Federal Environmental Review

Environmental Information Document

To be used for projects receiving funding from the Clean Water State Revolving Fund or the Drinking Water State Revolving Fund

TWDB-0801
5/22/2015

Introduction: Full Environmental Review

When federal loan program funds are spent on a construction project, the project must be assessed for environmental impacts. The Environmental Information Document (EID) allows the Water Supply and Infrastructure Division, as well as other review agencies, to make determinations about the degree of impacts that can reasonably be expected to occur as a result of construction of a proposed project. For additional information about different types of impacts, see the scope of impacts section on the following page. Each sheet in the following template is intended to address a specific requirement needed to comply with the National Environmental Policy Act (NEPA). Information included in this template represents baseline information pertinent to the majority of projects. This template does not replace the necessity to submit a regulatory permit application to the U.S. Army Corps of Engineers (when applicable). Regulatory agencies and the TWDB may require additional information to determine project specific mitigation and permitting requirements as well as issue an environmental finding. Projects seeking funding through the Clean Water State Revolving Fund (CWSRF) or the Drinking Water State Revolving Fund (DWSRF) are subject to NEPA requirements. A full explanation of TWDB environmental requirements is provided in 31 TAC §375, Subchapter E (CWSRF), and 31 TAC §371, Subchapter E (DWSRF).

Timing

Preparation of the EID is conducted during the planning phase of the project after a loan commitment has been secured. Please note that issuance of an environmental determination by TWDB environmental staff is required prior to TWDB approval of the Engineering Feasibility Report and release of design and/or construction funds. From beginning to end, this process can be completed in as few as 4 months but typically takes 8 to 10 months for most projects.

Example timeline for the preparation of an EID:

- Variable: Preparation of the base document (time varies by consultant).
- 2-3 months: Agency coordination & public meeting (agency coordination does not need to be complete prior to the public meeting).
- 1 month: Preliminary review of the EID by TWDB staff. After review, the TWDB will send a list of deficiencies to the consultant identifying any additional information required.
- Variable: Submission of supplemental information by the consultant as required by TWDB comments (time varies by consultant).
- 1 month: TWDB approval of the EID and issuance of an environmental determination.
- 1 month: 30-day public comment period.
- Board: Next available Board date for an affirmation of the original loan commitment.

Report Structure

The structure of the EID is crucial in allowing for an efficient review of the document. Adhering to the provided structure will allow for ease of use by the project reviewer and others who may be unfamiliar with the project. For projects that contain multiple components, the EID must be prepared in a manner that addresses each component in an orderly fashion.

Submission

Once completed, the EID, as well as any questions regarding the preparation of the document or review process, should be submitted to:

Environmental Reviewer
Texas Water Development Board, Regional Water Planning & Development
P.O. Box 13231, Austin, Texas 78711-3231
Telephone: (512) 936-0938

Scope of Impacts

When constructing a project, three types of impacts must be documented in the EID. These impacts are as follows:

- Direct impacts
- Secondary impacts
- Cumulative impacts

Benefits – Environmental impacts that result in a positive outcome

Secondary and cumulative impacts are often assessed jointly. Environmental impacts can be both positive (hereafter known as benefits) and negative (hereafter known as impacts). The EID should include a discussion of both impacts and benefits. When considering cumulative impacts under NEPA, review and implement the information in *Considering Cumulative Effects Under the National Environmental Policy Act*, which is published by the Council of Environmental Quality.

Direct Impacts

Direct impacts are effects on the environment that occur at the same time and place as the project. They are the most certain and predictable of the impacts and are typically the easiest to identify. Direct impacts include impacts from construction-related activities as well as impacts related to operation of a newly constructed or modified facility upon completion of construction. Construction impacts include such things as air emissions from construction vehicle traffic, soil disturbance, sedimentation and erosion, and land clearing activities. Operational impacts include such things as increased noise from generators or other equipment in use after construction is completed, odors associated with pump stations, and increased effluent discharge to a stream from a plant expansion.

Direct Impacts – Effects on the environment that occur at the same time and place as the project.

Examples of direct impacts include the following:

- Displacement of wildlife due to vegetation clearing associated with construction projects
- Air emissions from open burning during construction
- Aquatic habitat degradation from installation of a sewer pipe crossing a stream
- Increased nutrient loading in a river from a wastewater treatment plant discharge
- Odors from a wastewater treatment plant

Secondary Impacts

Secondary impacts are effects to the environment and natural resources that are removed in time and distance from a project's construction and operation activities. Secondary impacts are also called "indirect impacts" and are often thought of as chain reaction processes where one action or result leads to another action or result. Guidelines for implementing NEPA (40 CFR §1508.8) broadly define secondary impacts as:

Secondary impacts (indirect impacts) – Effects to the environment and natural resources that are more removed in time and distance from a project's construction and operation activities.

> *…indirect effects, which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems.*

Secondary impacts associated with infrastructure projects are often related to residential, commercial, and industrial growth that the infrastructure project supports. For example, after sewer service is extended into an unsewered area, a subdivision might be built. The paved roads and other impervious services in the new subdivision may increase the level of pollutants in a nearby stream due to runoff. The decreased water quality that results in the stream is not directly related to the construction or operation of the sewer system, but it is indirectly related to the project because the expanded sewer system supported development of the new subdivision.

Cumulative Impacts

Cumulative impacts are effects that result from the project's direct impacts when added together with impacts from other past, present, and future projects that can be reasonably predicted. NEPA regulations define cumulative impacts as "environmental impacts which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time."

Cumulative impacts – Effects that result from the project's direct impacts added together with impacts from other past, present, and future projects that can be reasonably predicted.

Evaluating cumulative impacts requires analysis of the "big picture" in terms of time and space. Consider the following example: run-off from parking areas surrounding a single shopping center might not be a significant stressor to the receiving stream, but the combined run-off from multiple shopping centers located in the same watershed can become a significant stressor. Another example would be where a combination of wastewater infrastructure projects in the same river basin could create nutrient issues downstream. Note: In some cases, cumulative impacts may be positive. For example, if, in a watershed, several stream and wetland restorations are implemented in the headwaters of the watershed, then nutrient loadings and siltation may be reduced downstream. Cumulative impacts are an issue that must be considered any time that growth is anticipated in the project area, even if that growth is not facilitated by or connected to the proposed project. If impacts from a proposed project are minor and limited to construction only, they are less likely to contribute to cumulative impacts in the broader project area.

Cumulative impacts must be considered and discussed for any project that takes place in an area experiencing growth and development, even if the proposed project is not an expansion project.

Environmental Information Document

The following pages, beginning with the Table of Contents, contain the template EID. The following nine (9) sections should be completed to the maximum extent practicable. To expedite the review of this document, please provide all requested information in a clear and concise manner. If a section does not apply to the project, please indicate that it does not apply by writing "Not Applicable" in the space provided. Sections 1, 3, 4, and 5 request specific information regarding the proposed project; alternatives considered; the environmental setting of the project; potential direct, secondary, and cumulative impacts; and proposed mitigation. Section 2 provides a list of attachments that should be included in Section 9 of the EID. As noted in Section 2, documents lacking required attachments will not be accepted. Section 6 describes the public participation process and the materials that must be submitted by the applicant after a public meeting has occurred. In order to facilitate agency coordination, Section 7 provides a rubric for the applicant to determine whether agency coordination is required. Example coordination and notification letters are conveniently provided within the document. Section 8 contains a certification statement whereby the applicant confirms that the information contained in this document is accurate and complete to the applicant's knowledge, and that this document describes the complete project.

***To update the Table of Contents: (1) Click on Table, (2) Choose Update Table, (3) Select Update Entire Table**

Table of Contents

Section 1: General Information

Authority (Loan Applicant): San Antonio Water Systems

TWDB Project No: 12981

Project Name: Highway 90 and General McMulllen Pressure Zone Integration

Counties where project activities will occur: Bexar

Funding Source/ Loan Number:	TWDB DWSRF	1157562 / /
Total Estimated Project Costs:	4,130,290.00	
TWDB Funded Phases:	☒ Planning ☐ Acquisition ☒ Design ☒ Construction	
Other Funding Source(s):	None	
Consultant Project Name/Number (if applicable):	San Antonio Water Systems Zone Integration EID / 90197228	
Primary Contact for questions concerning the EID:	Company:	Terracon Consultants, Inc.
	Contact Person:	Jennifer Trombley Peters
	Mailing Address:	6911 Blanco, San Antonio, Texas 78216
	Phone:	210-907-7648
	Email:	Jennifer.peters@terracon.com
Project Engineer:	Company:	Bain Medina Bain
	Contact Person:	Carl Bain, PE
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	Phone:	210-494-7223
	Email:	cbain@bmbi.com

List of Preparers:

1. Jennifer Trombley Peters
2. Kevin Moczygemba, CWB
3. David Yelacic, RPA
4. Jeremy Hanzlik, PE

Section 2: List of Attachments

Documents lacking required attachments will not be accepted

Identify the project footprint on all maps.

Maps must have adequate resolution and be at an appropriate scale.

Example project maps are provided online at:

http://www.twdb.texas.gov/financial/instructions/doc/TWDB-1800.pdf

Many of the resources required by the following list of attachments can be acquired for free online. If you are unfamiliar with the resources identified below or are not sure where to find them, please contact your environmental reviewer for assistance.

Map(s): Show existing structures, potential location(s) of new or upgraded structure(s), and areas(s) that will be disturbed by the project, including construction staging area(s). Provide a scale bar, north arrow, and legend.

Label and Describe: Potentially-impacted environment(s) and site feature(s) (e.g., public/private property, developed or landscaped areas, roads, historic properties, wetlands, forested areas, rivers, streams, 100-year floodplain, prime farmland, wild and scenic rivers, protected areas, above and below-ground utilities, U.S. EPA designated sole source aquifer areas, etc.)

Appendix A: Standard Maps

Regional Location Map	Page: A-1
USGS Topographic Map(s) for Preferred Alternative	Page: A-2
Project footprint or plans/plats	Page: A-3
Geologic Map	Page: A-4
FEMA Floodplain Map(s)	Page: A-5
National Wetlands Inventory Map(s)	Page: A-5

Appendix B: Environmental Setting, Impacts and Mitigation Attachments

Appendix B1 Soils & Prime and Important Farmland (Section 5.3) Page: B-9 - 14	NRCS Soil Survey for Proposed Project Area of Interest (Required) ☒ Map + Table of Soils (Series level) ☐ Map + Table of Hydric Soils ☒ Map + Table of Prime & Important Farmlands NRCS Farm Impact Rating (If Applicable) Farm Impact Rating Form	Attached ☐	N/A ☒
Appendix B2 Wetlands, Streams & Waters of the U.S (Section 5.6) Page: B-N/A	Wetland & Streams Impacts Map (If Applicable) Wetland & Streams Impacts Map Wetland Delineation Report (If Applicable) Wetland Delineation Report	Attached ☐ Attached ☐	N/A ☒ N/A ☒

Section 2: List of Attachments **Documents lacking required attachments will not be accepted**	
Appendix B3 Biological Resources (Section 5.7) Page: B-18 - 56	County List of Rare, Candidate, Threatened and Endangered Species (Required) ☒ USFWS: County List of Federal Candidate, Threatened and Endangered Species ☒ TPWD: County List of State and Federal Rare, Threatened and Endangered Species ☒ Potential Impacts Table
Appendix B4 Cultural Resources (Section 5.8) Page: B-58 - 68	Cultural Resources Report (If Applicable) Cultural Resources Report Attached ☒ N/A ☐
Appendix B5 Hazardous Materials (Section 5.9) Page: B-70 - 176	Hazardous Materials (If Applicable) Formal Site Assessment Attached ☐ N/A ☒
Appendix B6 Social Implications & Environmental Justice (Section 5.10) Page: B-178 -191	All maps & reports should be generated through the EPA's EJ View Website (Required) ☒ EJ View Map (add a 0.5 mile buffer around the construction area) ☒ ACS Summary Report ☒ Census Summary Report ☒ Environmental Report Census QuickFacts Summary (Required) ☒ City vs. State ☒ County vs. State
Appendix B7 Public Meeting (Section 6) Page: B-	Public Meeting Documentation ☐ Publisher's affidavit and a copy of the Public Meeting Notice ☐ Statement signed by applicant - meeting was held in conformance with the Public Meeting Notice. ☐ List of witnesses ☐ Written summary of the meeting

Section 3: Project Description
Preferred Action Alternative

For the purposes of this document the project site includes all areas that will be disturbed by the project, including construction staging area(s). The project area includes surrounding areas which may, directly or indirectly, be impacted by the project.

1. **Background:** Briefly describe the existing system (e.g., treatment processes, capacity of treatment plant, annual average and peak demand flows, etc.).

The San Antonio Water Systems (SAWS) provides drinking (potable) water to approximately 1.8 million people includes 460,000 water customers. To provide the drinking water, SAWS owns and maintains over 12,000 miles of distribution lines within 560 square miles. Sources of the drinking water include the Edwards, Carrizo, Carrizo/Simsboro, Trinity, and Wilcox Aquifers as well as Canyon Lake and recycled water. On a daily basis, the average SAWS household, consumes/uses approximately 194 gallons per day. Existing drinking water lines are located within rights-of-way (ROW) along roadways, utility easements and public areas.

2. **Project Location:** Briefly describe the project location (e.g., new undeveloped site, existing treatment plant site, undeveloped portion of an existing site, site adjacent to existing facilities, currently owned, acquisition required, etc.).

The project area is located within a developed area in San Antonio, Bexar County and includes areas within existing ROW associated with the following roadways: General McMullen, Queretaro, Ceralvo Street, Camilo, Amerada Street, General McMullen, W Malone, Phyllis, Brady, and Cupples. The area consists of five separate locations, associated with four connections, within an approximately 124 acre site, northeast of Lackland Air Force Base. The area consists of single-family homes, cemetery, educational facility, and commercial businesses. The project is located within Pressure Zone 823.

Latitude/Longitude: 29.410986, -98.554075
Project Address (if applicable): Not Applicable

Section 3: Project Description
Preferred Action Alternative

3. **Project Need & Purpose**: What need does the project address? (e.g., improve water quality, increase capacity, inadequate system or system components, increase treatment due to more stringent effluent limits, linear work, etc.)

The purpose of this project is to ensure continual service to Pressure Zone 823, if a pump station fails or is off-line. One of the pump stations for the zone, the station at 21st Street, is in poor condition, and has the potential to be off-line. If the pump goes off-line the users within Pressure Zone 823 would lose service, temporarily. To ensure that services go uninterrupted, Pressure Zone 823 needs to be connected to a more reliable pump station or an existing pressure zone with appropriate capability.

