49	2,575.25	461.16	OGW

API:	493	Object ID:	
Uniq ID:	1094804	GIS Lat27:	29.1818588
GIS API5:		GIS Long27:	-98.1677871
GIS Well No:	1	GIS Lat83:	29.18210186
Sym No:	2	GIS Long83:	-98.16807344
GIS Symbol Desc:	Permitted Location	X:	-98.1680734181501
Reliab:	15	Y:	29.18210186582691
GIS Location Source:	Commission`s hardcopy map		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SW	0.56	2,961.17	440.82	OGW

API:	493	Object ID:	
Uniq ID:	1094821	GIS Lat27:	29.167589999999997
GIS API5:		GIS Long27:	-98.1933122
GIS Well No:	1	GIS Lat83:	29.1678335
Sym No:	3	GIS Long83:	-98.19359909
GIS Symbol Desc:	Dry Hole	X:	-98.19359901490672
Reliab:	15	Y:	29.16783351115858
GIS Location Source:	Commission`s hardcopy map		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	NNW	0.87	4,587.28	435.07	OGW

API:	493	Object ID:	
Uniq ID:	1094798	GIS Lat27:	29.1903049
GIS API5:		GIS Long27:	-98.1879923
GIS Well No:	1	GIS Lat83:	29.1905476
Sym No:	3	GIS Long83:	-98.18827914
GIS Symbol Desc:	Dry Hole	X:	-98.18827908680097
Reliab:	15	Y:	29.190547653346297
GIS Location Source:	Commission`s hardcopy map		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	SSW	0.73	3,873.58	441.57	OGW

API:	493	Object ID:	
Uniq ID:	1094835	GIS Lat27:	29.1600362
GIS API5:		GIS Long27:	-98.1868148
GIS Well No:	1	GIS Lat83:	29.16027999
Sym No:	3	GIS Long83:	-98.18710152
GIS Symbol Desc:	Dry Hole	X:	-98.18710147717374
Reliab:	15	Y:	29.160279982956652
GIS Location Source:	Commission`s hardcopy map		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	SSW	0.76	4,018.20	441.20	OGW

API:	493	Object ID:	
Uniq ID:	1094836	GIS Lat27:	29.1597384
GIS API5:		GIS Long27:	-98.1872765
GIS Well No:	1A	GIS Lat83:	29.1599822
Sym No:	3	GIS Long83:	-98.18756323
GIS Symbol Desc:	Dry Hole	X:	-98.18756317520486
Reliab:	15	Y:	29.15998219515624
GIS Location Source:	Commission`s hardcopy map		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	ESE	0.95	5,009.01	420.45	OGW

API:	493	Object ID:	
Uniq ID:	1094812	GIS Lat27:	29.1716895
GIS API5:		GIS Long27:	-98.1619917
GIS Well No:	1	GIS Lat83:	29.17193294
Sym No:	3	GIS Long83:	-98.16227788
GIS Symbol Desc:	Dry Hole	X:	-98.16227783080147
Reliab:	15	Y:	29.17193302820507
GIS Location Source:	Commission`s hardcopy map		

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	E	0.98	5,169.73	451.83	OGW

API:	493	Object ID:	
Uniq ID:	1094808	GIS Lat27:	29.1760659
GIS API5:		GIS Long27:	-98.1593946
GIS Well No:	1	GIS Lat83:	29.17630919
Sym No:	3	GIS Long83:	-98.15968073
GIS Symbol Desc:	Dry Hole	X:	-98.15968067217976
Reliab:	15	Y:	29.176309241382413
GIS Location Source:	Commission`s hardcopy map		

Plotted Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	NNW	0.68	3,590.80	458.05	WATER WELLS

WWD ID:	481652	Deg:	68
Grid No:	68-55-5	Sev Min:	55
TX Grid ID:	63044.0	Two Min:	5
TX Grid:	63409.0	Shape Length:	0.0
Perimeter:	17316.572	Shape Area:	0.00173637770767
County:	BASTROP		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	NNW	0.68	3,590.80	458.05	WATER WELLS

WWD ID:	1033680	Deg:	68
Grid No:	68-55-5	Sev Min:	55
TX Grid ID:	63044.0	Two Min:	5
TX Grid:	63409.0	Shape Length:	0.0
Perimeter:	17316.572	Shape Area:	0.00173637770767
County:	WILSON		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	S	1.72	9,062.65	380.16	WATER WELLS

WWD ID:	1033684	Deg:	68
Grid No:	68-55-8	Sev Min:	55
TX Grid ID:	63380.0	Two Min:	8
TX Grid:	63745.0	Shape Length:	0.0
Perimeter:	17319.764	Shape Area:	0.00173628842867
County:	WILSON		

Wells and Additional Sources Detail Report

Data Source : Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	ENE	1.88	9,921.01	453.56	WATER WELLS

WWD ID:	1033681	Deg:	68
Grid No:	68-55-6	Sev Min:	55
TX Grid ID:	63045.0	Two Min:	6
TX Grid:	63407.0	Shape Length:	0.0
Perimeter:	17315.117	Shape Area:	0.00173606507371
County:	WILSON		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	WNW	2.72	14,366.98	430.72	WATER WELLS

WWD ID:	1033679	Deg:	68
Grid No:	68-55-4	Sev Min:	55
TX Grid ID:	63043.0	Two Min:	4
TX Grid:	63413.0	Shape Length:	0.0
Perimeter:	17315.156	Shape Area:	0.0017360733445
County:	WILSON		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SE	2.82	14,888.41	438.81	WATER WELLS

WWD ID:	1033685	Deg:	68
Grid No:	68-55-9	Sev Min:	55
TX Grid ID:	63381.0	Two Min:	9
TX Grid:	63743.0	Shape Length:	0.0
Perimeter:	17318.43	Shape Area:	0.00173600263992
County:	WILSON		
Data Source :	Water Well Report Viewer, 2.5 Minute Quad Grid (Map); TCEQ Water Well Public AGO		

Submitted Drillers Report Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	W	0.41	2,159.11	421.53	SDR WELLS

License No:	58049	Well Address1:	2034 Bus Loop 181 North
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	159867	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	1

Wells and Additional Sources Detail Report

Apprentice Reg No:	56610	Owner Name:	Emory Jones
No of Wells Drill:		Owner Addr1:	2034 Bus Loop 181 North
Date Submitted:	2008-11-18	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78114
Seal Mthd Oth Desc:	grout	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Phillip D Forney
Drilling Start Dt:	2008-10-20	Driller Address1:	129 US Hwy 181 South
Drilling End Dt:	2008-10-22	Driller Addr2:	
Proposed Use:	Domestic	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	No	Dist to Sep Contam:	
Sealed by Name:	jbd	Dist to Septic Tk:	
Driller Signed:	Phillip Forney	Dist to Prop Line:	
Apprentice Signed:	Lucian Jarzombek	Dist Verifi Method:	
Surface Compl:	Surface Sleeve Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	425
Complt by Driller:		Latitude:	29.176389
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	10
Pump Depth:	140.00	Lat Second:	35
Chemical Analysis:	No	Longitude:	-98.193056
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	11
Known Loc Error:	No	Long Second:	35
Grid No:	68-55-5		
Company Name:	J B Drilling		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=159867&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	WNW	0.59	3,114.85	399.52	SDR WELLS

License No:	2173	Well Address1:	3 Miles N Hwy 181
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	SAME
Well Rpt Track No:	76209	Well Zip:	
Orig Well Rpt Trk No:		Owner Well No:	
Apprentice Reg No:		Owner Name:	DR GEORGE HILL
No of Wells Drill:		Owner Addr1:	P O Box 370

Wells and Additional Sources Detail Report

Date Submitted:	2006-02-13	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78114
Seal Mthd Oth Desc:	Poured in	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Edward J Pawlik
Drilling Start Dt:	2004-05-07	Driller Address1:	P O Box 696
Drilling End Dt:	2004-05-07	Driller Addr2:	
Proposed Use:	Domestic	Driller City:	George West
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78022
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	340
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	Edward Pawlik	Dist to Prop Line:	600
Apprentice Signed:		Dist Verifi Method:	Owner/No Septic
Surface Compl:	Surface Sleeve Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.181944
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	10
Pump Depth:		Lat Second:	55
Chemical Analysis:	No	Longitude:	-98.192222
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	11
Known Loc Error:	No	Long Second:	32
Grid No:	68-55-5		
Company Name:	EDWARD PAWLIK & SON WELL SERVICE		
Well Location Description:			
Comments:	LCS$		
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=76209&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	S	0.42	2,213.41	432.49	SDR WELLS

License No:	2290	Well Address1:	
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	
Well Rpt Track No:	172094	Well Zip:	
Orig Well Rpt Trk No:		Owner Well No:	
Apprentice Reg No:		Owner Name:	JIMMY VAN WINKLE
No of Wells Drill:		Owner Addr1:	911 US HWY 181 N
Date Submitted:	2009-03-24	Owner Addr2:	
Type of Work:	New Well	Owner City:	FLORESVILLE

Wells and Additional Sources Detail Report

Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Other	Owner Zip:	78144
Seal Mthd Oth Desc:	SELF MIXED	Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Steve A Carroll
Drilling Start Dt:	2009-03-18	Driller Address1:	P.O. BOX 223
Drilling End Dt:	2009-03-18	Driller Addr2:	
Proposed Use:	Stock	Driller City:	PETTUS
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78146
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	200
Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	STEVE A. CARROLL	Dist to Prop Line:	300
Apprentice Signed:		Dist Verifi Method:	MEASURED
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	447
Complt by Driller:		Latitude:	29.165001
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	9
Pump Depth:	180.00	Lat Second:	54
Chemical Analysis:	No	Longitude:	-98.181111
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	10
Known Loc Error:	No	Long Second:	52
Grid No:	68-55-8		
Company Name:	M&C WATERWELL DRILLING		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=172094&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SSW	0.45	2,371.03	442.31	SDR WELLS

License No:	59416	Well Address1:	1068 Business Loop 181 N
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	639132	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	1
Apprentice Reg No:		Owner Name:	Sherry Castillo
No of Wells Drill:	1	Owner Addr1:	1068 Business Loop 181 N
Date Submitted:	2023-05-17	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78114

Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Virgil S Mutz Jr
Drilling Start Dt:	2023-05-02	Driller Address1:	129 US Hwy 181 South
Drilling End Dt:	2023-05-08	Driller Addr2:	
Proposed Use:	Domestic	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	Yes	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	100+
Driller Signed:	Virgil S Mutz	Dist to Prop Line:	50+
Apprentice Signed:	Brandon Crider	Dist Verifi Method:	Tape
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	442
Complt by Driller:	Yes	Latitude:	29.16407
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	9
Pump Depth:	180.00	Lat Second:	50.65
Chemical Analysis:	No	Longitude:	-98.184606
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	11
Known Loc Error:	No	Long Second:	4.58
Grid No:	68-55-8		
Company Name:	Moy's Water Well Services		
Well Location Description:			
Comments:	Poured bentonite pellets over gravel		
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=639132&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	SE	0.80	4,205.75	419.51	SDR WELLS

License No:	2570	Well Address1:	1901 Deer Trail
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	291522	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	1
Apprentice Reg No:	58984	Owner Name:	Ann Chandler
No of Wells Drill:		Owner Addr1:	1901 Deer Trail
Date Submitted:	2012-07-04	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78114
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Johnny W Moy

Wells and Additional Sources Detail Report

Drilling Start Dt:	2012-06-07	Driller Address1:	12323 N St Hwy 123
Drilling End Dt:	2012-06-13	Driller Addr2:	
Proposed Use:	Domestic	Driller City:	Falls City
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78113
Apprve by Variance:	Tape	Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	No	Dist to Sep Contam:	
Sealed by Name:	Moys	Dist to Septic Tk:	
Driller Signed:	Johnny W Moy	Dist to Prop Line:	150+
Apprentice Signed:	Louis Hernandez	Dist Verifi Method:	1/4 Mi
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.164167
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	9
Pump Depth:		Lat Second:	51
Chemical Analysis:	No	Longitude:	-98.172222
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	10
Known Loc Error:	No	Long Second:	20
Grid No:	68-55-8		
Company Name:	Thomas Moy and Sons		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=291522&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	W	0.71	3,755.03	412.07	SDR WELLS

License No:	59416	Well Address1:	228 County Road 117
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	551448	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	
Apprentice Reg No:	59709	Owner Name:	Darren & Beverly Baertich
No of Wells Drill:	1	Owner Addr1:	228 County Road 117
Date Submitted:	2020-08-20	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78114
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Virgil S Mutz Jr
Drilling Start Dt:	2020-07-06	Driller Address1:	129 US Hwy 181 South
Drilling End Dt:	2020-07-13	Driller Addr2:	

Wells and Additional Sources Detail Report

Proposed Use:	Stock	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	Yes	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	
Sealed by Name:		Dist to Septic Tk:	200+
Driller Signed:	Virgil S Mutz	Dist to Prop Line:	100+
Apprentice Signed:	Jesse Schield	Dist Verifi Method:	Tape
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	413
Complt by Driller:	Yes	Latitude:	29.176138
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	10
Pump Depth:	220.00	Lat Second:	34.1
Chemical Analysis:	No	Longitude:	-98.198371
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	11
Known Loc Error:	No	Long Second:	54.14
Grid No:	68-55-5		
Company Name:	Moy's Water Well Services		
Well Location Description:			
Comments:	Bentonite poured over gravel sulfur		
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=551448&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	SE	0.83	4,372.51	432.61	SDR WELLS

License No:	4365	Well Address1:	884 Cr. 301
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	524975	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	1
Apprentice Reg No:	59264, 60393	Owner Name:	Wesley and Devin Pawlik
No of Wells Drill:	1	Owner Addr1:	884 Cr. 301
Date Submitted:	2019-10-23	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Hand Mixed	Owner Zip:	78114
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Raymundo V Garcia
Drilling Start Dt:	2019-10-15	Driller Address1:	PO Box 447
Drilling End Dt:	2019-10-21	Driller Addr2:	
Proposed Use:	Stock	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX

Wells and Additional Sources Detail Report

TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	Yes	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	200+
Sealed by Name:		Dist to Septic Tk:	200+
Driller Signed:	Raymundo V Garcia	Dist to Prop Line:	200+
Apprentice Signed:	Tommy Johnson, Morgan L Steenken Jr	Dist Verifi Method:	Tape
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	438
Complt by Driller:	Yes	Latitude:	29.164444
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	9
Pump Depth:	120.00	Lat Second:	52
Chemical Analysis:	No	Longitude:	-98.171111
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	10
Known Loc Error:	No	Long Second:	16
Grid No:	68-55-8		
Company Name:	TJ & TB Drilling Inc		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=524975&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	N	0.72	3,796.67	476.49	SDR WELLS

License No:	58429	Well Address1:	2358 US Hwy 181 North
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Floresville
Well Rpt Track No:	278050	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	
Apprentice Reg No:	58975	Owner Name:	George Hill
No of Wells Drill:		Owner Addr1:	P.O. Box 370
Date Submitted:	2012-02-01	Owner Addr2:	
Type of Work:	New Well	Owner City:	Floresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Pumped	Owner Zip:	78114
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	Lucian E Jarzombek
Drilling Start Dt:	2011-12-28	Driller Address1:	129 US Hwy 181 South
Drilling End Dt:	2012-01-13	Driller Addr2:	
Proposed Use:	Stock	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	