Is the proposed project being pursued in response to a compliance order? No

4. **Project Description**: Description should include project costs, design year and design population.

The project will include replacing and installing new lines at four connections.

Connection 1 – Installation of a 12-inch water main along Amerada Street, Camilo Street and Queretaro Street. Connection 1 will connect the existing 12-inch water main on Patton Boulevard to the existing 12-inch water main on General McMullen Drive near Queretaro Street. The installation will include open trenching within the existing right of way.

Connection 2 – Installation of a 12-inch water main installation along General McMullen Drive. Connection 2 will connect the existing 12-inch water main on Morelia Street to the existing 12-inch water main on Castroville Road. The installation will include high density polyethylene (HDPE) directional boring along General McMullen, immediately adjacent to San Fernando Cemetery. The initial and the terminal ends of the bore will be beyond the cemetery. All activities will occur within existing right of way.

Connection 3 – Installation of 12-inch water main installation along West Malone Drive and Phyllis Street, connecting the existing 8-inch main along Frio City Road to the existing 12-inch main along Jennings Avenue. The installation will include open trenching as well as HDPE directional boring. The open trenching will occur along Phyllis Street whereas the directional boring will occur along West Malone Drive. All activities will occur within existing right of way.

Connection 4 – Installation of a 16-inch water main installation along Brady Boulevard connecting the existing 12-inch water main on Cupples Road to the existing 20-inch water main on Barclay St. The installation will include open trenching within the existing right of way along Brady Boulevard.

Construction is anticipated to commence in 2020.

Upon completion, the project will move approximately 4,800 customers from Zone 823 to Zone 828.

Section 3: Project Description
Preferred Action Alternative

Is the proposed project part of a larger project? ☐ Yes ☒ No

If the proposed project is one phase of a larger project, describe the duration and purpose of the larger project.

5. **Waste Disposal:** Does the project require sludge/soil/waste disposal? ☐ Yes ☒ No

If yes, identify the location(s) and method(s) of disposal:

Not applicable

6. **Project Components:** Provide a bulleted list (e.g. install 1,000 linear feet of new 6-8 inch pipeline in existing ROW and easements from the outfall structure in Lake X to the WTP, install new 300,000 gallon ground storage tank at the WTP, demolish existing chemical storage building, etc.).

- Excavate and abandon existing lines
- Install 8,600 linear feet of new main within existing ROW
- Install 1,600 linear feet of replaced main, replacing existing 6 inch lines with 16 inch within existing ROW
- Restore excavated areas to pre-construction condition

7. **Project Magnitude:**

i. Current population of service area: 1,986,049
ii. Anticipated population of service area in 20 years: 2,830,879
iii. Will the proposed project service the entire population increase? ☐ Yes ☒ No

8. **Project Schedule:**

Anticipated Completion of Environmental Review: March 2020

Completion of Acquisition:	No land is anticipated to be acquired
Completion of Permitting:	May 2020
Completion of Design:	March 2020
Start of Construction:	September 2020
Construction Completion:	June 2021

Section 3: Project Description
Preferred Action Alternative

9. **Project Costs:** Provide an estimate of the cost of the project. $4,130,290.00

10. **Other Projects:** Provide a description of any other projects in progress that may be affected by the proposed project (e.g., TxDOT plans for Road Construction, etc.).

No known Texas Department of Transportation (TxDOT) projects are planned between the present and 2023; however, a City of San Antonio project associated with South Zarzamora is anticipated to begin construction September 2022, beyond the completion of the proposed action. The South Zarzamora project will include construction of an overpass, allowing for South Zarzamora traffic to flow over the existing Union Pacific Railroad rail lines, which are located parallel to Frio City Road. During construction, soils and existing roadways will need to be removed; however, the drinking water lines associated with this proposed action should not be impacted since the lines will be within the ROW and at a depth to which they should not require any modification. Additionally SAWS, has ongoing capital improvement projects within the service area, however; these projects are being performed independently of the proposed project and should not affect the proposed project.

Section 4: Alternative Analysis

No-Action Alternative

Environmental Impact Description
Provide a qualitative description of the environmental impacts of the no-action alternative and compare the impacts to that of the preferred alternative. (e.g., WTP would remain out of compliance with TCEQ primary drinking water standards, leaky on-site septic systems would continue to contaminate surface water, etc.)
Under the No-Action Alternative, residents and businesses served within Pressure Zone 823 would continue to rely upon an antiquated drinking water pump to provide continual drinking water. The potential for the pump to fail would remain, allowing for those served within the zone to lose access to potable water when the pump does fail. This would not meet the purpose and need, to provide continual service to Pressure Zone 823. Additionally, SAWS mission is to “proudly serve our customers and help communities flourish with plentiful, quality, affordable water service.“ Under the No-Action Alternative, SAWS could not meet their mission since they could not provide plentiful water service.

Section 4: Alternative Analysis

No-Action Alternative

Environmental Impact Analysis

Please indicate whether the direct impacts of the no-action alternative on the following resources are greater than, less than or the same as the direct impacts of the preferred alternative on the same resource.

Land Use						
Change in land use and land cover is:	☐	Greater	☐	Less	☒	Same
Prime and Important Farmland						
Impacts to prime and important farmland are:	☐	Greater	☐	Less	☒	Same
Water Resources						
Impacts to surface water quality are:	☐	Greater	☐	Less	☒	Same
Impacts to groundwater quality and quantity are:	☐	Greater	☐	Less	☒	Same
Impacts to floodways or floodplains are:	☐	Greater	☐	Less	☒	Same
Impacts to wetlands are:	☐	Greater	☐	Less	☒	Same
Vegetation and Habitat						
Impacts to trust resources are:	☐	Greater	☐	Less	☒	Same
Impacts to wildlife are:	☐	Greater	☐	Less	☒	Same
Impacts to native vegetation is:	☐	Greater	☐	Less	☒	Same
Impacts to endangered species habitat are:	☐	Greater	☐	Less	☒	Same
Cultural Resources						
Impacts to cultural resources or historic properties are:	☐	Greater	☐	Less	☒	Same
Air Quality						
Effects on air quality are:	☐	Greater	☐	Less	☒	Same
Environmental Justice						
Impacts to Low-income or Minority Populations are:	☐	Greater	☐	Less	☒	Same

Section 4: Alternative Analysis

No-Action Alternative

Secondary and Cumulative Impacts: Considering resources that the no-action alternative will impact, identify any past, present or reasonably foreseeable future projects which impact these same resources. This answer will provide important contextual information.

The Region of Influence is the Pressure Zone 238, known past and present, or reasonably foreseeable future projects within this zone area analyzed. The no-action alternative is not likely to have any secondary or cumulative impacts on land use, conversion of farm land, induced development, environmental justice populations or demographic changes within the study area, noise, air quality, floodplains, jurisdictional waters of the U.S., vegetation communities, or wildlife habitat within the project area.

Acceptance/Rejection

Alternative: ☐ Accepted ☒ Rejected

Rationale for Acceptance/Rejection

Discuss the rationale for acceptance/rejection of the no-action alternative, including financial, engineering and environmental considerations (e.g. cost comparison, reliability of alternative, complexity of alternative, significant environmental effects, legal or institutional constraints, etc.):

The No-Action Alternative is not feasible in response to deteriorating service within Pressure Zone 823. San Antonio is currently the second fastest growing cities in the United States. Due to the age of the existing pump, any additional water demand has the potential to not be met and could increase the deterioration of the pump, In addition, the cost for maintaining or replacing the existing pump exceeds the cost to connect Pressure Zone 823 to Pressure Zone 828.

Under the No-Action Alternative, SAWS could not meet their mission (“to proudly serve our customers and help communities flourish with plentiful, quality, affordable water service) as well as would not meet the purpose and need since they could not provide continual and plentiful service to Pressure Zone 823.

Section 4: Alternatives Analysis

Alternative Not Selected

Attach additional alternative sheets as necessary

Description

Please provide a description of this alternative:

One alternative was reviewed, replacing and resizing of the existing pump.

Alternative still in consideration? ☐ *Yes ☒ No

**If yes, please note that the level of detail provided for this alternative should be commensurate with the level of detail provided for the preferred alternative presented in this document. Please work with your Environmental Reviewer to scope this document appropriately in order to prevent project delays.*

Environmental Impact Description

Provide a qualitative description of the environmental impacts (adverse and beneficial) of this alternative and compare the impacts to that of the preferred alternative. Specify temporary versus permanent impacts.

Under the alternative not selected, soils within the existing ROW would not be disturbed; however, additional construction at the existing pump station would be required, requiring soils to be disturbed as well as an increase of impervious cover. The impacts to soils could be mitigated with the use of best management practices to decrease the potential for sediment loading during rain events and would be short-term. The increase of impervious cover, increasing stormwater runoff is anticipated to be negligible.

Section 4: Alternatives Analysis

Alternative Not Selected

Attach additional alternative sheets as necessary

Environmental Impact Analysis

Please indicate whether the direct impacts of the alternative not selected on the following resources are greater than, less than or the same as the direct impacts of the preferred alternative on the same resource.

Land Use						
Change in land use and land cover is:	☒	Greater	☐	Less	☐	Same
Prime and Important Farmland						
Impacts to prime and important farmland are:	☐	Greater	☐	Less	☒	Same
Water Resources						
Impacts to surface water quality are:	☐	Greater	☐	Less	☒	Same
Impacts to groundwater quality and quantity are:	☐	Greater	☐	Less	☒	Same
Impacts to floodways or floodplains are:	☐	Greater	☐	Less	☒	Same
Impacts to wetlands are:	☐	Greater	☐	Less	☒	Same
Vegetation and Habitat						
Impacts to trust resources are:	☐	Greater	☐	Less	☒	Same
Impacts to wildlife are:	☐	Greater	☐	Less	☒	Same
Impacts to native vegetation is:	☐	Greater	☐	Less	☒	Same
Impacts to endangered species habitat are:	☐	Greater	☐	Less	☒	Same
Cultural Resources						
Impacts to cultural resources or historic properties are:	☐	Greater	☐	Less	☒	Same
Air Quality						
Effects on air quality are:	☐	Greater	☐	Less	☒	Same
Environmental Justice						
Impacts to Low-income or Minority Populations are:	☐	Greater	☐	Less	☒	Same

Section 4: Alternatives Analysis

Alternative Not Selected

Attach additional alternative sheets as necessary

Secondary and Cumulative Impacts: Considering resources that this alternative will impact, identify any past, present or reasonably foreseeable future projects which impact these same resources. This answer will provide important contextual information.

The secondary and cumulative impacts would be similar to those of the preferred alternative because the Region of Influence is the same; therefore, the impacts to resources would be similar if not identical.

Acceptance/Rejection

Alternative: ☐ Accepted ☒ Rejected

Rationale for Acceptance/Rejection

Discuss the rationale for acceptance/rejection of this alternative, including financial, engineering and environmental considerations:

The cost to replace the existing pump exceeds the cost linking Pressure Zone 282 to 285; therefore, was rejected from consideration.

Section 4: Alternatives Analysis
Selection of the Preferred Action Alternative

Discuss the rationale for why the proposed project was chosen as the preferred alternative:

The preferred alternative would provide a cost effective method in which to ensure that the customers within Pressure Zone 282 receive continual access to potable water.

Section 5: Environmental Settings, Impacts and Mitigation

5.1: Land Use

Existing Conditions

Will the project require land use conversion? ☐ Yes ☒ No

If yes, explain:

Not applicable

Describe current and recent past land use and development on the site and on adjacent lands. Discuss project compatibility with adjacent and nearby land uses.

The project area includes ROW adjacent to City of San Antonio maintained roads, varying from two lanes to six. The area was agricultural prior to 1938, except for the San Fernando Cemetery, which was dedicated March 13, 1921.Between 1938 and 1953, single family homes and associated roads were constructed within the project area. Between 1959 and 1966 the construction of United States Highway 90 begun and was completed by 1977, including the “cloverleaf” ramps.

Will new or expanded utilities, roads, other infrastructure or public services be required to serve the project?

☐ Yes ☒ No

If yes, describe additional services needed:

Not applicable

Impacts

Describe direct impacts of the project (adverse and beneficial) on land use. Specify temporary versus permanent impacts.

No changes in land use will be required as a result of implementing the Proposed Action. Therefore, no impact, both short and long-term, to this resource is expected.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.2: Geology

Existing Conditions

Physiographic Province:	☐ Gulf Coast Plains	☐ Central Texas Uplift	☐ Grand Prairie
	☒ Edwards Plateau	☐ North-Central Plains	☐ High Plains
	☐ Basin and Range		

Are there faults within the project's area of interest?	☐ Yes ☒ No
Is the project located in a Karst or Pseudo-Karst Zone?	☐ Yes ☒ No

Include the names and brief descriptions of the geologic formations in the project's area of interest.

Per the U.S. Geological Survey's Texas Geology Web Map Viewer (accessed July 2019), the project area is located over the top of fluviatile terrace deposits (Qt). The deposits are composed of sand, silt, clay and gravel in various proportions, with gravel more prominent in areas with older deposits. San Antonio is on the edge of the Balcones Escarpment and the Interior Coastal Plains (Physiographic Map of Texas, Bureau of Economic Geology, 1996). Increasing amounts of sand, silt, and clay are present in the vicinity of Tertiary rocks; south of the Edwards Plateau and low terrace deposits are mostly above flood level along entrenches streams.

Discuss any relevant topographical and geological features (e.g. salt domes, sink holes, shallow limestone formations, karst conditions, cave systems, etc.).

There are no known relevant topographical and geologic features within the project area.

Impacts

Describe direct impacts of geology on the proposed project. Please elaborate on all items checked "Yes" above:

Under the proposed action, there would be no impact to the lithology, stratigraphy, and geological structures within and connected to the area since the proposed action will occur within areas of previous disturbance and in areas composed of sand, silt, and clay.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.3: Soils & Prime and Important Farmland

Soils

Is soil contamination present?	☐ Yes ☒ No
Does soil type present any constraints to the project?	☐ Yes ☒ No

If yes to either above, explain (if redundant with information provided in the Hazardous Materials section reference that section):

Not applicable

Will soil be moved offsite? ☒ Yes ☐ No	If yes, how will it be disposed of? Soil disposal is anticipated to be minimal; only the soil which would could not be filled in due to the installation of the line would be removed off site. SAWS would utilize the soils on concurrent project in which fill material is needed, within its Service Area.
Will soil become contaminated as a result of the proposed project? ☐ Yes ☒ No	If yes, explain:

Prime and Important Farmland

Does the project area contain prime and important farmlands?	☐ Yes ☒ No

If yes, does either of the following exemptions apply?