Wells and Additional Sources Detail Report

Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	No	Dist to Sep Contam:	150+
Sealed by Name:	jbd	Dist to Septic Tk:	
Driller Signed:	Lucian Jarzombek	Dist to Prop Line:	
Apprentice Signed:	Virgil Mutz Jr	Dist Verifi Method:	
Surface Compl:	Surface Sleeve Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	456
Complt by Driller:		Latitude:	29.191945
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:	1.5 HP 25 gpm	Lat Minute:	11
Pump Depth:	200.00	Lat Second:	31
Chemical Analysis:	No	Longitude:	-98.180278
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	10
Known Loc Error:	No	Long Second:	49
Grid No:	68-55-5		
Company Name:	J B Drilling		
Well Location Description:			
Comments:	Amended 3/9/12 Ref.# 10211		
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=278050&Type=SDR-Well		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	W	0.93	4,932.30	408.96	SDR WELLS

License No:	54470	Well Address1:	2533 Bussines loop 181 N
PWS No:		Well Addr2:	
Plug Rpt Track No:		Well City:	Foresville
Well Rpt Track No:	358722	Well Zip:	78114
Orig Well Rpt Trk No:		Owner Well No:	1
Apprentice Reg No:	59264	Owner Name:	Ryan Bippert
No of Wells Drill:		Owner Addr1:	2533 Bussines loop 181 N
Date Submitted:	2014-04-06	Owner Addr2:	
Type of Work:	New Well	Owner City:	Foresville
Typ of Wrk Oth Descr:		Owner State:	TX
Seal Method:	Gravity	Owner Zip:	78114
Seal Mthd Oth Desc:		Owner Country:	
Plugged w/i 48Hrs:	No	Driller Name:	John D Wilkins
Drilling Start Dt:	2014-04-01	Driller Address1:	344 CR 305
Drilling End Dt:	2014-04-04	Driller Addr2:	
Proposed Use:	Domestic	Driller City:	Floresville
Prop Use Oth Descr:		Driller State:	TX
TCEQ Approve Plans:		Driller Zip:	78114
Apprve by Variance:		Driller Oth Cntry:	
Loc Vfy by Driller:	No	Driller Country:	
Sealed by Driller:	Yes	Dist to Sep Contam:	200+

Wells and Additional Sources Detail Report

Sealed by Name:		Dist to Septic Tk:	
Driller Signed:	John Wilkins	Dist to Prop Line:	200+
Apprentice Signed:	Thomas N Johnson	Dist Verifi Method:	tape
Surface Compl:	Surface Slab Installed	Horizon Datum Type:	
Surf Comp Oth Desc:		Elevation:	
Complt by Driller:		Latitude:	29.177778
Pump Type:	Submersible	Lat Degree:	29
Pump Type Oth Desc:		Lat Minute:	10
Pump Depth:	200.00	Lat Second:	40
Chemical Analysis:	No	Longitude:	-98.201667
Injurious Water:	No	Long Degree:	98
County:	Wilson	Long Minute:	12
Known Loc Error:	No	Long Second:	6
Grid No:	68-55-5		
Company Name:	Tj&Tb Drilling		
Well Location Description:			
Comments:			
Data Source:	Full SDR Database; SDRDB Well Location (Map)		
Drillers Well Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=358722&Type=SDR-Well		

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *WILSON* County: **3**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *WILSON* County

No Measures/Homes:	6
Geometric Mean:	0.3
Arithmetic Mean:	0.2
Median:	0.1
Maximum:	1
% >4 pCi/L:	0
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the State/EPA Residential Radon Survey of Texas conducted during 1990-91. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

Wells from NWIS — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This select NWIS Wells dataset contains specific Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Applicable NWIS database information is obtained

through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

State Sources

Fort Bend Subsidence District Water Wells — **WW FORT BEND**

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes.

Groundwater Database — **GWDB**

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality.

Harris Galveston Subsidence District Water Wells — **WW HARRIS GAL**

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

High Plains Water Wells — **WW HIGH PLAINS**

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area.

Oil and Gas Wells — **OGW**

Oil and Gas Well Data made available by the Railroad Commission of Texas.

Pipelines — **PIPELINE**

Locations of interstate and intrastate gas and liquids pipelines, made available by the Railroad Commission of Texas (RRC). Data is derived from RRC T-4 Permit applications ("Application for Permit to Operate a Pipeline in Texas"), which facilitate regulatory functions of the Pipeline Safety Section of the RRC. The digital data used to create the files was taken from the forms system within the RRC, from the General Land Office (GLO) county survey maps, and, United States Geological Survey (USGS) quadrangle maps.

Plotted Water Wells — **WATER WELLS**

A list of water wells in Texas that are plotted in Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer. The database provides the best representation of water well driller's reports available to the TCEQ as of the date of records collected. Note: records are plotted using the Texas Land Survey Grid System, identifying the 2.5 minute grid where wells are located but do not contain the offset necessary to pinpoint a specific location. Therefore, plotted locations are accurate to a resolution of 2.5 minute (2-3 miles).

Plugged Water Wells — **PLUGGED WELLS**

A list of plugged water wells from the Submitted Drillers Report (SDR) Database. This list is maintained by the Texas Water Development Board (TWDB).

Public Water Systems Wells and Surface Intakes — **PWSW**

Public Water Supply Water Well Sites and Public Water Supply Surface Water Intake Sites in the State of Texas made available by the Texas Commission on Environmental Quality (TCEQ). The locations for these layers were obtained by the Water Supply Division as recorded from various sources, and the data provider indicates that some locational errors have been identified. As resources allow, TCEQ intends to improve the accuracy of these locations to meet the standards set forth in the agency's Positional Data Policy.

Select Wells from SDR — **SDRW WELLS**

Locations of wells from the Submitted Drillers Report (SDR) Database with select proposed usage:

Domestic, Fracking Supply, Industrial, Irrigation, Other, Public Supply, Rig Supply, Stock, Unknown. SDR is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS), a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well.

Submitted Drillers Report Database **SDR WELLS**

The Submitted Drillers Report (SDR) Database is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS) which is a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application that registered water-well drillers use to submit their required reports.

Surveys **SURVEY**

Survey boundaries made available by the Railroad Commission of Texas (RRC). A survey is a certified measured description of a piece of land. In Texas, original surveys were performed as part of the patenting process whereby land was transferred from the public domain. These "patent surveys", recorded at the Texas General Land Office (GLO), constitute an official land grid for the State and are the basis for subsequent land surveys. The digital data used to create surveys were taken from the forms system within the RRC, from the General Land Office (GLO) county survey maps, and United States Geological Survey (USGS) quadrangle maps.

Underground Injection Control **UIC**

List of underground injection control (UIC) permits in the Texas Commission on Environmental Quality (TCEQ) Central Registry database. Includes Class I, Class III, Class IV, Class 5, and non permitted UICs; does not include injection wells regulated by the Railroad Commission of Texas.

Water Utility Database **WUD**

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Well Log Reports from Plotted Water Wells **TCEQ WELL LOGS**

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been manually verified.

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Tank Removal Documentation

Tank Destroyal Certificate

CERTIFICATE OF DESTRUCTION

I, Oscar Garcia ,do hereby certify that the below listed equipment has been destroyed from, or rendered such that it is not useful in any meaningful way, from 1508 Hwy 181 N, Floresville, TX 78114.

Equipment Description	Serial Number
2-UST 150in x 45in Tanks	

Signed:

Signature: _____

Print Name: Oscar Garcia

Title: Licensed UST Supervisor

Email: go_173@yahoo.com

Phone Number: 210-947-3737

Date: June 11, 2022

Oscar Garcia

INVOICE

P.O. Box 925
Hondo, Texas 78861
210-947-3737
go_173@yahoo.com

INVOICE # 103
DATE June 11, 2022

TO
Attn: Phil Bakke
Bakke Development Corporation
207 Roosevelt Ave
San Antonio, Texas 78210
210-387-0263 | pbakke@bakkedc.com

FOR
Jalou Ranch
1508 US Hwy 181 N
Floresville, TX 78114

Description	Amount
Excavated, removed, and haul off 2 UST 1,000-gallon tanks	2,000.00

Total **2,000.00**

Make all checks payable to Oscar Garcia
Payment is due day of service.
If you have any questions concerning this invoice, please contact Oscar Garcia | 210-947-3737 | go_173@yahoo.com

THANK YOU FOR YOUR BUSINESS!

SAN ANTONIO TESTING LABORATORY

June 22, 2022

Phil Bakke
Flobak Ltd
207 Roosevelt Ave
San Antonio, TX 78210

SATL Report No.: 2206177
RE: Jalou Ranch

Dear Phil Bakke

SATL received 3 Sample(s) on 06/13/2022 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Richard Hawk,
General Manager

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

SAMPLE SUMMARY

Total Samples received in this work order: **3**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
Stockpile	2206177-01	Solid	Composite	06/13/22 07:00	06/13/22 11:40
Gas Tank Bottom	2206177-02	Solid	Grab	06/13/22 07:00	06/13/22 11:40
Diseal Tank Bottom	2206177-03	Solid	Grab	06/13/22 07:00	06/13/22 11:40

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Sample ID #: Stockpile **Sampling Method: Composite** **Lab Sample ID #: 2206177-01**

Sample Matrix: Solid **Date/Time Collected: 06/13/22 07:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									**B**
Benzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 17:56	EPA 8260C	SA	
Toluene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 17:56	EPA 8260C	SA	
Ethylbenzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 17:56	EPA 8260C	SA	
Xylenes, Total *	<0.075	mg/kg	0.075	EPA 5035	B225160	06/14/22 17:56	EPA 8260C	SA	
Surrogate: Toluene-d8		*100 %*	*72-120*	*EPA 5035*	*B225160*	*06/14/22 17:56*	*EPA 8260C*	*SA*	
Surrogate: 4-Bromofluorobenzene		*96 %*	*54.9-139*	*EPA 5035*	*B225160*	*06/14/22 17:56*	*EPA 8260C*	*SA*	
Surrogate: Dibromofluoromethane		*99 %*	*24-169*	*EPA 5035*	*B225160*	*06/14/22 17:56*	*EPA 8260C*	*SA*	
Total Petroleum Hydrocarbons by GC/FID									**B**
C6-C12 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:32	TX-1005	SA	
>C12-C28 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:32	TX-1005	SA	
>C28-C35 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:32	TX-1005	SA	
Total C6-C35 Hydrocarbons *	<150.0	mg/kg	150.0	TX-1005S	B225161	06/14/22 19:32	TX-1005	SA	
Surrogate: 1-Chlorooctane		*71 %*	*41-130*	*TX-1005S*	*B225161*	*06/14/22 19:32*	*TX-1005*	*SA*	
Surrogate: 1-Chlorooctadecane		*90 %*	*36-133*	*TX-1005S*	*B225161*	*06/14/22 19:32*	*TX-1005*	*SA*	

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Sample ID #: Gas Tank Bottom **Sampling Method: Grab** **Lab Sample ID #: 2206177-02**

Sample Matrix: Solid **Date/Time Collected: 06/13/22 07:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									B
Benzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:24	EPA 8260C	SA	
Toluene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:24	EPA 8260C	SA	
Ethylbenzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:24	EPA 8260C	SA	
Xylenes, Total *	<0.075	mg/kg	0.075	EPA 5035	B225160	06/14/22 18:24	EPA 8260C	SA	
Surrogate: Toluene-d8	*101 %*	*72-120*		*EPA 5035*	*B225160*	*06/14/22 18:24*	*EPA 8260C*	*SA*	
Surrogate: 4-Bromofluorobenzene	*96 %*	*54.9-139*		*EPA 5035*	*B225160*	*06/14/22 18:24*	*EPA 8260C*	*SA*	
Surrogate: Dibromofluoromethane	*98 %*	*24-169*		*EPA 5035*	*B225160*	*06/14/22 18:24*	*EPA 8260C*	*SA*	
Total Petroleum Hydrocarbons by GC/FID									B
C6-C12 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:51	TX-1005	SA	
>C12-C28 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:51	TX-1005	SA	
>C28-C35 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 19:51	TX-1005	SA	
Total C6-C35 Hydrocarbons *	<150.0	mg/kg	150.0	TX-1005S	B225161	06/14/22 19:51	TX-1005	SA	
Surrogate: 1-Chlorooctane	*87 %*	*41-130*		*TX-1005S*	*B225161*	*06/14/22 19:51*	*TX-1005*	*SA*	
Surrogate: 1-Chlorooctadecane	*98 %*	*36-133*		*TX-1005S*	*B225161*	*06/14/22 19:51*	*TX-1005*	*SA*	

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Sample ID #: Diseal Tank Bottom **Sampling Method: Grab** **Lab Sample ID #: 2206177-03**

Sample Matrix: Solid **Date/Time Collected: 06/13/22 07:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									**B**
Benzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:53	EPA 8260C	SA	
Toluene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:53	EPA 8260C	SA	
Ethylbenzene *	<0.025	mg/kg	0.025	EPA 5035	B225160	06/14/22 18:53	EPA 8260C	SA	
Xylenes, Total *	<0.075	mg/kg	0.075	EPA 5035	B225160	06/14/22 18:53	EPA 8260C	SA	
Surrogate: Toluene-d8		*100 %*	*72-120*	*EPA 5035*	*B225160*	*06/14/22 18:53*	*EPA 8260C*	*SA*	
Surrogate: 4-Bromofluorobenzene		*96 %*	*54.9-139*	*EPA 5035*	*B225160*	*06/14/22 18:53*	*EPA 8260C*	*SA*	
Surrogate: Dibromofluoromethane		*101 %*	*24-169*	*EPA 5035*	*B225160*	*06/14/22 18:53*	*EPA 8260C*	*SA*	
Total Petroleum Hydrocarbons by GC/FID									**B**
C6-C12 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 20:09	TX-1005	SA	
>C12-C28 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 20:09	TX-1005	SA	
>C28-C35 Hydrocarbons *	<50.00	mg/kg	50.00	TX-1005S	B225161	06/14/22 20:09	TX-1005	SA	
Total C6-C35 Hydrocarbons *	<150.0	mg/kg	150.0	TX-1005S	B225161	06/14/22 20:09	TX-1005	SA	
Surrogate: 1-Chlorooctane		*75 %*	*41-130*	*TX-1005S*	*B225161*	*06/14/22 20:09*	*TX-1005*	*SA*	
Surrogate: 1-Chlorooctadecane		*102 %*	*36-133*	*TX-1005S*	*B225161*	*06/14/22 20:09*	*TX-1005*	*SA*	