☐ Exempt – corridor subsurface project (e.g., buried water, sewage, and/or electric lines).

☒ Exempt – previously converted site (e.g., existing water and wastewater treatment plant sites).

If the project area contains prime and important farmlands and does not qualify for the exemptions listed above, include a completed version of the NRCS' Farmland Conversion Impact Rating Form AD-1006

☐ Attach Form AD-1006 to Appendix B1

Impacts

Will prime and important farmland be directly impacted by the project?	☐ Yes ☒ No

Describe direct impacts of the project on prime and important farmland:

Prime farmland is not present within the project area; therefore, no impact is anticipated.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.4: Water Resources

Existing Conditions

What river basin(s) is the proposed project located in?

San Antonio

What major/minor aquifers are located in the greater project area?

Carrizo-Wilcox

Are any of these a sole source aquifer?	☐ Yes ☒ No

Water supply(ies):	Surface water(s): Nearby – Apache Creek (tributary of the San Antonio River) approximately 1.44 miles to the northeast, Elmendorf Lake approximately 1.40 miles to the northeast, and Leon Creek (tributary of the Medina River) approximately 3.4 miles to the southwest. Groundwater(s): It is Terracon's experience groundwater is approximately 17 to 27 feet below existing ground surface; however, it is assumed that the groundwater is associated with a perched water table and is not used as a drinking water supply. The Carrizo-Wilcox aquifer underlies the perched water table and has available water approximately 670 feet below ground surface. The Carrizo-Wilcox aquifer is utilized as a drinking water source by SAWS. Between January 2014 and January 2018, a well operated by the USGS located within far South Bexar County, has observed that water is available between 260 and 100 feet below ground surface.

Water Well Projects

Does the project involve the installation of any water wells?	☐ Yes ☒ No

If yes, provide the depth to ground water, duration and quantity of water to be extracted, and potential affects to the public water supply:

Not applicable

Will the project require test wells?	☐ Yes ☒ No
Will any existing water well(s) be abandoned?	☐ Yes ☒ No

If yes, discuss best management practices that will be used to abandon the existing well(s):

Not applicable

Section 5: Environmental Settings, Impacts and Mitigation

5.4: Water Resources

Impacts to Water Resources

Will water resources be directly impacted by the project?	☒ Yes	☐ No

Describe direct impacts (adverse and beneficial) to surface water quality and groundwater quality/quantity (surface water runoff, erosion, sedimentation, temporary loss of vegetation cover, etc.). Specify temporary versus permanent impacts.

Temporary impacts to the project area are anticipated during the removal of soils for the installation of the pipelines. The impacts have the potential to include erosion of top soil, sedimentation during rainfall events, and temporary loss of vegetation cover during construction. The project area will be restored to pre-construction conditions upon completion of construction activities. No permanent impacts to surface water or ground water quality are anticipated as a result of this project.

During the removal of soils, the ground disturbed would be greater than one acre (approximately 1.7 acres); therefore, coverage under the Texas Pollutant Discharge Elimination System Construction General Permit, TXR150000, is required. Prior to construction, a Stormwater Pollution Prevention Plan (SWPPP) must be prepared and implemented, including best management practices to reduce erosion and sediment loading of stormwater runoff from the project area to reduce temporary impacts associated with ground disturbance (increased erosion and increased sediment loading within waterways adjacent to the disturbed area.

Will the project include new or relocated discharge site(s)?	☐ Yes	☒ No
Will the project require an amendment to an existing TCEQ discharge permit?	☐ Yes	☒ No

If yes, discuss the nature of the permit changes:
Not applicable

If the project requires a new permit or a permit amendment, list all stream segment(s) found at and immediately downstream of the proposed discharge sites. **Source: TCEQ list of stream segments and water quality data.**

Stream Segment ID	Classification	Impaired?	Reason for Impairment
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation
5.5: Topography and Floodplains

Topography

Minimum Elevation in Project Area (MSL):	Maximum Elevation in Project Area (MSL):
650	690

Briefly describe the topography in the project area (e.g., gently rolling hills, dominant drainage to the west via tributaries to the Brazos River):

The 2019, USGS San Antonio West, 7.5 Minute Quadrangle was reviewed. Based upon the review of the map, the four pipelines located near or adjacent to S. General McMullen Drive are higher in elevation than the single pipeline located along Frio City Drive, to the southeast of S. General McMullen Drive. Within the four pipelines there is a 10 feet elevation change, to the east; however, the elevation change occurs over a distance to where the change is not apparent. The change in elevation from S. General McMullen Drive to Frio City Drive is also slight (30 feet) and decreases to the east. The elevation decrease is towards Apache Creek.

Discuss any relevant topographical features (e.g. playa lakes).

There are no known relevant topographical features located within the project area. The topography slopes towards Apache Creek, approximately 1.44 miles from the project area.

Floodplains & Floodways

Is the project site located in a 100-year floodplain?	☐ Yes ☒ No ☐ Partial

If yes, list all streams with floodplains in project area. Specify whether the project will be located within the 100-year floodplain and/or floodway(s) of these streams.

Stream	Project in 100-year floodplain?	Project in floodway?
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No

Do the communities (cities and/or counties) in which the project will be constructed participate in the National Flood Insurance Program?	☒ Yes ☐ No ☐ Partial

List all participating cities and counties	List all non-participating cities and counties
City of San Antonio	Not Applicable
Bexar County	Not Applicable

Impacts

Will floodplains or floodways be directly impacted by the project?	☐ Yes ☒ No

Describe direct impacts of the project (adverse and beneficial) on floodplains and floodways. Specify temporary versus permanent impacts:

Under the proposed action no impact, temporary and long-term, is anticipated to both topography and floodplains. The project is located in existing ROWs; therefore, drainage is present throughout the project area allowing stormwater to flow unimpeded. Upon completion of the construction, disturbed areas would be returned to pre-construction condition and the ground re-leveled; therefore no change in the elevation is anticipated. Additionally, since the current elevation will remain and additional impervious cover will not be added to these areas, additional runoff water discharging into the floodplains and the flow to floodplains is not

Section 5: Environmental Settings, Impacts and Mitigation
5.5: Topography and Floodplains

anticipated to be increased or modified.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts?	☐ Yes	☒ Not applicable
If yes, list all mitigation measures in Section 5.14.		

Section 5: Environmental Settings, Impacts and Mitigation
5.6: Wetlands, Streams, and Waters of the United States

Information included in this template represents baseline information pertinent to the majority of projects. Regulatory agencies, including the USACE, may require additional information to determine permitting or mitigation requirements.

List all applicable U.S. Army Corps of Engineers permits for the project (general and/or individual):

U.S. Army Corps of Engineers permits are not anticipated.

Will any of the applicable permits require pre-construction notification? ☐ Yes ☐ No

If yes, which one(s): Not applicable

Are streams present on the project site or in the project area (perennial, ephemeral, intermittent)?

☐ Yes ☒ No

If yes, list all streams in the project area.

Not applicable

Are wetlands present on the project site or in the project area? ☐ Yes ☒ No

If yes, discuss the type and quality of wetlands (e.g., forested palustrine, emergent riverine):

Not applicable

Section 5: Environmental Settings, Impacts and Mitigation
5.6: Wetlands, Streams, and Waters of the United States

Has a site wetlands/waters delineation or jurisdictional determination been performed using the applicable USACE Wetland Delineation Manual*, including regional supplements**?

☐ Yes: If Yes, has it been verified by the USACE? ☐ Yes ☐ No
☒ No

*Environmental Laboratory. (1987). "Corps of Engineers Wetlands Delineation Manual". Technical Report Y-87-1. U.S. Army Engineers Waterways Experimental Station, Vicksburg, MS.

**The manual is to be used with the appropriate regional supplement. These supplements and the manual can be found on the following website:
http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/reg_supp.aspx

If yes, summarize the findings below and attach a copy of the field survey to Appendix B2. **If no**, describe the basis for above statements regarding presence or absence of wetlands and waters of the U.S..

The project area is within existing ROWs, and are not located within known wetlands or Waters of the United States. The National Wetland Inventory Map and the topographic map for the project area (United States Geologic Survey. 2019. San Antonio West Quadrangle, 7.5 Minute Series) were reviewed and neither documented the presence of a water feature.

Impacts

Will wetlands be impacted?	☐ Yes ☒ No	Will streams be impacted?	☐ Yes ☒ No
Are any of the impacted wetlands/streams in the project area tidally influenced?			☐ Yes ☒ No

Describe direct impacts of the project (adverse & beneficial) on streams and wetlands (e.g., fill, dredging, dewatering, surface water runoff, other pollutants, etc.). Specify temporary versus permanent impacts.

The project is located in existing ROW; known wetlands, streams, and/or Waters of the United States are not within the project area.

Section 5: Environmental Settings, Impacts and Mitigation

5.6: Wetlands, Streams, and Waters of the United States

Stream/Wetland Impacts (if applicable) *add rows if needed

This section must be accompanied by a Stream/Wetland Impact Map:

The map must include a topographic background with footprint of the project overlain. Assign a number to each stream/wetland in the project footprint and label each on the map (e.g., S1, S2, W1, W2).

Attach the map to Appendix B2

Stream Impacts:

Include all streams in project footprint even if impact is zero feet

# Keyed to Map (S1, S2,…)	Temporarily impacted		Permanently impacted	
	All Streams [linear ft]	Potential Waters of U.S. (streams only) [linear ft]	All Streams [linear ft]	Potential Waters of U.S. (streams only) [linear ft]
Total Stream Impacts (feet):				

Wetland Impacts:

Include all wetlands in project footprint even if impact is zero acres.

# Keyed to Map (W1, W2,…)	Temporarily impacted		Permanently impacted	
	All Wetlands [ac]	Potential Waters of U.S. (wetlands only) [ac]	All Wetlands [ac]	Potential Waters of U.S. (wetlands only) [ac]
Total Wetland Impacts (acres):				

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation
5.7: Biological Elements

Ecoregion:			
	☐ Arizona/New Mexico Mtns.	☐ Central Great Plains	☒ Texas Blackland Prairies
	☐ Chihuahuan Deserts	☐ Cross Timbers	☐ East Central Texas Plains
	☐ High Plains	☐ Edwards Plateau	☐ Western Gulf Coastal Plain
	☐ Southwestern Tablelands	☐ Southern Texas Plains	☐ South Central Plains

Using USFWS and TPWD County Lists of Rare, Candidate, Threatened and Endangered Species, create a table of potential impacts with the following columns:

(1) Species (common and scientific names), (2) State/federal protection status, (3) Habitat, (4) Presence of Critical Habitat, (5) Project Site Suitability, and (6) Potential Impacts of Project

Attach the Potential Impacts Table to Appendix B3

Has a biological field survey been performed?	☐ Yes	☒ No

If yes, summarize the finding below. Attach report to Appendix B3, if applicable – exclude report from publicly available documents to protect location sensitive information.

Not applicable

Are any parks, recreational areas, forest preserves, grassland preserves, wildlife refuges, wild or scenic rivers, karst faunal regions or zones, or nature preserves (federal, state or local; public or private) in or near the project area?	☐ Yes	☒ No

If yes, list and describe proximity to project site:

Not applicable

Briefly describe the vegetation and wildlife, including aquatic species, present in the project site and project area.

* Do not include protected species addressed in the potential impacts table.

The project area includes previously disturbed ROWs; as such the only vegetation present are grasses and broadleaf plants. Predominant vegetation includes: St. Augustine, (*Stentaphrum secundatum*), dallisgrass (*Paspalum dilatatum*), cleavers (*Gallium aparine*), and buttonweed (*Diodia virginiana*). The surrounding areas are also previously disturbed and include single family homes, cemetery, businesses, and roadways. The vegetation noted within vegetated areas include the grasses and broadleaf plants observed within the project area; however, live oaks (*Quercus virginiana*) reside within the cemetery.

Wildlife observed within the project and adjacent areas during field reconnaissance includes various bird species including but not limited to: Northern mockingbird (*Mimus polyglotto)*, brown-headed cowbird (*Molothrus ater)*, mourning dove (*Zenaida macroura*), and house sparrow (*Passer domesticus*).

Section 5: Environmental Settings, Impacts and Mitigation

5.7: Biological Elements

Impacts

Discuss potential impacts (adverse and beneficial) to trust resources, wildlife and natural vegetation, including habitat. Provide information about the nature, extent, duration and location of the impacts. Specify temporary versus permanent impacts.

* Do not include protected species already addressed in the potential impacts table.

Under the proposed action, during construction soil and associated vegetation will be removed; however, the loss of vegetation will be temporary. Upon completion of the installation of the lines, the areas will be re-graded and vegetation restored with similar grasses via seed mix. The wildlife within the area are accustomed to urban noises, including construction. During the construction, the birds have the potential to not visit the project area in search of food; however, since the areas will be restored to preconstruction condition, the birds should return; therefore, no impact is anticipated.

Additionally, the project is not likely to affect threatened and endangered species or habitat since the habitat for these species is not present.

If present in or near the project area, discuss potential impacts to any parks, recreational areas, forests preserves, grasslands preserves, wildlife refuges, wild or scenic rivers, karst faunal regions or zones, or nature preserves (federal, state or local; public or private):

Not applicable

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation
5.8: Cultural Resources

Have you notified the State Historic Preservation Officer (SHPO) at the Texas Historical Commission that you intend to use the NEPA process to comply with Section 106 of the National Historic Preservation Act?	☐ Yes ☒ No

Identify parties that were consulted regarding cultural resources, including Tribal Historic Preservation Officers (THPO), the federal Advisory Council on Historic Preservation (ACHP), local governments, or any other interested parties.

The THC and Office of Historic Preservation have yet to be contacted. Consultation letters will be sent upon initial review of this document.

Has an archeologist and/or an architectural historian performed a desktop review of the proposed project?	☒ Yes ☐ No

Identify cultural resources/historic properties (included in or eligible for inclusion in the National Register of Historic Places) within the proposed project's area of impact.

There are no previously recorded archaeological sites within the project area, one site is located within a one-kilometer radius of the project area. The site, 41BX2078, a historic well, is located approximately 0.98 kilometers to the southwest of the pipeline on Malone and Zarzamora Streets. Two previously recorded cultural resource surveys took place within one-kilometer of the project area, one on Cupples road conducted on behalf of the city in 2013 and one on Frio City Road near the Malone/Zarzamora Section, which was conducted in 2013.

A Historic Cemetery, the San Fernando Cemetery Number 2, is adjacent to the project area (the pipeline along S General McMullen between Castroville and Morelia), within the Area of Potential Effects. The cemetery was opened in 1921 and was administered by the San Fernando Cathedral Parish until 1942, when it became the responsibility of the archdiocese. The cemetery is not listed on the National Register of Historic Places. The desktop review is provided in Appendix B4.

Has an archeological and/or architectural survey been conducted?	☐ Yes ☒ No

If Yes, briefly summarize the results of the report(s) and attach them to Appendix B4, if applicable – exclude report from publicly available documents to protect location sensitive information.

Not Applicable

Does the project have the potential to affect significant cultural resources/historic properties?	☒ Yes ☐ No

If you have determined that historic properties will not be impacted, explain how this conclusion was reached.

The Atlas search revealed one historic cemetery within the APE and one archaeological site within one kilometer of the APE. Due to distance from the APE to the archaeological site, the proposed project should not negatively affect the archaeological the site due to distance as well as previous land disturbing actives within the ROWs. In

Section 5: Environmental Settings, Impacts and Mitigation
5.8: Cultural Resources

addition, the installation of water lines adjacent to the San Fernando Cemetery, Connection 2, would be conducted by directional boring, with the required bore pits located beyond the roadways that bordering the cemetery; therefore, no impact is anticipated.

Describe direct impacts (adverse and beneficial) of the project on cultural resources/historic properties. Specify temporary versus permanent impacts.

A potential direct impact to the cemetery could occur if activities associated with the cemetery exceeded the property's boundary, where the bore pits are to be located in association with Connection 2. As a Best Management Practice, during excavation of the bore pits, workers should be made aware of the proximity of the cemetery and informed to stop work if remains or burial items are encountered.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.9: Hazardous Materials

The TWDB does not fund the testing, remediation, removal, disposal, or related work for contaminated or potentially contaminated material.

Is there a Superfund Site in the project area or in an area associated with the proposed work (e.g., Superfund site upstream of project activities in a floodplain)?

No superfund sites were identified in the project area or in an area associated with the proposed work.

Was a site assessment conducted?	☐ Yes ☒ No
If a formal site assessment was conducted please attach the report and/or data search to Appendix B5.	☐ Attached ☒ Not Applicable

If an informal site assessment was conducted, please briefly describe methods and results. Make sure to identify any potential environmental hazards located on the site due to past site uses (e.g. soil contamination or proximity to nearby hazardous liquid or gas pipelines) :

An Environmental Radius Report was prepared by GeoSearch. The Environmental Radius Report reviewed 49 federal environmental, nine state environmental, and 23 other environmental databases. The databases reviewed, the American Society for Testing and Materials (ASTM)-required search distances from the approximate site boundaries, and the results of the search are below. Two leaking petroleum storage tanks (LPST) sites were noted, south of the pipeline along Brady and northwest of the South Zarzamora pipeline. Both sites are considered to be closed by the Texas Commission on Environmental Quality, one of the sites had all of the underground storage tanks removed. Two petroleum storage tanks (PST) are located along Cupples, the closest tank is approximately 577 feet from the closets pipeline, along Brady Blvd. Since the LPST sites have been closed by a regulatory entity and the PST is beyond 500 feet from the closest pipeline, there is no potential for an environmental hazard.

Federal Database	Distance (miles)	Listings
Brownfields Management System	0.5	0
Superfund Enterprise Management System – formerly CERCLIS	0.5	0
Delisted National Priorities List	1.0	0
Federal Engineering Institutional Control Sites	Site	0
Emergency Response Notification System	Site	0
Land Use Control Information System	0.5	0
Superfund Enterprise Management System Archived Sites – formerly NFRAP	0.5	0
RCRA Generator Facilities	0.1	0
RCRA Non-Generator Facilities	0.1	0
No Longer Regulated RCRA Generator Facilities	0.1	0
No Longer Regulated RCRA Non-CORRACTS TSD Facilities	0.5	0
National Priorities List	1.0	0

Section 5: Environmental Settings, Impacts and Mitigation

5.9: Hazardous Materials

The TWDB does not fund the testing, remediation, removal, disposal, or related work for contaminated or potentially contaminated material.

Proposed National Priorities List	1.0	0
Resource Conservation & Recovery Act - Corrective Action Facilities	1.0	0
Resource Conservation & Recovery Act - Treatment Storage & Disposal Facilities	0.5	0

State and Other Databases	Distance (miles)	Listings
Brownfields Site Assessments	0.5	0
Closed & Abandoned Landfill Inventory	0.5	0
Dry Cleaner Registration Database	0.25	0
Industrial and Hazardous Waste Sites	0.1	0
Innocent Owner/Operator Database	0.5	0
Leaking Petroleum Storage Tanks	0.5	2
Leaking Underground Storage Tanks on Tribal Lands (Region 6 States)	0.5	0
Municipal Solid Waste Landfill Sites	0.5	0
Permitted Industrial Hazardous Waste Sites	0.1	0
Petroleum Storage Tanks	0.1	2
Railroad Commission VCP and Brownfield Sites	0.5	0
State Superfund	1.0	0
Spills Listing	Site	0
Affected Property Assessment Reports	0.5	0
Dry Cleaner Remediation Program Sites	0.5	0
Groundwater Contamination Cases	Site	0
Industrial and Hazardous Waste Corrective Action Sites	1.0	0
Municipal Setting Designations	Site	0
Notice of Violations	Site	0
State Institutional/Engineering Control Sites	Site	0
Underground Storage Tanks on Tribal Lands (Region 6 States)	0.1	0
Voluntary Cleanup Program	0.5	0
Recycling Facilities	0.5	0

Section 5: Environmental Settings, Impacts and Mitigation

5.9: Hazardous Materials

The TWDB does not fund the testing, remediation, removal, disposal, or related work for contaminated or potentially contaminated material.

Mitigation Measures		
Mitigation Measures for Project Environmental Impacts?	☐ Yes	☒ Not applicable
If yes, list all mitigation measures in Section 5.14.		

Section 5: Environmental Settings, Impacts and Mitigation

5.10: Social Implications & Environmental Justice

Social Implications

Will land acquisition for the project require the use of eminent domain?	☐ Yes ☒ No
If yes, describe: Not applicable	
Will people or businesses be relocated as a result of this project?	☐ Yes ☒ No
If yes, describe the extent and nature of the relocations. Not applicable	
Will the project cause an increase in resident's monthly service rates?	☐ Yes ☒ No
If yes, provide an estimate of an average monthly residential bill and the anticipated monthly residential increase required to finance the debt.	Average Monthly User Rate: $ Anticipated Increase: $
Will the project require an increase in taxes to finance the debt?	☐ Yes ☒ No
If yes, provide an estimate of the increase required: Not applicable	

Environmental Justice

Area	Population	% Minority	% Below the Poverty Level/ Per Capita Income
State	28,701,845	58.5%	14.7% / $28,985
County: Bexar	1,986,049	72.6%	15.6% / $26,158
City: San Antonio	1,532,233	74.9%	18.6%/ $24,325
Project Area (0.5 mile buffer)	21,559	97%	62% / $14,490

Does the project area have a portion of the population, greater than the city, county or state average, who are members of a racial/ethnic minority category or who have incomes less than or equal to the state's official poverty level?	☒ Yes ☐ No

Impacts

Will the project disproportionally impact low-income or minority populations?	☐ Yes ☒ No
Please explain: A minority population is present within the project area (the Region of Influence [ROI] for this resource is 0.5 miles from the project site). The proposed action is anticipated to not negatively impact the health and human environment within the ROI and beyond. Additionally, the proposed action will improve reliability of drinking water to the minority and low income population, improving conditions. Based upon the beneficial impact environmental justice analysis is not required.	

Section 5: Environmental Settings, Impacts and Mitigation

5.10: Social Implications & Environmental Justice

Mitigation Measures		
Mitigation Measures for Project Environmental Impacts?	☐ Yes	☒ Not applicable
If yes, list all mitigation measures in Section 5.14.		

Section 5: Environmental Settings, Impacts and Mitigation
5.11: Other Potential Impacts or Requirements

1. **Air Quality:** Is the project in a maintenance or non-attainment area for any priority air pollutant under the federal Clean Air Act?	☒ Yes	☐ No

If yes, describe the impact the project will have on ambient air quality.

Bexar County is listed as a county that is currently in non-attainment for 8-hour Average Ozone Concentrations. as of September 24, 2018. By September 24, 2019 Transportation Conformity must be approved. There may be short-term localized effects to air quality (e.g. increase in dust, diesel exhaust) during construction in the immediate area adjacent to the project. However, the project is not likely to significantly impact ambient air quality within the project area.

2. **Scenic Views**: Will the project impact scenic views or vistas during construction or operation?	☐ Yes	☒ No

If yes, indicate which scenic views or vistas will be impacted and discuss adverse impacts. Specify temporary versus permanent impacts.

Not applicable

3. **Traffic:** Will construction of this project involve rerouting or controlling traffic?	☒ Yes	☐ No

If yes, describe traffic changes and how long traffic will be disrupted:

During the construction of this project, traffic control activities may be required to ensure the safety of the contractors working on the line installation since the project area is within existing ROWs. No permanent impacts to traffic are anticipated as a result of this project.

4. **Other Potential Impacts:** If the project may cause any adverse impacts not addressed by items 1-3, identify and discuss them here (e.g., odor, prevailing winds, noise, blasting, night work, etc.):

The proposed project may increase noise within the project area during construction. Impacts due to noise during construction should be temporary and only occurs during working hours.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts?	☐ Yes	☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.12: Secondary and Cumulative Impacts

Considering resources that your project will impact, identify any past, present or reasonably foreseeable future projects which impact these same resources. This answer will provide important contextual information.

Secondary impacts associated with the proposed action have the potential to include an increase in development within undeveloped parcels within Pressure Zone 823 since the area will have a more reliable water source. The increase in development could require modification to existing land use and requiring zoning. The increase in development has the potential to increase employment opportunities, disturb soils, and increase impervious cover. The increase in employment has the potential to increase the per capita income within the project area beneficially impacting the project area. No indirect impact to environmental justice populations or demographics changes of the study area would be expected as a result of the proposed action. Additionally the increase in development could disturb soil and increase impervious cover; however, during construction of these developments, local and state stormwater requirements would be in effect and protecting water quality. The increase in runoff caused by the potential increase in impervious cover should be managed by the existing drainage channel that is located along the northern access road of United States Highway 90. No impact to surface water would be anticipated.

Mitigation Measures

Mitigation Measures for Project Environmental Impacts? ☐ Yes ☒ Not applicable

If yes, list all mitigation measures in Section 5.14.

Section 5: Environmental Settings, Impacts and Mitigation

5.13: Standard Mitigation, Precautionary Measures and Best Management Practices

Describe any standard mitigation, precautionary measures and best management practices to be used during project construction (e.g., storm water pollution prevention plan, re-vegetation, dust and siltation control, establish original grades in floodplains, etc.).

A Stormwater Pollution Prevention Plan (SWPPP) would be developed for the project and the project area will be restored to pre-construction conditions.

Section 5: Environmental Settings, Impacts and Mitigation

5.14: Mitigation Measures

Provide a list of potential adverse impacts of the proposed project and a description of how those impacts will be avoided, minimized, or mitigated. This list will be used to develop conditions for the environmental determination issued by the TWDB. Please ensure the information is consistent with what was provided to regulatory agencies and incorporates applicable agency recommendations. When responding to recommendations provided by regulatory agencies, identify which are feasible and which will not be implemented.

Impact:	Recommended/Required by What Entity? (if applicable)	Mitigation Measures Description:

Section 5: Environmental Settings, Impacts and Mitigation
5.15: References

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Section 5: Environmental Settings, Impacts and Mitigation

5.15: References

Section 6: Public Participation

PUBLIC MEETING

1. Does the project or activities involve a probable or known public controversy? ☐ Yes ☒ No
   If yes, please contact your TWDB environmental reviewer for the public hearing guidance.

2. **Notify the Public:** Public participation is required to inform the public of potential social, economic or environmental impacts of the proposed project. The applicant must notify the public of the meeting by advertisement in a newspaper of general circulation within the project area at least thirty (30) days prior to the date of the meeting. The 30-day period may count either the day of the advertisement or the day of the meeting, but not both.

3. **Notify requisite agencies and interested parties:** A written notice of the meeting should be sent to any state, federal or local agency, government, organization or individual that has an interest in the proposed project.

4. **Floodplain/Wetland:** If the proposed action is located in a wetland and/or the 100-year floodplain (500-yr floodplain for critical actions), you are required to notify the public and involve the affected and interested public in the decision making process. Incorporate a discussion of alternatives to construction in the floodplain/wetlands, potential impacts and proposed mitigation measures into the public meeting.

5. **Public Meeting Notice Includes:**
   - ☐ Published 30 days in advance of meeting
   - ☐ Date, time and place of meeting
   - ☐ Brief description of project & floodplain/wetland notice (if applicable)
   - ☐ Cost, including estimated monthly bill and any connection fee, tax or surcharge
   - ☐ Convenient local source for EID (available at least 30 days prior to meeting)
   - ☐ Statement of Purpose: "One of the purposes of this meeting is to discuss the potential environmental impacts of the project and alternatives to it."

Example Public Meeting Notice:

A public meeting is being held on _____(day, date)_____at __(time)___ at_____(location, address)_____ to discuss the _____city/district_____'s proposed project to _____(project description)_____ at _____(project location)_____ . One of the purposes of this hearing is to discuss the potential environmental impacts of the project and alternatives to it. The total estimated cost of the project is $_____. The estimated monthly bill for a typical resident is currently_____. A user rate increase of _____will be required to finance this project. *In addition, a connection fee/tax/surcharge/other fee of $_____will be required.* An application for financial assistance for the project has been *(will be)* filed with the Texas Water Development Board, P.O. Box 13231, Austin, Texas, 78711-3231. An Environmental Information Document for the project has been prepared which will be available for public review at _____(city hall/district offices)___ at_____(address)____between the hours of _____(hours)____for 30 days following the date of this notice. Written comments on the proposed project may be sent to _____(address)_____or to the Texas Water Development Board.