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B225160 - EPA 5035										
Blank (B225160-BLK1)				Prepared: 06/14/22 12:47 Analyzed: 06/14/22 14:28						
Benzene	<0.025	0.025	mg/kg							
Toluene	<0.025	0.025	mg/kg							
Ethylbenzene	<0.025	0.025	mg/kg							
Xylenes, Total	<0.075	0.075	mg/kg							
Surrogate: Toluene-d8	*0.247*		*mg/kg*	*0.250*		*99*	*72-120*			
Surrogate: 4-Bromofluorobenzene	*0.244*		*mg/kg*	*0.250*		*97*	*54.9-139*			
Surrogate: Dibromofluoromethane	*0.243*		*mg/kg*	*0.250*		*97*	*24-169*			
LCS (B225160-BS1)				Prepared: 06/14/22 12:47 Analyzed: 06/14/22 13:31						
Benzene	0.274	0.025	mg/kg	0.250		110	66.9-137			
Toluene	0.298	0.025	mg/kg	0.250		119	79.8-127			
Ethylbenzene	0.305	0.025	mg/kg	0.250		122	84.3-126			
Xylenes, Total	0.951	0.075	mg/kg	0.750		127	85.9-125			L
Surrogate: Toluene-d8	*0.249*		*mg/kg*	*0.250*		*100*	*72-120*			
Surrogate: 4-Bromofluorobenzene	*0.241*		*mg/kg*	*0.250*		*97*	*54.9-139*			
Surrogate: Dibromofluoromethane	*0.250*		*mg/kg*	*0.250*		*100*	*24-169*			
LCS Dup (B225160-BSD1)				Prepared: 06/14/22 12:47 Analyzed: 06/14/22 13:59						
Benzene	0.229	0.025	mg/kg	0.250		92	66.9-137	18	14.8	S
Toluene	0.251	0.025	mg/kg	0.250		101	79.8-127	17	23.6	
Ethylbenzene	0.254	0.025	mg/kg	0.250		102	84.3-126	18	14.2	S
Xylenes, Total	0.796	0.075	mg/kg	0.750		106	85.9-125	18	19.6	
Surrogate: Toluene-d8	*0.251*		*mg/kg*	*0.250*		*100*	*72-120*			
Surrogate: 4-Bromofluorobenzene	*0.243*		*mg/kg*	*0.250*		*97*	*54.9-139*			
Surrogate: Dibromofluoromethane	*0.249*		*mg/kg*	*0.250*		*100*	*24-169*			
Matrix Spike (B225160-MS1)		**Source: 2206177-03**		Prepared: 06/14/22 12:47 Analyzed: 06/14/22 19:21						
Benzene	0.282	0.025	mg/kg	0.250	<0.025	113	64.5-137			
Toluene	0.292	0.025	mg/kg	0.250	<0.025	117	52.8-151			
Ethylbenzene	0.296	0.025	mg/kg	0.250	<0.025	118	51.9-167			
Xylenes, Total	0.906	0.075	mg/kg	0.750	<0.075	121	63.3-151			
Surrogate: Toluene-d8	*0.251*		*mg/kg*	*0.250*		*101*	*72-120*			
Surrogate: 4-Bromofluorobenzene	*0.243*		*mg/kg*	*0.250*		*97*	*54.9-139*			
Surrogate: Dibromofluoromethane	*0.257*		*mg/kg*	*0.250*		*103*	*24-169*			
Matrix Spike Dup (B225160-MSD1)		**Source: 2206177-03**		Prepared: 06/14/22 12:47 Analyzed: 06/14/22 19:49						

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B225160 - EPA 5035										
Matrix Spike Dup (B225160-MSD1)		**Source: 2206177-03**		Prepared: 06/14/22 12:47		Analyzed: 06/14/22 19:49				
Benzene	0.269	0.025	mg/kg	0.245	<0.025	110	64.5-137	3	17.3	
Toluene	0.280	0.025	mg/kg	0.245	<0.025	114	52.8-151	2	22.5	
Ethylbenzene	0.284	0.025	mg/kg	0.245	<0.025	116	51.9-167	2	38.3	
Xylenes, Total	0.867	0.075	mg/kg	0.735	<0.075	118	63.3-151	2	28.5	
Surrogate: Toluene-d8	*0.247*		*mg/kg*	*0.245*		*101*	*72-120*			
Surrogate: 4-Bromofluorobenzene	*0.240*		*mg/kg*	*0.245*		*98*	*54.9-139*			
Surrogate: Dibromofluoromethane	*0.251*		*mg/kg*	*0.245*		*102*	*24-169*			

Total Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B225161 - TX-1005S										
Blank (B225161-BLK1)				Prepared: 06/14/22 12:51		Analyzed: 06/14/22 13:58				
Total C6-C35 Hydrocarbons	<150.0	150.0	mg/kg							
Surrogate: 1-Chlorooctane	*32.6*		*mg/kg*	*50.0*		*65*	*41-130*			
Surrogate: 1-Chlorooctadecane	*45.5*		*mg/kg*	*50.0*		*91*	*36-133*			
LCS (B225161-BS1)				Prepared: 06/14/22 12:51		Analyzed: 06/14/22 14:54				
Total C6-C35 Hydrocarbons	887	150.0	mg/kg	1000		89	75-125			
Surrogate: 1-Chlorooctane	*45.1*		*mg/kg*	*50.0*		*90*	*41-130*			
Surrogate: 1-Chlorooctadecane	*65.2*		*mg/kg*	*50.0*		*130*	*36-133*			
LCS Dup (B225161-BSD1)				Prepared: 06/14/22 12:51		Analyzed: 06/14/22 15:12				
Total C6-C35 Hydrocarbons	922	150.0	mg/kg	1000		92	75-125	4	20	
Surrogate: 1-Chlorooctane	*47.7*		*mg/kg*	*50.0*		*95*	*41-130*			
Surrogate: 1-Chlorooctadecane	*69.2*		*mg/kg*	*50.0*		*138*	*36-133*			*SurrH*
Matrix Spike (B225161-MS1)		**Source: 2206177-01**		Prepared: 06/14/22 12:51		Analyzed: 06/14/22 20:28				
Total C6-C35 Hydrocarbons	938	150.0	mg/kg	1000	<150.0	94	75-125			
Surrogate: 1-Chlorooctane	*36.2*		*mg/kg*	*50.0*		*72*	*41-130*			
Surrogate: 1-Chlorooctadecane	*51.1*		*mg/kg*	*50.0*		*102*	*36-133*			
Matrix Spike Dup (B225161-MSD1)		**Source: 2206177-01**		Prepared: 06/14/22 12:51		Analyzed: 06/14/22 20:46				

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch
Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Total Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B225161 - TX-1005S									
Matrix Spike Dup (B225161-MSD1)		**Source: 2206177-01**		Prepared: 06/14/22 12:51		Analyzed: 06/14/22 20:46			
Total C6-C35 Hydrocarbons	787	150.0	mg/kg	1000	<150.0	79	75-125	17	20
Surrogate: 1-Chlorooctane	*31.5*		*mg/kg*	*50.0*		*63*	*41-130*		
Surrogate: 1-Chlorooctadecane	*47.0*		*mg/kg*	*50.0*		*94*	*36-133*		

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Flobak Ltd
207 Roosevelt Ave
San Antonio TX, 78210

Additional Notes:

Project Manager: Phil Bakke
Project: Jalou Ranch

Project Number: [none]

Reported:
06/22/22 13:01
Received:
06/13/22 11:40

Report No. 2206177

Aimee Landon For Sairam Abburu, Lab Director For

Richard Hawk, General Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: Flobak Ltd	COMPANY: SAME as payment	REPORT NUMBER: 220677
ADDRESS: 207 Roosevelt Ave	ADDRESS:	
CITY: San Antonio STATE: TX ZIP: 78210	CITY: STATE: ZIP:	E-MAIL: pbakke@bakkedc.com
ATTN: PHIL Bakke PHONE #: 210-821-6300	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: JALOU Ranch

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____ °C; LCS/D:_____|_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS ☒ YES ☐ NO
INSUFFICIENT SAMPLE AMOUNT FOR (TCLP/SPLP/OTHER): IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____ ☐ YES ☒ NO AUTHORIZE TO PROCEED____

SAMPLED BY: PHIL BAKKE

OBSERVED TEMP. 5.4°C / CORRECTED TEMP. 4.4°C / TEMP. I.R. GUN #7 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ LPST PCLS ☐ LOW LEVEL ☐ PST ☐ SIM ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED: DATE	COLLECTED: TIME	MATRIX: DRINKING WATER	MATRIX: NON-POTABLE WATER	MATRIX: PAINT CHIPS	MATRIX: OIL	MATRIX: ORGANIC LIQUID	MATRIX: SOLID/SLUDGE	MATRIX: WIPE	MATRIX: OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	(BTEX MTBE 8260 / TPH TX1005 / TX1006)	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625 / TCLP / SPLP / Total	VOC / 8260 / 624 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	PCB / 608 / 8082A	OC Pest / 608 / 8081A / TCLP / SPLP / Total	PRESERVED WITH: ICE	HCl	HNO3	H2SO4	NaOH	ZnAc2NaOH	HNO3	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	REMARKS
1	6/13/22	7am						X				X			Stockpile	1	1602	1602	✓																				
2	"	"						X				X			Gas tank bottom	1	"	"	✓																				
3	"	"						X				X			Diesel tank bottom	1	"	"	✓																				

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
	6/13/22 11:40am		JUN 13 2022				
RELINQUISHED BY (PRINT NAME) PHIL P. Bakke	DATE / TIME	RECEIVED BY (PRINT NAME) Aimee Landon	DATE / TIME 1140	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT Hand		SUBCONTRACTED ☐ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☒ (Initial) ___ 5035 ☐ N/A ☐		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

FORM: COC REV 04/2022 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY, INC.