Floodplain/Wetland: Incorporate into Public Meeting Notice for projects in a floodplain or wetland
This project involves construction (a) of a critical facility in the 500-year floodplain, (b) in the 100-year floodplain, or (c) construction located in a wetland. Alternatives to construction in a floodplain/wetland, potential impacts on floodplains/wetlands and proposed mitigation measures will be addressed during the public meeting.

6. **Public Meeting Documentation**
   - ☐ Publisher's affidavit and a copy of the notice
   - ☐ Statement signed by applicant: meeting was held in conformance with the Public Meeting Notice.
   - ☐ List of witnesses
   - ☐ Written summary of the meeting

7. **Were adverse comments about any aspect of the project received?** ☐ Yes ☐ No
   If yes, describe how they were resolved:

Section 7: Agency Coordination

When coordinating with an agency, send hard copies by public carrier with delivery confirmation requested. Retain copies of those confirmations. When a response is not received from an agency, documentation of the delivery must be included with the coordination materials submitted to the TWDB. All agency coordination should be included in Appendix C and should be presented in the same order as the following table.

Mailing addresses for the following agencies are provided online at:
http://www.twdb.texas.gov/financial/instructions/doc/addresses.pdf

Uniform Project Notification Requirements		
Bureau of Reclamation	☐ Sent ☐ *Response* (Not required)	Page: C-
Bureau of Land Management	☐ Sent ☐ *Response* (Not required)	Page: C-
Intergovernmental Review: Depending on the nature and location of the proposed project, notification should be sent to the City Mayor, County Judge or both.	☐ Sent ☐ *Response* (Not required)	Page: C-
Uniform Agency Coordination Requirements		
Texas Historical Commission	☐ Sent ☐ Response	Page: C-
U.S. Army Corps of Engineers	☐ Sent ☐ Response	Page: C-
Texas Parks and Wildlife Department Wildlife Habitat Assessment Program	☐ Sent ☐ Response ☐ Response to TPWD recommendations indicating which recommendations will be implemented.	Page: C-

Circumstantial Requirements

Use the following questions to determine if coordination is required regarding potential impacts to the resource identified. If Yes, provide the page number for coordination materials.

Will the project adversely affect federally listed threatened or endangered species or their critical habitat? ☐ No effect (no coordination required) ☐ Not likely to adversely affect ☐ Likely to adversely affect	U.S. Fish and Wildlife Service Division of Ecological Services If not likely, concurrence that adverse effects have been adequately mitigated **recommended** If likely, formal Section 7 consultation **required** Page: C-
Will the project impact prime and important farmlands? ☐ Yes ☐ No ☐ Exempt (pipeline project, existing site)	U.S. Department of Agriculture Natural Resources Conservation Service If Yes, Page: C-

Section 7: Agency Coordination	
Is the project located within or directly adjacent to a national forest or grasslands? Does the project share a surface water connection that may impact these resources? ☐ Yes ☐ No	U.S. Forest Service National Forest or Grasslands If Yes, Page: C-
Is the project located within or directly adjacent to National Park Service Lands? Does the project share a surface water connection that may impact these resources? Does the proposed project have the potential to impact view sheds, natural sounds, night skies, or air quality of any NPS units or National Historic Landmarks? ☐ Yes ☐ No	National Park Service Environmental Quality Division If Yes, Page: C-
Wild and Scenic Rivers: coordination is required for all projects located in one of the following counties: El Paso, Brewster, Crane, Crocket, Culberson, Edwards, Hudspeth, Jeff Davis, Loving, Pecos, Presidio, Reeves, Schleicher, Sutton, Terrell, Upton, Val Verde, Ward and Winkler. ☐ Yes ☐ No	National Park Service Big Bend National Park, Rio Grande Wild & Scenic River If Yes, Page: C-
Is the project site within the floodplain or adjacent to the channel of the Rio Grande River OR located in, or directly adjacent to, the IBWC's flood control projects in Texas? ☐ Yes ☐ No	International Boundary and Water Commission (U.S. Section) Environmental Management Division If Yes, Page: C-
Is the project located within the contributing zone (stream flow source) or recharge zone of the Edwards Aquifer? ☐ Yes ☐ No	Environmental Protection Agency Groundwater/UIC Section (6WQ-SG) If Yes, Page: C-
Is the project located in, or directly adjacent to, tidal waters or tidally influenced wetlands? ☐ Yes ☐ No	National Marine Fisheries Service Habitat Conservation Division If Yes, Page: C-
Is the project located in a coastal management zone? ☐ Yes ☐ No	General Land Office If Yes, Page: C-
Will the proposed project affect any known organizations or private entities? ☐ Yes ☐ No	Coordination with the affected party(s) is required. If Yes, Page: C-

Section 7: Agency Coordination

<u>For communities that participate in the NFIP:</u> Is the project is located in the 100-year floodplain (1% chance of flooding)? ☐ Yes ☐ No Does the project involve construction of a critical facility (WTP, WWTP,etc.) in the 500-year floodplain (0.2% chance of flooding)? ☐ Yes ☐ No **Any construction in the 100-year floodplain and construction of critical facilities in the 500-year floodplain requires a Floodplain Development Permit. Floodplain Development Permits must be acquired prior to TWDB approval of engineering plans and specifications and release of construction funds.	National Flood Insurance Program Local Floodplain Administrator If Yes, Page: C-
<u>For communities that DO NOT participate in the NFIP:</u> Does the project involve construction in the 100-year floodplain or construction of a critical facility in the 500-year floodplain? ☐ Yes ☐ Exempt: strictly pipeline installation ☐ No ☐ Undetermined: no maps available to make determination **If the project is not exempt and is (a) located in the 100 year floodplain, (b) involves construction of a critical facility in the 500-year floodplain or (c) no floodplain maps are available for the project area, a Flood Risk Assessment must be prepared.	<u>Flood Risk Assessment</u> The assessment should include an elevation study, risk of flooding determination, and recommendation (build, no build, special accommodations). The assessment must be sealed by a licensed engineer. If Yes, Page: C-

Section 7: Agency Coordination

Sample Agency Notification Letter

DATE

CONTACT NAME
ADDRESS
See section 7 for agency contact information

RE: Project Notification: Please Review - No Response Required

Dear CONTACT:

The APPLICANT is pursuing federal funding through the Texas Water Development Board's FUNDING PROGRAM for the proposed PROJECT NAME (TWDB PROJECT NUMBER). The purpose of this notification is to identify if the proposed project will have any potential conflicts with projects being implemented by your agency.

Attached to this letter is a document containing general contact information, project description and project maps. A copy of the full Environmental Information Document (EID), which includes background environmental information and a robust analysis of potential impacts, is available upon request.

If you have any questions or need additional information, please contact me at (tel:)_____ or by e-mail at _____.

Sincerely,
APPLICANT/CONSULTANT

Enclosure: Section 1 (General Information), Section 3 (Project Description) and Appendix A (Standard Maps) from the EID.

Section 7: Agency Coordination

Sample Agency Coordination Letter

DATE

CONTACT NAME
ADDRESS
See section 7 for agency contact information

RE: NEPA Review Requested for Federally Funded Project
Environmental Information Document Available
Consultation#_____, Date_____
_____(Project Name)_____
_____(Applicant)_____
_____(Project Location)_____

Dear CONTACT:

The APPLICANT is pursuing federal funding through the Texas Water Development Board's FUNDING PROGRAM for the proposed PROJECT NAME (TWDB PROJECT NUMBER). The purpose of this coordination is to identify potential environmental and permitting issues: specifically, permits or mitigative measures required to ensure compliance with environmental regulations specific to your agency's area of jurisdiction.

The attached Environmental Information Document (EID) provides a project description, project maps, background environmental information, a robust analysis of potential impacts and a list of all agencies with whom we are coordinating. Sections particularly relevant to your agency include: (use the table of relevant sections by agency provided on the next page to complete this section).

Include a brief description of mitigation measures that will be implemented to reduce impacts to resources under the agency's area of jurisdiction.

Recommended or required actions identified through this coordination, including permits, will be considered for inclusion as conditions in the TWDB's environmental determination. Please cite the relevant authority (statue/regulation) for recommendations.

We request your concurrence with our determination that_____. If you have any questions or need any additional information, please contact me at (tel:)_____ or by e-mail at _____.

Sincerely,
APPLICANT

Enclosure: EID (access to the EID may also be provided by including a link where the EID can be downloaded).

Section 7: Agency Coordination

Relevant Sections by Agency

(for the purposes of this EID, not intended to be all inclusive)

Uniform Project Notification Requirements	
Bureau of Reclamation, Bureau of Land Management, and Local Council of Governments	Section 1: General Information Section 3: Project Description Appendix A: Standard Maps
Uniform Agency Coordination Requirements	
Texas Historical Commission	Section 1: General Information Section 3: Project Description Section 5.8: Cultural Resources Appendix A: Standard Maps Appendix B4: Cultural Resources Report (if applicable)
U.S. Army Corps of Engineers	Section 1: General Information Section 3: Project Description Section 5.4: Water Resources Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Appendix A: Standard Maps Appendix B2: Wetlands, Streams and Waters of the U.S. (if applicable)
Texas Parks and Wildlife Department & U.S. Fish and Wildlife Service	Section 1: General Information Section 3: Project Description Section 5.1: Land Use Section 5.4: Water Resources Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources
Circumstantial Requirements	
U.S. Department of Agriculture Natural Resources Conservation Service	Section 1: General Information Section 3: Project Description Section 5.1: Land Use Section 5.3: Soils & Prime and Important Farmlands Appendix A: Standard Maps Appendix B1: Soils & Prime and Important Farmlands

Section 7: Agency Coordination

Relevant Sections by Agency

(for the purposes of this EID, not intended to be all inclusive)

U.S. Forest Service National Forest or Grasslands	Section 1: General Information Section 3: Project Description Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources
National Park Service Environmental Quality Division	Section 1: General Information Section 3: Project Description Section 5.4: Water Resources Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources
National Park Service Big Bend National Park	Section 1: General Information Section 3: Project Description Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources
International Boundary and Water Commission (U.S. Section) Environmental Management Division	Section 1: General Information Section 3: Project Description Section 5.4: Water Resources Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Appendix A: Standard Maps
Environmental Protection Agency Groundwater/UIC Section (6WQ-SG)	Section 1: General Information Section 3: Project Description Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources

Section 7: Agency Coordination Relevant Sections by Agency (for the purposes of this EID, not intended to be all inclusive)	
National Flood Insurance Program Local Floodplain Administrator & Texas Water Development Board Flood Mitigation Planning Division	Section 1: General Information Section 3: Project Description Section 5.5: Topography and Floodplains Appendix A: Standard Maps
National Marine Fisheries Service Habitat Conservation Division	Section 1: General Information Section 3: Project Description Section 5.5: Topography and Floodplains Section 5.6: Wetlands, Streams and Waters of the U.S. Section 5.7: Biological Resources Appendix A: Standard Maps Appendix B3: Biological Resources
General Land Office	Section 1: General Information Section 3: Project Description Appendix A: Standard Maps

Section 8: Certification

CERTIFICATION

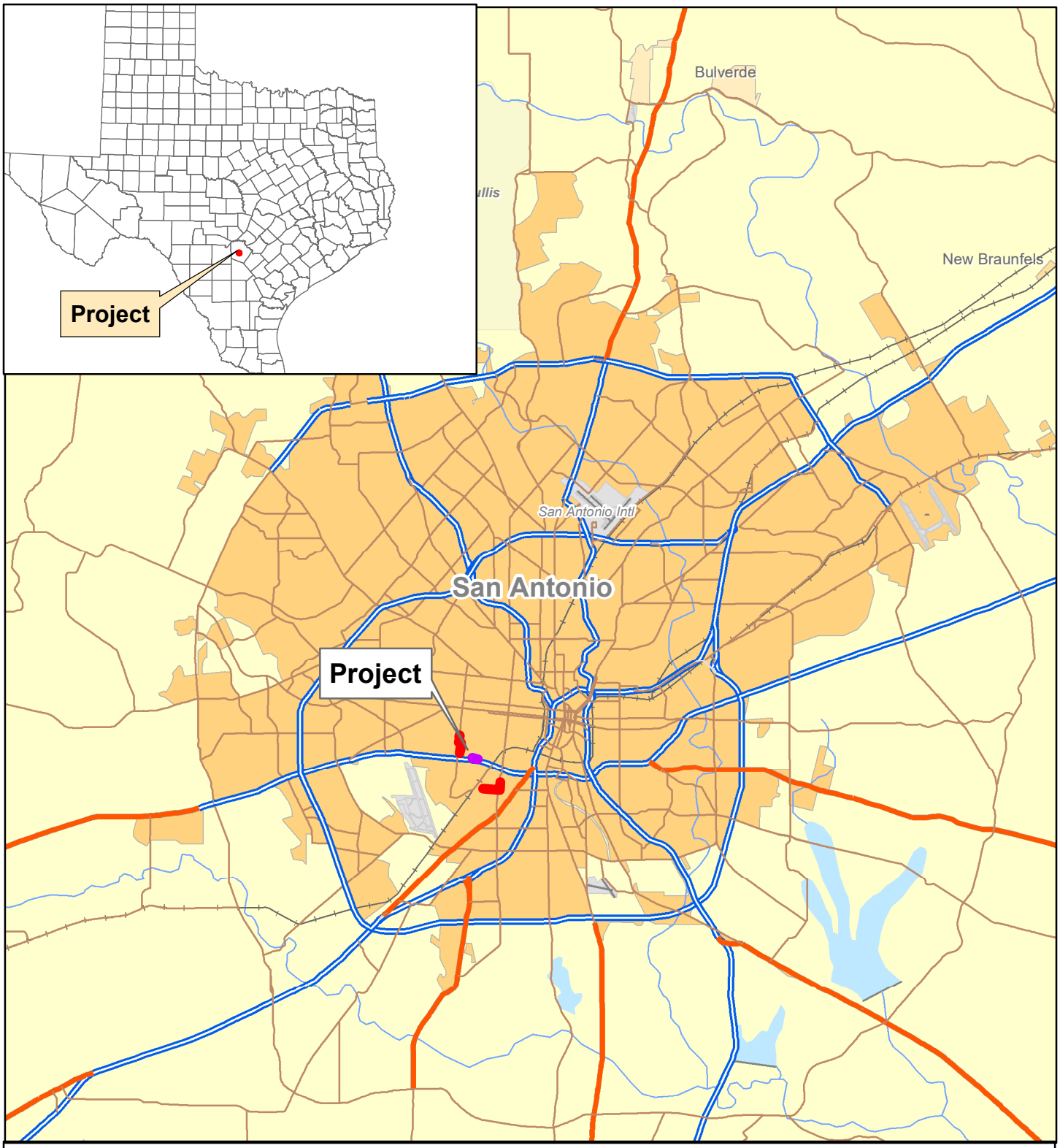
I hereby certify that the information contained in this document is accurate and complete to the best of my knowledge, and that this document describes the complete project. There are no other projects, stages or components other than those described in this document, which are related to the project as connected actions or phased actions.

Signature_____ Date_____

Title_____(*project manager for the preparation of the EID*)_____

Section 9: Appendices

APPENDIX A
Standard Maps



Legend

New Lines

Replacement Line

5 2.5 0 5 Miles

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 5 miles
TBPE Firm No.	F-3272
Date:	July 2019

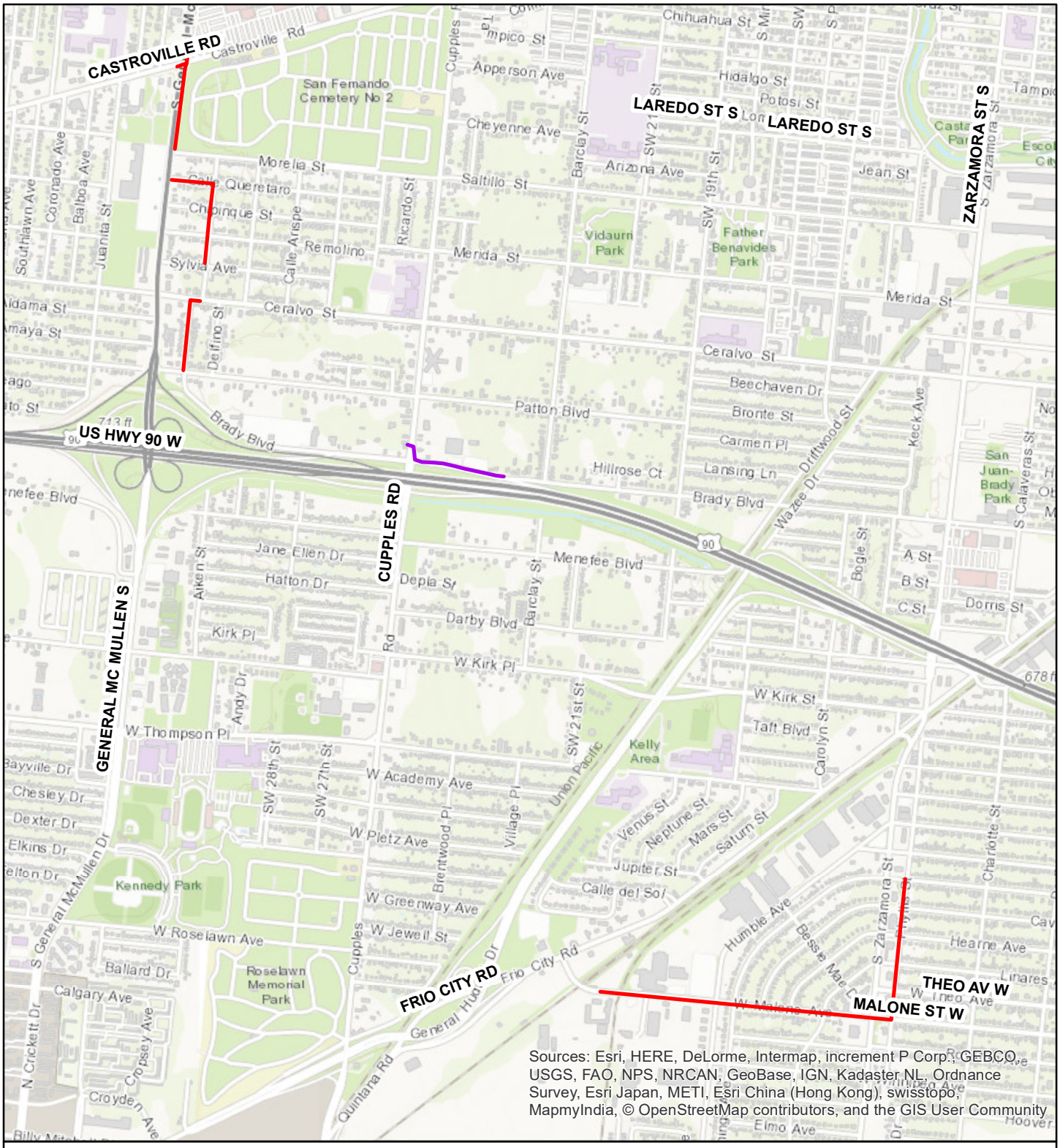
Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Project Location

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

1



Legend

New Lines

Replacement Line

1,500 750 0 1,500 Feet

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 1,500 ft
TBPE Firm No.	F-3272
Date:	July 2019

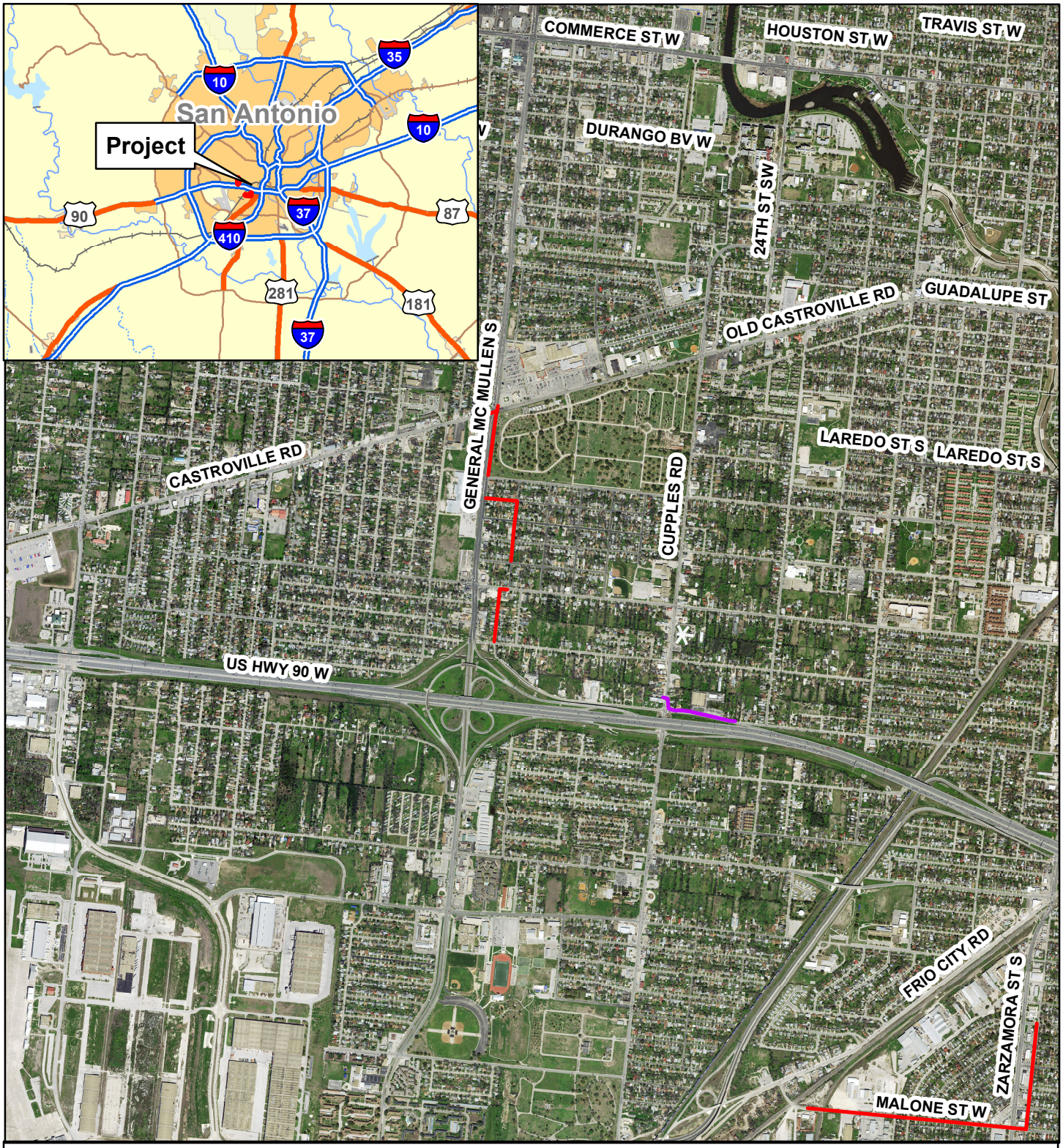
Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Topographical Map

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

2



Legend

- New Lines
- Replacement Line

2,000 1,000 0 2,000 Feet

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 2,000 ft
TBPE Firm No.	F-3272
Date:	July 2019

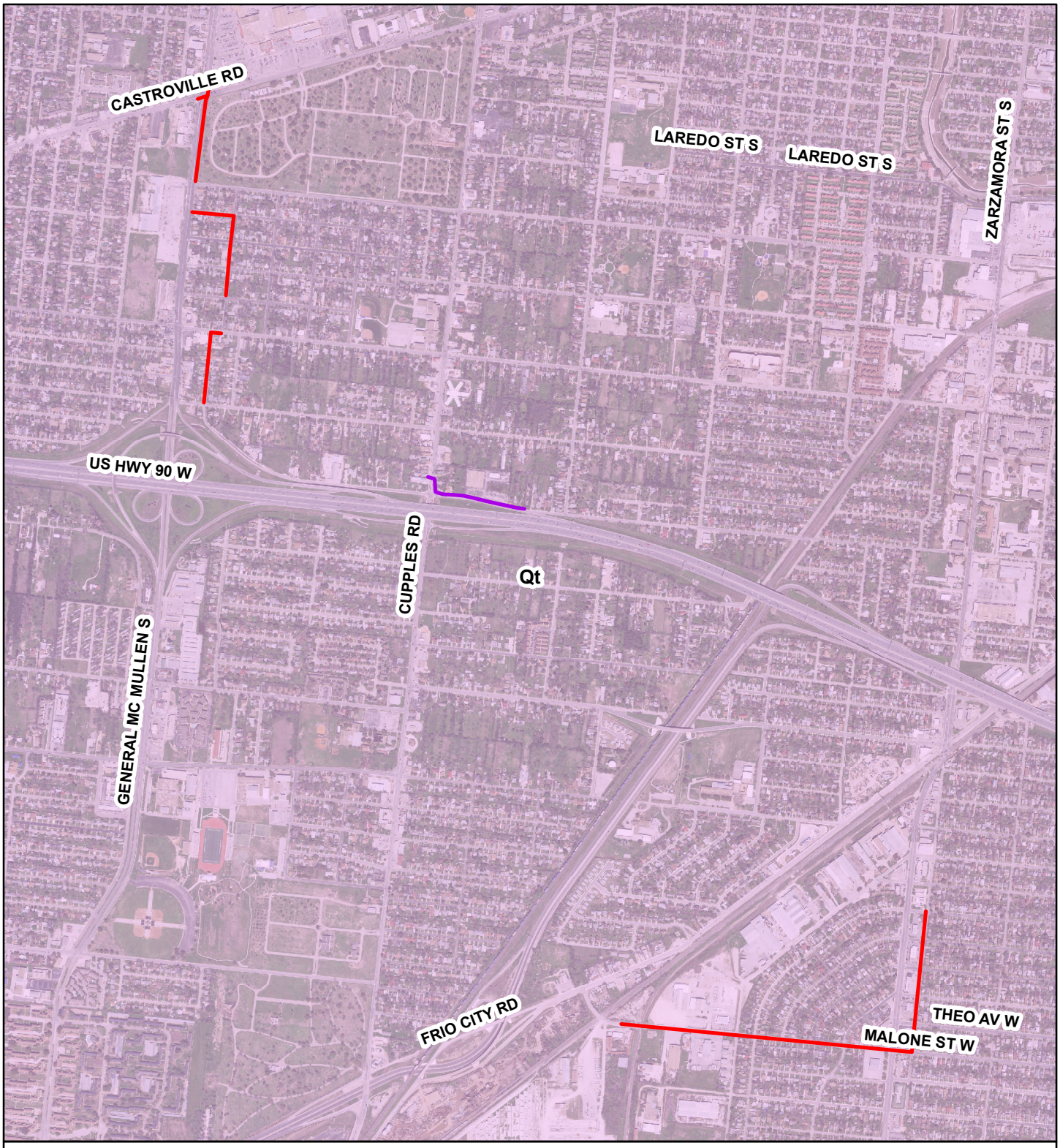
Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Project Footprint

HWY 90 and General McMullen Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

3



Legend

- New Lines
- Replacement Line
- Geologic Mapping Unit

1,500 750 0 1,500 Feet

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 1,500 ft
TBPE Firm No.	F-3272
Date:	July 2019