Sample Receipt Checklist

Client: Flobak Ltd Report Number: 220677

Project Name: Date Received: 6/13/22

Shipped via: ☐FedEx ☐UPS ☐Lonestar ☑Hand Delivered ☐DHL ☐SATL ☐Other Date Due: 6/22/22

Rush: ☐ Specify: ☐3-5 ☐2 ☐1

Items to be checked upon Receipt: [Yes, No, N/A]

1. Custody Seals present?	Yes		No		NA	✓	If NA–reason:		
2. Custody Seals intact?	Yes		No		NA		If NA–reason:	✓	
3. Air Bill included in folder, if received?	Yes		No		NA		If NA–reason:	✓	
4. Is COC included with samples?	Yes	✓	No		NA		If NA–reason:		
5. Is COC signed and dated by client?	Yes	✓	No		NA		If NA–reason:		
6. Sample temperature: Thermal preservation between >0° - 6°C? (Samples that are delivered to the laboratory on the same day that they are collected may not meet this criterion, but are acceptable if they arrive on ice.)	Yes	✓	No		NA		Temp: 4.4 °C		
7. Samples received with ice ☒ ice packs ☐ other cooling ☐	Yes	✓	No		NA		If NA–reason:		
8. Is the COC filled out correctly, and completely?	Yes	✓	No		NA		If NA–reason:		
9. Information on the COC matches the samples?	Yes	✓	No		NA		If NA–reason:		
10. Samples received within holding time?	Yes	✓	No		NA		If NA–reason:		
11. Samples properly labeled?	Yes	✓	No		NA		If NA–reason:		
12. Samples submitted with chemical preservation? (e.g. pH adjusted, or sodium thiosulfate added for microbiological tests)	Yes		No		NA	✓	If NA–reason:	SO4	
13. Proper sample containers used?	Yes	✓	No		NA		If NA–reason:		
14. All samples received intact, containers not damaged or leaking?	Yes	✓	No		NA		If NA–reason:		
15. VOA vials (requesting BTEX/VOC analysis) received with no air bubbles? Bubbles acceptable on VOA vials for TPH.	Yes		No		NA	✓	If NA–reason:	Bulk	
16. Preservative for THMs only ($Na_2S_2O_3$)	Yes		No		NA	✓	If NA–reason:	no THMs	
17. Sample volume sufficient for requested analysis?	Yes	✓	No		NA		If NA–reason:		
18. Sample amount sufficient for TCLP analysis?	Yes	✓	No		N/A	✓	If NA- reason		
19. Subcontracted Samples: [if Yes, complete the next section]	Yes		No	✓	NA		If NA–reason:		

Analyses Subcontracted Out: _____ No. of Samples _____

Samples sent to: _____ Sent By: _____

Date samples sent: _____ Samples shipped via: _____

TAT Requested: _____

Tracking number [if any]: _____

Comments:

Received By: AG Date: 6/13/22

Labeled By: _____ Date: _____

Logged into LIMS By: _____ Date: _____

Logged into RF By: _____ Date: _____

APPENDIX F
Site Photographs

AERIAL IMAGERY PROVIDED BY GOOGLE © UNLESS OTHERWISE NOTED. Imagery ©2023, CAPCOG,Digital Globe,Texas OrthoImagery Program, USDA Farm Service Agency.

Date: Nov 06, 2023 9:37:20 AM User: Dmoser
File: P:\12739\03\ENVIESA\PH I\Photos\APP_F_Photo Location Map.mxd

JOB NO.	12739-03
DATE	Nov 2023
DESIGNER	HS
CHECKED	HDJ
DRAWN	HS
SHEET	Appendix F

JALOU TRACT

PHOTOGRAPH LOCATION MAP
2023 AERIAL PHOTOGRAPH

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800
TBPG FIRM REGISTRATION #50351

Photo No. 1	**Date:** 10/25/2023
Description: View of subject property from west corner.	

Photo No. 2	**Date:** 10/25/2023
Description: View of subject property from north corner.	

Photo No. 3	**Date:** 10/25/2023

Description:
View of subject property from northeast side.

Photo No. 4	**Date:** 10/25/2023

Description:
View of subject property from northwest side.

Photo No. 5	**Date:** 10/25/2023

Description:
View of subject property from east corner.

Photo No. 6	**Date:** 10/25/2023

Description:
View of pipeline easement.

Photo No. 7	**Date:** 10/25/2023

Description:
View of water trough at central portion of subject property.

Photo No. 8	**Date:** 10/25/2023

Description:
View of electrical easement.

Photo No. 9	**Date:** 10/25/2023
Description: View of pole mounted transformer.	

Photo No. 10	**Date:** 10/25/2023
Description: View of subject property from south corner.	

Photo No. 11	**Date:** 10/25/2023
Description: View of water well and water tank.	

Photo No. 12	**Date:** 10/25/2023
Description: View of residential structure.	

Photo No. 13	**Date:** 10/25/2023

Description:
View of dog kennels.

Photo No. 14	**Date:** 10/25/2023

Description:
View of residential structure.

Photo No. 15	**Date:** 10/25/2023

Description:
View of residential structure.

Photo No. 16	**Date:** 10/25/2023

Description:
View of interior of warehouse.

Photo No. 17	**Date:** 10/25/2023
Description: View of interior of warehouse.	

Photo No. 18	**Date:** 10/25/2023
Description: View of pole mounted transformer.	

Photo No. 19	**Date**: 10/25/2023
Description: View of warehouse.	

APPENDIX G
Record of Communication & User Questionnaire

CONVERSATION RECORD

1.	SAN ANTONIO RIVER AUTHORITY	Ronnie@sariverauthority.org/Ronnie Hernandez

Date: 10/30/2023 Time: 3:30 PM

Pape-Dawson contacted the San Antonio River Authority (SARA) to ascertain information regarding surface water within the vicinity of the subject property. Mr. Ronnie Hernandez with SARA stated that there are no records in SARA's databases for the subject property.

2.	EVERGREEN UNDERGROUND WATER CONSERVATION DISTRICT	landon.yosko@evergreenuwcd.org/Landon Yosko

Date: 10/30/2023 Time: 11:02 AM

Pape-Dawson contacted the Evergreen Underground Water Conservation District (Evergreen UWCD) to see if there are any known environmental concerns regarding the aquifer or groundwater in the area of the subject property. According to Mr. Landon Yosko, Evergreen UWCD does not know of any environmental concerns in this area.

X3. USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*[187] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *"Brownfields Amendments"*), [188] the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that *"all appropriate inquiries"* is not complete.

(1.) Environmental liens that are filed or recorded against *property* (40 CFR 312.25).
Did a search of *recorded land title records* (or judicial records where appropriate, see NOTE 1 below) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law? Unknown

NOTE 1 – In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

(2.) Activity and land use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi).
Did a search of *recorded land title records* (or judicial records where appropriate, see NOTE 1 above) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, or local law? Unknown

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? Unknown

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).
(a.) Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? Yes If no answer part (b.)
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? _____

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).
Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,
(a.) Do you know the past uses of the *property*? Unknown
(b.) Do you know of specific chemicals that are present or once were present at the *property*? Unknown
(c.) Do you know of spills or other chemical releases that have taken place at the *property*? Unknown
(d.) Do you know of any environmental cleanups that have taken place at the *property*? Unknown

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*? No

Signature: DocuSigned by: Rod Tovar EE837A1B34CA446... Date: 10/26/2023

Subject Property: **JALOU TRACT**

APPENDIX H
Published References

Published References

1. Barnes, V.L., 1983, Geologic Atlas of Texas, San Antonio Sheet, Bureau of Economic Geology, The University of Texas at Austin, Texas.
2. Federal Emergency Management Agency (FEMA), November 26, 2010, Wilson County, Texas and Incorporated Areas, Flood Insurance Rate Map (FIRM), Panel 48493C0295C, FEMA, Washington, D.C.
3. Railroad Commission of Texas, Public GIS Map Viewer, http://gis.rrc.texas.gov/GISViewer/
4. Texas Commission on Environmental Quality, Central Registry Query, http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch
5. Texas Water Development Board, Wells in TWDB Groundwater Database Viewer, http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer, 11/7/2023.
6. United States Department of Agriculture, 1991, Soil Survey – Wilson County, Texas, USDA.
7. United States Geologic Survey, 2019, (USGS), Floresville Quadrangle, USGS, Denver, Colorado.