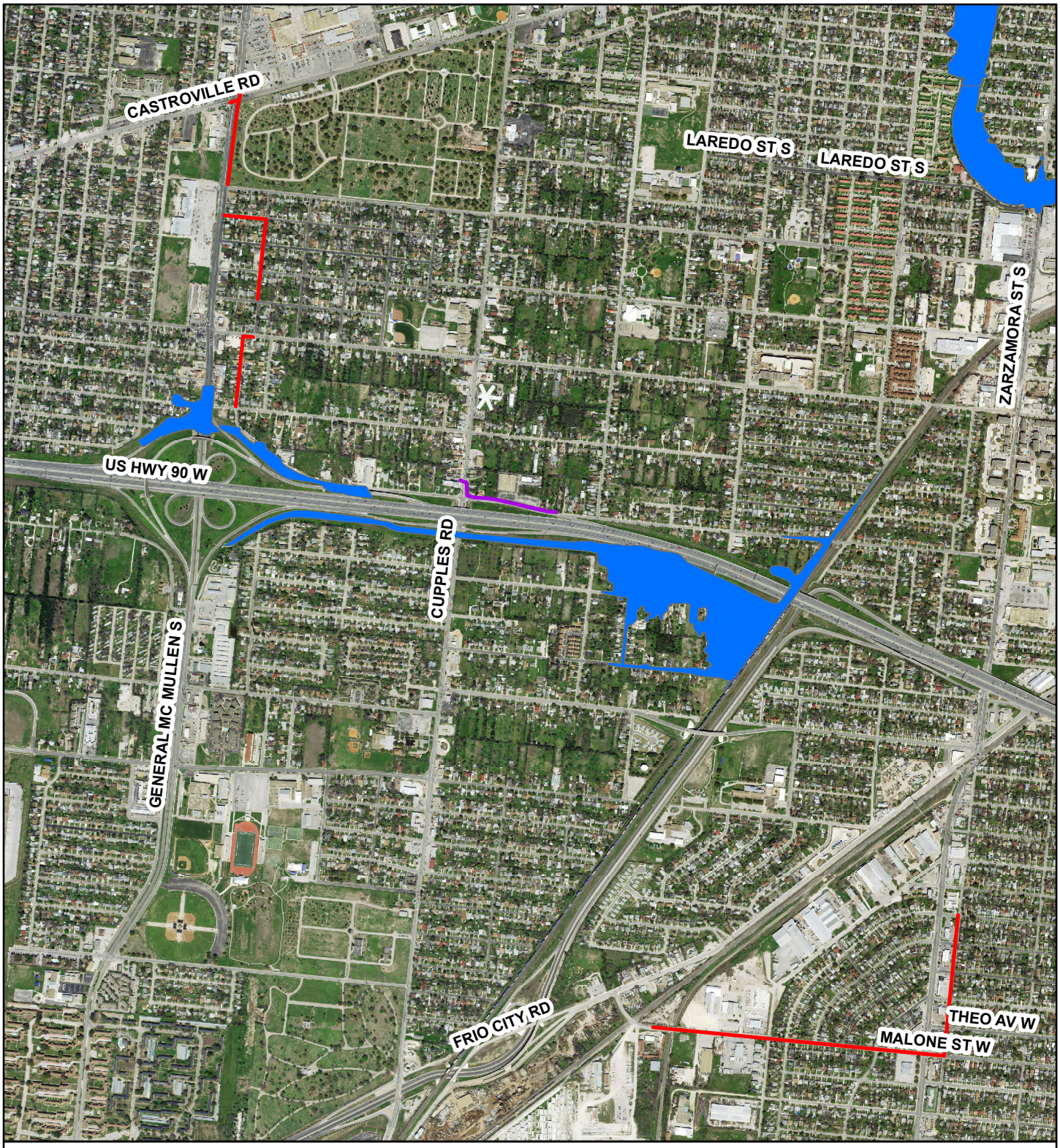
Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Geologic Map

HWY 90 and General McMullen Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

4



Legend

- New Lines
- Replacement line
- NWI Features
- 100-Year Floodplain

1,500 750 0 1,500 Feet

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 1,500 ft
TBPE Firm No.	F-3272
Date:	July 2019

Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

FEMA and NWI Map

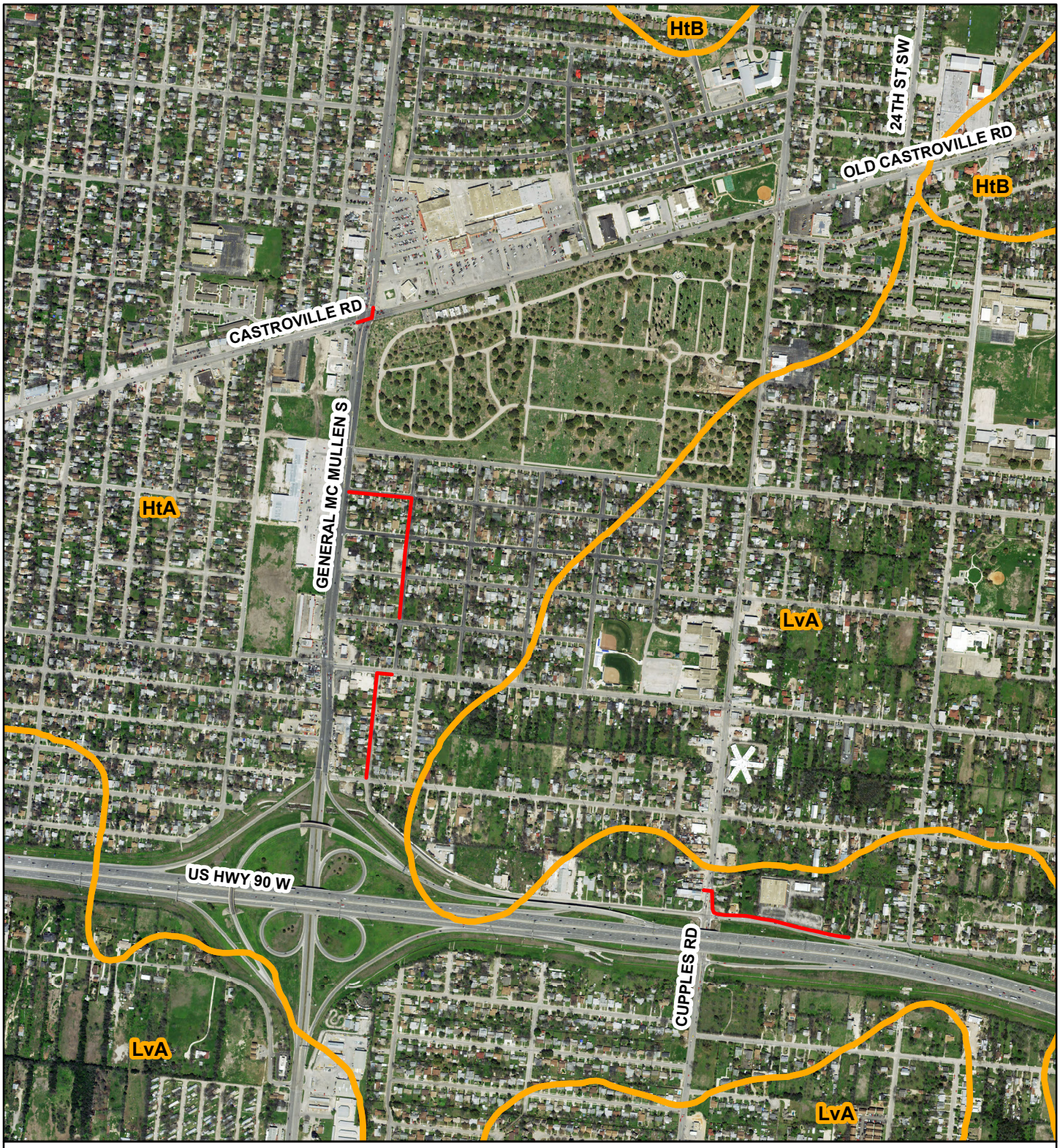
HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

5

APPENDIX B
Environmental Setting, Impacts, and Mitigation Attachments

Appendix B1
Soils & Prime and Important Farmland (Section 5.3)



Legend

Project

USDA Soil Survey

1,000 500 0 1,000

Feet

N

Project Mngr:	JTP
Drawn By:	KJM
Checked By:	JTP
Approved By:	JH

Project No.	90197228
Scale:	1 in = 1,000 ft
TBPE Firm No.	F-3272
Date:	July 2019

Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Soils Map

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

3

Soil Map—Bexar County, Texas

Map Scale: 1:13,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 150 300 600 900

Feet
0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 22, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 15, 2014—Nov 17, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HtA	Branyon clay, 0 to 1 percent slopes	113.1	71.9%
LvA	Lewisville silty clay, 0 to 1 percent slopes	44.2	28.1%
Totals for Area of Interest		**157.3**	**100.0%**

Prime and other Important Farmlands

This table lists the map units in the survey area that are considered important farmlands. Important farmlands consist of prime farmland, unique farmland, and farmland of statewide or local importance. This list does not constitute a recommendation for a particular land use.

In an effort to identify the extent and location of important farmlands, the Natural Resources Conservation Service, in cooperation with other interested Federal, State, and local government organizations, has inventoried land that can be used for the production of the Nation's food supply.

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil quality, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. Prime farmland is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

For some of the soils identified in the table as prime farmland, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures.

A recent trend in land use in some areas has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

Unique farmland is land other than prime farmland that is used for the production of specific high-value food and fiber crops, such as citrus, tree nuts, olives, cranberries, and other fruits and vegetables. It has the special combination of soil quality, growing season, moisture supply, temperature, humidity, air drainage, elevation, and aspect needed for the soil to economically produce sustainable high yields of these crops when properly managed. The water supply is dependable and of adequate quality. Nearness to markets is an additional consideration. Unique farmland is not based on national criteria. It commonly is in areas where there is a special microclimate, such as the wine country in California.

In some areas, land that does not meet the criteria for prime or unique farmland is considered to be *farmland of statewide importance* for the production of food, feed, fiber, forage, and oilseed crops. The criteria for defining and delineating farmland of statewide importance are determined by the appropriate State agencies. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Some areas may produce as high a yield as prime farmland if conditions are favorable. Farmland of statewide importance may include tracts of land that have been designated for agriculture by State law.

In some areas that are not identified as having national or statewide importance, land is considered to be *farmland of local importance* for the production of food, feed, fiber, forage, and oilseed crops. This farmland is identified by the appropriate local agencies. Farmland of local importance may include tracts of land that have been designated for agriculture by local ordinance.

Report—Prime and other Important Farmlands

Prime and other Important Farmlands–Bexar County, Texas		
Map Symbol	**Map Unit Name**	**Farmland Classification**
HtA	Branyon clay, 0 to 1 percent slopes	All areas are prime farmland
LvA	Lewisville silty clay, 0 to 1 percent slopes	All areas are prime farmland

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 22, Sep 14, 2018

Appendix B2
Wetlands, Streams, & Waters of the U.S
(Section 5.6)

No additional attachments included for Appendix B2 - Wetlands, Streams & Waters of the U.S. (Section 5.6).

Appendix B3
Biological Resources (Section 5.7)

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Austin Ecological Services Field Office
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http://www.fws.gov/southwest/es/AustinTexas/
http://www.fws.gov/southwest/es/EndangeredSpecies/lists/

In Reply Refer To: February 20, 2020
Consultation Code: 02ETAU00-2019-SLI-1487
Event Code: 02ETAU00-2020-E-01737
Project Name: Highway 90 and General McMullen Pressure Zone Integration

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that *may* occur within the county of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

Please note that new information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Also note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of federally listed as threatened

or endangered species and to determine whether projects may affect these species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

While a Federal agency may designate a non-Federal representative to conduct informal consultation or prepare a biological assessment, the Federal Agency must notify the Service in writing of any such designation. The Federal agency shall also independently review and evaluate the scope and content of a biological assessment prepared by their designated non-Federal representative before that document is submitted to the Service.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by a federally funded, permitted or authorized activity, the agency is required to consult with the Service pursuant to 50 CFR 402. The following definitions are provided to assist you in reaching a determination:

- *No effect* - the proposed action will not affect federally listed species or critical habitat. A “no effect” determination does not require section 7 consultation and no coordination or contact with the Service is necessary. However, if the project changes or additional information on the distribution of listed or proposed species becomes available, the project should be reanalyzed for effects not previously considered.
- *May affect, but is not likely to adversely affect* - the project may affect listed species and/or critical habitat; however, the effects are expected to be discountable, insignificant, or completely beneficial. Certain avoidance and minimization measures may need to be implemented in order to reach this level of effect. The Federal agency or the designated non-Federal representative should consult with the Service to seek written concurrence that adverse effects are not likely. Be sure to include all of the information and documentation used to reach your decision with your request for concurrence. The Service must have this documentation before issuing a concurrence.
- *Is likely to adversely affect* - adverse effects to listed species may occur as a direct or indirect result of the proposed action. For this determination, the effect of the action is neither discountable nor insignificant. If the overall effect of the proposed action is beneficial to the listed species but the action is also likely to cause some adverse effects to individuals of that species, then the proposed action “is likely to adversely affect” the listed species. The analysis should consider all interrelated and interdependent actions. An “is likely to adversely affect” determination requires the Federal action agency to initiate formal section 7 consultation with our office.

Regardless of the determination, the Service recommends that the Federal agency maintain a complete record of the evaluation, including steps leading to the determination of effect, the qualified personnel conducting the evaluation, habitat conditions, site photographs, and any other related information. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

Migratory Birds

For projects that may affect migratory birds, the Migratory Bird Treaty Act (MBTA) implements various treaties and conventions for the protection of these species. Under the MBTA, taking, killing, or possessing migratory birds is unlawful. Migratory birds may nest in trees, brushy areas, or other areas of suitable habitat. The Service recommends activities requiring vegetation removal or disturbance avoid the peak nesting period of March through August to avoid destruction of individuals, nests, or eggs. If project activities must be conducted during this time, we recommend surveying for nests prior to conducting work. If a nest is found, and if possible, the Service recommends a buffer of vegetation remain around the nest until the young have fledged or the nest is abandoned.

For additional information concerning the MBTA and recommendations to reduce impacts to migratory birds please contact the U.S. Fish and Wildlife Service Migratory Birds Office, 500 Gold Ave. SW, Albuquerque, NM 87102. A list of migratory birds may be viewed at https://www.fws.gov/birds/management/managed-species/migratory-bird-treaty-act-protected-species.php. Guidance for minimizing impacts to migratory birds for projects including communications towers can be found at: https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/communication-towers.php. Additionally, wind energy projects should follow the wind energy guidelines

https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/wind-energy.php) for minimizing impacts to migratory birds and bats.