APPENDIX I
Qualifications & Experience

Resume

William Wood, P.E.

Position: Executive Vice President | Pape-Dawson Engineers, Inc.

Years with Firm: 29

Education: B.S. in Agricultural Engineering, Texas A&M University, 1983

Registrations: Professional Engineer, Texas No. 65364, 1988

Experience: Mr. Wood has been in the engineering field for more than 30 years. His current responsibilities include management of the firm, allocation of resources, strategic planning, operations, oversight of information technology, environmental services, and direct involvement with more than 60 employees across several design teams working on hundreds of projects at any given time. Mr. Wood's specific engineering experience includes design and construction administration of land development projects, capital improvement projects, golf courses, restoration of mined lands, water resources projects, hydrologic analyses, brownfields redevelopment, disposal of cement kiln dust, mine planning, and municipal landfill projects. Mr. Wood also has recent experience in Cedar Park with Lime Creek Quarry. In 2017, Mr. Wood was inducted into the Academy of Distinguished Graduates of Texas A&M University's Biological and Agricultural Engineering Department.

Project Experience:

Longhorn Cement Quarry, *San Antonio, TX*
Mr. Wood was principal-in-charge responsible for design and construction administration of this non-hazardous industrial solid waste landfill. He oversaw relocation and closure of 1.4 million cubic yards of cement kiln dust in the Longhorn Cement Quarry. Mr. Wood performed an extensive waste characterization and risk assessment as part of the closure plan and design of the new waste management facility. As redevelopment of the Longhorn Quarry continues to evolve, Mr. Wood remains principal-in-charge of several projects within the quarry such as Morgan's Wonderland, NEISD's Heroes Stadium, South Texas Regional Soccer Complex, Upton Apartment project, and several environmental assessments, including Valero, Starbucks, and other sites within the quarry.

Alamo Cement Company Plant Closure Plan, *San Antonio, TX*
Mr. Wood led a permitting and design team to close a non-hazardous industrial solid waste landfill containing 500,000 cubic yards of wet cement kiln dust, 300,000 cubic yards of various waste and 29 million gallons of leachate. With a team of hydrogeologists, wastewater treatment engineers, and civil engineers, Mr. Wood developed an in-place closure plan approved by the Texas Commission on Environmental Quality (TCEQ) including 14 recovery wells to dewater the landfill and eight monitoring wells to detect movement of the leachate from the landfill. He analyzed liquids removed from the landfill and obtained permission by the TCEQ to allow use of the liquids in place of potable water for process use at the cement plant. He prepared plans for modifications required at the plant to use the leachate in its

process. Mr. Wood also successfully completed one of the first voluntary cleanup programs in the state for redevelopment of the old cement plant.

San Antonio River Authority - DFIRM Project, *San Antonio, TX*
Responsible for organizing a team of individuals from multiple design firms and reviewing the project scope to adhere to the client's direction for the project. Mr. Wood also reviewed the work effort on a regular basis to maintain quality, meet performance expectations and schedule.

The Quarry at Lincoln Heights, *San Antonio, TX*
Project Manager for the planning, design, and construction administration of utilities, streets, and drainage system for this 460-acre tract brownfield redevelopment. (The area was the site of a former limestone quarry and required extensive environmental investigation prior to development.) Successfully created several high-end residential housing units, an innovative shopping center, multi-family residential center, church facility, and a golf course.

Pearl Brewery Solar Array at Full Goods Warehouse, *San Antonio, TX*
Principal-in-charge responsible for providing the civil site design for the Full Goods warehouse located within the historic 18-acre Pearl Brewery site located in midtown San Antonio. The warehouse is home to a $1.35 million solar energy project. The project includes over 750 solar panels with the capacity to generate 200 kW of electricity. Because energy demand for the building is approximately 154 kW, additional power created by the panels is fed to the public electric grid. This project received Gold-level LEED® certification.

East Sonterra Multi-Family Development, *San Antonio, TX*
Mr. Wood was the principal-in-charge of civil site design and environmental permitting for this multi-family development. He prepared a Preliminary Engineering Report to assess site access, utility availability, drainage issues, environmental requirements and the status of zoning and platting. The services also included topographic, improvement and tree surveys; a Phase I Environmental Site Assessment; a water and sanitary sewer layout; a Storm Water Pollution Prevention Plan; grading and drainage plans; a fire protection site plan; a Water Pollution Abatement Plan; and construction phase services. Because the site was located over the Edwards Aquifer Recharge Zone, we conducted an endangered species assessment for Golden-Cheeked Warbler habitat and a karst feature evaluation involving a geologic assessment to meet Texas Commission on Environmental Quality requirements.

PAPE-DAWSON ENGINEERS

Resume

Heather Johnson

Position: Senior Environmental Manager, Pape-Dawson Engineers, Inc.

Years with Firm: 5

Education: B.S. in Geology, Texas A&M University, 1997

M.S. in Geology, The University of Texas at San Antonio, 2004

Registrations: OSHA HAZWOPER, No. 20171217-01, 2017

TxDOT Precert: 2.13.1 Hazardous Materials Initial Site Assessment

Experience: Ms. Johnson has 24 years of experience as an environmental scientist/geologist and is highly proficient at preparing cost proposals, affected soils and water management plans, and regulatory reports for various Texas Commission on Environmental Quality (TCEQ) programs. She excels in regulatory issues; waste profiling; and in communicating with regulatory agencies, such as TCEQ, the Edwards Aquifer Authority, and the Texas Risk Reduction Program. Her responsibilities include performance and review of Phase I environmental site assessments (ESA) and the preparation of regulatory reports, such as spill prevention, control, and countermeasure plans, and stormwater pollution prevention plans.

Geneva School of Boerne – Phase I and II ESA, *Kendall County, TX*
Ms. Johnson has served as environmental manager for Phase II ESAs throughout Texas to determine the presence or absence of petroleum products or hazardous waste in soil and/or groundwater. She is responsible for managing field activities, interpreting analytical results, and reviewing Phase II reports. In the last four years, Ms. Johnson has managed at least 25 Phase II ESAs including one completed for the Geneva School of Boerne. The Phase I ESA had identified the presence of significant promiscuous dumping within an approximate 0.26-acre area and a Phase II ESA was recommended. Debris was removed and properly disposed of. Assessment activities included environmental sampling of areas beneath rusted vehicles, barrels, and any observed staining areas. Completion of assessment activities facilitated sale of the property to Geneva School of Boerne to allow for future access of IH-10 access road.

TxDOT – FM 529 Initial Site Assessment, *Harris and Waller Counties, TX*
Ms. Johnson managed the performance of a hazardous materials' initial site assessment to identify evidence of past and/or present activities involving hazardous substances and/or petroleum products along FM 529 from State Highway 99 to FM 362. She oversaw extensive site visits, review of state and federal environmental regulatory databases, historical aerial photographs, topographic maps, Sanborn maps, and city directories.

CPS Energy – Natural Resources Contract, *San Antonio, TX*
Ms. Johnson has served as a technical lead for CPS Energy's Natural Resources contract since June 2018. She has coordinated with CPS Energy staff, provided project proposals, and managed billing for the

projects she serves. Ms. Johnson coordinates with the multidisciplinary team leaders to provide appropriate services. Ms. Johnson served on the following projects of the contract:

- Sagrado Vineyard and Winery Endangered Species Assessment
- Mission San Juan Tree Preservation
- Fair Oaks Substation Endangered Species Assessment
- FM 471 TAP SP Project Geologic Assessment, Endangered Species Assessment, and AST Facility Plan
- SH 211 Tree Survey, Tree Ordinance Compliance, and Endangered Species Assessment

CPS Energy – Potomac Archaeological Monitoring, *San Antonio, TX*
Pape-Dawson completed the Potomac archaeological monitoring project as a part of Pape-Dawson's CPS Energy 2018 Environmental Services On-Call Contract. Ms. Johnson serves as Client/Contract Manager for the on call environmental services agreement providing senior oversight for environmental compliance services.

CPS Energy Natural Resources Contract – Various Projects, *San Antonio, TX*
Ms. Johnson has served as the contract manager for the CPS Natural Resources Contract since June 2018. As contract manager, Ms. Johnson has coordinated with CPS staff, provided project proposals, and managed billing for the projects that she serves as project manager on. To date, Pape-Dawson has worked on eight projects with a value over $120,000. As many disciplines are part of the scope of the project, Ms. Johnson coordinated with the team/discipline leaders to provide the appropriate services. Ms. Johnson served as project manager for the following projects as part of the contract:

- Sagrado Vineyard and Winery; Endangered Species Assessment;
- Mission San Juan Tree Preservation; Tree Compliance;
- Fair Oaks Substation; Endangered Species Assessment;
- FM 471 TAP SP Project, Geologic Assessment, Endangered Species Assessment, AST Facility Plan; and
- 18150 State Highway 211, Tree Survey, Tree Ordinance Compliance, Endangered Species Assessment.

Parcel B-1 of Cole Ranch – Livestock Dipping Vat Remediation, *Comal County, TX*
As project manager, Ms. Johnson designed a sampling strategy to meet regulatory requirements for the Voluntary Cleanup Program (VCP). Surface soil, subsurface soil and groundwater were sampled to assess the extents of elevated levels of arsenic from the past use of a livestock dipping vat. Ms. Johnson also developed a remediation strategy to manage arsenic-affected soils within the tract to achieve levels suitable for commercial/industrial land use.

Mini #51 – Phase I and II Environmental Site Assessment, *San Antonio, TX*
Ms. Johnson served as project manager for Phase I activities, which included site reconnaissance; historical aerial photographs, topographic maps, and city directory evaluations; federal, state, and local government file reviews; and preparation of reports summarizing the investigations compared with state regulations. During the phase I site assessment, an underground storage tank was identified associated with prior land use. Soil and groundwater samples indicated soil contamination had occurred. Ms. Johnson recommended and directed the proper excavation and off-site disposal of contaminated soils.

Pan Am Plaza Flea Market – Phase I and II Environmental Site Assessment, *San Antonio, TX*
Ms. Johnson served as project manager for phase I activities, which included site reconnaissance; historical aerial photographs, topographic maps, and city directory evaluations; federal, state, and local government file reviews; and preparation of reports summarizing the investigations compared with state regulations. During the phase I site assessment, several adjacent underground storage tanks in the LPST program were identified immediately adjacent to the property. Phase II ESA results indicated onsite groundwater was affected from the offsite hydrocarbon release. Ms. Johnson developed recommendations including the following: the owner could apply for the TCEQ's Innocent Owner/Operator Program.

9615 Ball Street – Phase I, *San Antonio, TX*
Ms. Johnson served as project manager for a phase I ESA to identify evidence of past and/or present activities involving hazardous substances and/or petroleum products at an industrial manufacturing facility in San Antonio. The phase I ESA activities included an extensive site visit, reviewing state and federal environmental regulatory databases, historical aerial photographs, topographic maps, city directories evaluations, and conducting interviews to search for any recognized environmental concerns. Based on Ms. Johnson's direction, documents from the TCEQ regarding multiple leaking petroleum storage tank (LPST) facilities located adjacent to the property were also reviewed. Based on the file review activities that confirmed the presence of two up-gradient LPST facilities, a phase II ESA was recommended.

Balcones Resources – Phase I, Phase II, and Release Determination Report, *Austin, TX*
In August of 2019, Ms. Johnson served as project manager for a phase I ESA at Balcones Resources, a recycling facility in Austin. Following the phase I ESA, Ms. Johnson designed a sampling strategy for a phase II ESA to assess an existing underground storage tank (UST) system involving two USTs and associated piping. Additionally, a release determination report was prepared under her direction to meet the requirements for TCEQ's guidance document, Investigating and Reporting Releases from Petroleum Storage Tanks, RG-411, Revised August 2012.

Central Texas Regional Water Supply Corporation – Vista Ridge Regional Water Supply Project, *Burleson to Bexar Counties, TX*
Ms. Johnson served as an environmental manager responsible for reviewing Phase I and II ESA on a 142-mile water pipeline spanning from Burleson County to north Bexar County, including 511 individual parcels. The Phase II ESA included test trench excavation, soil boring and temporary monitoring well installation, and fill material soil sampling. She reviewed soil and groundwater management plans for each phase of construction and a landfill waste remediation work plan for Texas Commission on Environmental Quality approval. (2019-2019)

Bexar Metro – 911 Network District Emergency Operations Center, *San Antonio, TX*
Ms. Johnson served as the project geologist and prepared Spill Prevention, Control, and Countermeasure plans in accordance with 40 CFR 112 to provide a description of the engineering controls and administrative procedures in place at the facility subject to the rules to prevent and/or control the spills of oil or hazardous substance. This facility operates as an emergency center for 911 calls in Bexar, Comal, and Guadalupe counties.

San Antonio River Authority – Westside Creeks Restoration Projects, San Antonio, TX
Ms. Johnson currently serves as one of the environmental scientists for evaluating a 1.6-mile corridor of San Pedro Creek in western downtown San Antonio. The preliminary evaluation consisted of flood, environmental, archaeological, structural, geotechnical, and property ownership/acquisition services. Phase I and II ESA were conducted. Ms. Johnson assisted with the Phase II ESA and contributed to the effort to determine options for excavated soil disposition and the management of groundwater that will be generated during construction.

Phase I Environmental Site Assessments, *Various Locations in TX*
In the last three years, Ms. Johnson has served as the environmental manager for at least 100 Phase I ESAs. Ms. Johnson has served as project manager for Phase I ESAs to identify evidence of past and/or present activities involving hazardous substances and/or petroleum products at various locations in Texas. Phase I ESA activities included extensive site visits, reviewing state and federal environmental regulatory databases, historical aerial photographs, topographic maps, fire insurance rate maps, and city directories. Notable projects have included:

- Westlakes; +500-Acre Tract, San Antonio, TX (June 2017)
- Culebra Commons, San Antonio, TX (June 2017)
- Travisso, Travis County, TX (July 2018)
- Citizens Building, Austin, TX (December 2018)
- Tradesman Quarry, San Antonio, TX (December 2018)
- Harris County MUD, Houston, TX (June 2019)
- Alamo BMW, Boerne, TX (July 2019)
- Tarrant County State Veterans Home, Fort Worth, TX (October 2019)
- Kaiser Creek, Abilene, TX (November 2019)

Phase II Environmental Site Assessments, *Various Locations in TX*
Ms. Johnson has served as environmental manager for Phase II ESAs at various locations in Texas to determine the presence, or absence of, petroleum products or hazardous waste in soil and/or groundwater. She was responsible for managing field activities. Additionally, she interpreted analytical results, and reviewed the Phase II report. Projects have included:

- Greenline Village, San Antonio, TX (June – August 2017)
- Beitel Creek Reclamation, San Antonio, TX (July 2017)
- Beacon Island, League City, TX (January 2018)
- 400 Probandt, San Antonio, TX (March 2018)
- MRC Senior Living, Sugar Land, TX (June 2018)
- BMC Southcross, San Antonio, TX (August 2018)
- 2523 FM 1917, Dimmit County, TX (August 2018)
- Ralph Brooks FCU, Portland, TX (November 2018)