Finally, please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/eagles.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Austin Ecological Services Field Office
10711 Burnet Road, Suite 200
Austin, TX 78758-4460
(512) 490-0057

Project Summary

Consultation Code: 02ETAU00-2019-SLI-1487

Event Code: 02ETAU00-2020-E-01737

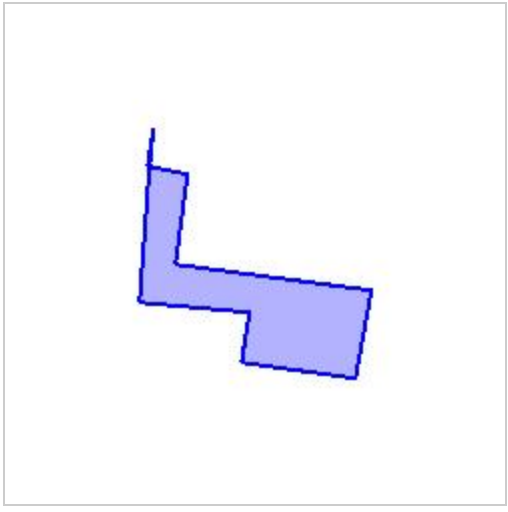
Project Name: Highway 90 and General McMullen Pressure Zone Integration

Project Type: WATER SUPPLY / DELIVERY

Project Description: Project will install 12 inch water lines replacing the existing 6-inch along Brady Boulevard, connecting the existing 12-inch on Cupples Road to the existing 20-inch on Barclay Street. Two 12-inch water lines along General McMullen Drive connecting the existing 12-inch on Patton Boulevard to the existing 12-inch on General McMullen near Queretaro Street; a second new 12-inch water line connecting the existing 12-inch on Morelia to the existing 12-inch on Castroville Road. A new 12- inch water line connecting the existing 8-inch on Frio City Road to the existing 12-inch on Jennings Ave. Currently, PZ 823 operates completely independently of PZ 828.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/29.406460269000064N98.55297869275455W



Counties: Bexar, TX

Endangered Species Act Species

There is a total of 24 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 3 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Golden-cheeked Warbler (=wood) *Dendroica chrysoparia* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/33	Endangered
Least Tern *Sterna antillarum* Population: interior pop. No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ Wind Energy Projects Species profile: https://ecos.fws.gov/ecp/species/8505	Endangered
Piping Plover *Charadrius melodus* Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is **final** critical habitat for this species. Your location is outside the critical habitat. This species only needs to be considered under the following conditions: ▪ Wind Energy Projects Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ Wind Energy Projects Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane *Grus americana* Population: Wherever found, except where listed as an experimental population There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/758	Endangered

Amphibians

NAME	STATUS
San Marcos Salamander *Eurycea nana* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6374	Threatened
Texas Blind Salamander *Typhlomolge rathbuni* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5130	Endangered

Fishes

NAME	STATUS
Fountain Darter *Etheostoma fonticola* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5858	Endangered

Clams

NAME	STATUS
Texas Fatmucket *Lampsilis bracteata* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9041	Candidate
Texas Pimpleback *Quadrula petrina* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8966	Candidate

Insects

NAME	STATUS
[no Common Name] Beetle *Rhadine exilis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6942	Endangered
[no Common Name] Beetle *Rhadine infernalis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3804	Endangered
Comal Springs Dryopid Beetle *Stygoparnus comalensis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7175	Endangered
Comal Springs Riffle Beetle *Heterelmis comalensis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3403	Endangered
Helotes Mold Beetle *Batrisodes venyivi* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1149	Endangered

Arachnids

NAME	STATUS
Braken Bat Cave Meshweaver *Cicurina venii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7900	Endangered
Cokendolpher Cave Harvestman *Texella cokendolpheri* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/676	Endangered
Government Canyon Bat Cave Meshweaver *Cicurina vespera* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7037	Endangered
Government Canyon Bat Cave Spider *Neoleptoneta microps* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/553	Endangered
Madla Cave Meshweaver *Cicurina madla* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2467	Endangered
Robber Baron Cave Meshweaver *Cicurina baronia* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2361	Endangered

Crustaceans

NAME	STATUS
Peck's Cave Amphipod *Stygobromus (=Stygonectes) pecki* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8575	Endangered

Flowering Plants

NAME	STATUS
Bracted Twistflower *Streptanthus bracteatus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2856	Candidate
Texas Wild-rice *Zizania texana* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/805	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Last Update: 7/17/2019

BEXAR COUNTY

AMPHIBIANS

black-spotted newt *Notophthalmus meridionalis*

May be found in resacas and bodies of water with firm bottoms and little or no vegetation. Can be found in wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; the absence of predatory fish is probably important. Aestivates in the ground during dry periods; Gulf Coastal Plain south of the San Antonio River.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G1	State Rank: S3

Cascade Caverns salamander *Eurycea latitans*

Subaquatic; springs and caves in Medina River, Guadalupe River, and Cibolo Creek watersheds within Edwards Aquifer area

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S2

Comal Blind salamander *Eurycea tridentifera*

Occurs within the aphotic zones of shallow limestone caves with streams fed by phreatic groundwater; semi-troglobitic; found in springs and waters of caves

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

Mexican treefrog *Smilisca baudinii*

The subtropical Rio Grande embayment around Brownsville. May do well in association with man and may tolerate relatively dry situations provided moist microclimates available; breeds May-October coinciding with rainfall, eggs laid in temporary rain pools.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Strecker's chorus frog *Pseudacris streckeri*

Wooded floodplains and flats, prairies, cultivated fields and marshes. Likes sandy substrates.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

Texas salamander *Eurycea neotenes*

Troglobitic; springs, seeps, cave streams, and creek headwaters; often hides under rocks and leaves in water; restricted to Helotes and Leon Creek drainages

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1S2

BEXAR COUNTY

AMPHIBIANS

Valdina Farms sinkhole salamander *Eurycea troglodytes*

Isolated, intermittent pools of subterranean streams and sinkholes in Nueces, Frio, Guadalupe, and Pedernales watersheds within Edwards Aquifer area.

Federal Status:	State Status:	SGCN: N
Endemic: Y	Global Rank: G3	State Rank: S3S4

Woodhouse's toad *Anaxyrus woodhousii*

Extremely catholic up to 5000 feet, does very well (except for traffic) in association with man.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: SU

ARACHNIDS

Braken Bat Cave meshweaver *Cicurina venii*

Small, eyeless, or essentially eyeless spider; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

Cokendolpher Cave harvestman *Texella cokendolpheri*

Small, eyeless harvestman; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

Government Canyon Bat Cave meshweaver *Cicurina vespera*

Small, eyeless, or essentially eyeless spider; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

Government Canyon Bat Cave spider *Neoleptoneta microps*

Small, eyeless, or essentially eyeless spider; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

Madla Cave meshweaver *Cicurina madla*

Small, eyeless, or essentially eyeless spider; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

BEXAR COUNTY

ARACHNIDS

No accepted common name *Speodesmus reddelli*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: GNR	State Rank: SNR

No accepted common name *Tartarocreagris amblyopa*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1G2	State Rank: S1

No accepted common name *Tartarocreagris reyesi*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: GNR	State Rank: S1

Robber Baron Cave meshweaver *Cicurina baronia*

Small, eyeless, or essentially eyeless spider; karst features in north and northwest Bexar County

Federal Status: LE	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

ARTHROPODS

No accepted common name *Speodesmus falcatus*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: GNR	State Rank: SNR

No accepted common name *Speodesmus ivyi*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: GNR	State Rank: SNR

BIRDS

bald eagle *Haliaeetus leucocephalus*

Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3B,S3N

BEXAR COUNTY

BIRDS

black-capped vireo *Vireo atricapilla*

Oak-juniper woodlands with distinctive patchy, two-layered aspect; shrub and tree layer with open, grassy spaces; requires foliage reaching to ground level for nesting cover; return to same territory, or one nearby, year after year; deciduous and broad-leaved shrubs and trees provide insects for feeding; species composition less important than presence of adequate broad-leaved shrubs, foliage to ground level, and required structure; nesting season March-late summer

Federal Status:	State Status: E	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2B

Franklin's gull *Leucophaeus pipixcan*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S2N

golden-cheeked warbler *Setophaga chrysoparia*

Ashe juniper in mixed stands with various oaks (Quercus spp.). Edges of cedar brakes. Dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G2	State Rank: S2B

interior least tern *Sternula antillarum athalassos*

Sand beaches, flats, bays, inlets, lagoons, islands. Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G4T2Q	State Rank: S1B

mountain plover *Charadrius montanus*

Breeding: nests on high plains or shortgrass prairie, on ground in shallow depression; nonbreeding: shortgrass plains and bare, dirt (plowed) fields; primarily insectivorous

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2

piping plover *Charadrius melodus*

BEXAR COUNTY

BIRDS

Beaches, sandflats, and dunes along Gulf Coast beaches and adjacent offshore islands. Also spoil islands in the Intracoastal Waterway. Based on the November 30, 1992 Section 6 Job No. 9.1, Piping Plover and Snowy Plover Winter Habitat Status Survey, algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. Sand flats often appear to be preferred over algal flats when both are available, but large portions of sand flats along the Texas coast are available only during low-very low tides and are often completely unavailable during extreme high tides or strong north winds. Beaches appear to serve as a secondary habitat to the flats associated with the primary bays, lagoons, and inter-island passes. Beaches are rarely used on the southern Texas coast, where bayside habitat is always available, and are abandoned as bayside habitats become available on the central and northern coast. However, beaches are probably a vital habitat along the central and northern coast (i.e. north of Padre Island) during periods of extreme high tides that cover the flats. Optimal site characteristics appear to be large in area, sparsely vegetated, continuously available or in close proximity to secondary habitat, and with limited human disturbance.

Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2N

reddish egret *Egretta rufescens*

Resident of the Texas Gulf Coast; brackish marshes and shallow salt ponds and tidal flats; nests on ground or in trees or bushes, on dry coastal islands in brushy thickets of yucca and prickly pear

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3B

tropical parula *Setophaga pitiayumi*

Semi-tropical evergreen woodland along rivers and resacas. Texas ebony, anacua and other trees with epiphytic plants hanging from them. Dense or open woods, undergrowth, brush, and trees along edges of rivers and resacas; breeding April to July.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3B

western burrowing owl *Athene cunicularia hypugaea*

Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4T4	State Rank: S2

white-faced ibis *Plegadis chihi*

Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; currently confined to near-coastal rookeries in so-called hog-wallow prairies. Nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4B

whooping crane *Grus americana*

Small ponds, marshes, and flooded grain fields for both roosting and foraging. Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G1	State Rank: S1N

BEXAR COUNTY

BIRDS

wood stork *Mycteria americana*

Prefers to nest in large tracts of baldcypress (Taxodium distichum) or red mangrove (Rhizophora mangle); forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: SHB,S2N

zone-tailed hawk *Buteo albonotatus*

Arid open country, including open deciduous or pine-oak woodland, mesa or mountain county, often near watercourses, and wooded canyons and tree-lined rivers along middle-slopes of desert mountains; nests in various habitats and sites, ranging from small trees in lower desert, giant cottonwoods in riparian areas, to mature conifers in high mountain regions

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3B

CRUSTACEANS

a cave obligate isopod *Speocirolana hardeni*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2G3	State Rank: S2

Cascade Cave amphipod *Stygobromus dejectus*

Subaquatic crustacean; subterranean obligate; in pools

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1G2	State Rank: S1

Ezell's Cave amphipod *Stygobromus flagellatus*

Known only from artesian wells

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2G3	State Rank: S3

No accepted common name *Mexiweckelia hardeni*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2G3	State Rank: S2

BEXAR COUNTY

FISH

Guadalupe bass *Micropterus treculii*

Endemic to the streams of the northern and eastern Edwards Plateau including portions of the Brazos, Colorado, Guadalupe, and San Antonio basins; species also found outside of the Edwards Plateau streams in decreased abundance, primarily in the lower Colorado River; two introduced populations have been established in the Nueces River system. A pure population was re-established in a portion of the Blanco River in 2014. Species prefers lentic environments but commonly taken in flowing water; numerous smaller fish occur in rapids, many times near eddies; large individuals found mainly in riffle tail races; usually found in spring-fed streams having clear water and relatively consistent temperatures.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

river darter *Percina shumardi*

In Texas limited to eastern streams including Red southward to the Neches, and a disjunct population in the Guadalupe and San Antonio river systems east of the Balcones Escarpment. Confined to large rivers and lower parts of major tributaries; almost
almost invariably found in deep chutes and riffles where current is swift and bottom composed of coarse gravel or rock.

Federal Status:	State Status:	SGCN: N
Endemic:	Global Rank: G5	State Rank: S4

Texas shiner *Notropis amabilis*

In Texas, it is found primarily in Edwards Plateau streams from the San Gabriel River in the east to the Pecos River in the west. Typical habitat includes rocky or sandy runs, as well as pools.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4

toothless blindcat *Trogloglanis pattersoni*

Restricted to five artesian wells penetrating the San Antonio Pool of the Edwards Aquifer; found at depths of 305-582 m.

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1G2	State Rank: S1

widemouth blindcat *Satan eurystomus*

Restricted to five artesian wells penetrating the San Antonio Pool of the Edwards Aquifer; found at depths of 305-582 m.

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1G2	State Rank: S1

INSECTS

a cave obligate beetle *Batrisodes shadeae*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G1	State Rank: SNR

BEXAR COUNTY

INSECTS

a ground beetle *Rhadine exilis*

Small, essentially eyeless ground beetle; karst features in north and northwest Bexar County

Federal Status: LE | State Status: | SGCN: Y
Endemic: Y | Global Rank: G3 | State Rank: S1

a ground beetle *Rhadine infernalis*

Small, essentially eyeless ground beetle; karst features in north and northwest Bexar County

Federal Status: LE | State Status: | SGCN: Y
Endemic: Y | Global Rank: G2G3 | State Rank: S1

American bumblebee *Bombus pensylvanicus*

Habitat description is not available at this time.

Federal Status: | State Status: | SGCN: Y
Endemic: | Global Rank: G3G4 | State Rank: SNR

Helotes mold beetle *Batrisodes venyivi*

Small, eyeless mold beetle; karst features in northwestern Bexar County and northeastern Medina County

Federal Status: LE | State Status: | SGCN: Y
Endemic: Y | Global Rank: G1 | State Rank: S1

Manfreda giant-skipper *Stallingsia maculosus*

Most skippers are small and stout-bodied; name derives from fast, erratic flight; at rest most skippers hold front and hind wings at different angles; skipper larvae are smooth, with the head and neck constricted; skipper larvae usually feed inside a leaf shelter and pupate in a cocoon made of leaves fastened together with silk

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G1 | State Rank: S1

No accepted common name *Bombus variabilis*

Habitat description is not available at this time.

Federal Status: | State Status: | SGCN: Y
Endemic: | Global Rank: GU | State Rank: SNR

No accepted common name *Cotinis boylei*

Habitat description is not available at this time.

Federal Status: | State Status: | SGCN: Y
Endemic: | Global Rank: GNR | State Rank: SNR

No accepted common name *Cotalpa conclamara*

Habitat description is not available at this time.

Federal Status: | State Status: | SGCN: Y

BEXAR COUNTY

INSECTS

Endemic: Global Rank: GNR State Rank: SNR

No accepted common name *Dichopetala catinata*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: SNR

No accepted common name *Dichopetala seeversi*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: SNR

No accepted common name *Lymantes nadineae*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: SNR

No accepted common name *Megachile parksi*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GH State Rank: SNR

No accepted common name *Nectopsyche texana*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: G1G3 State Rank: S2?

No accepted common name *Rhadine bullis*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: SNR

No accepted common name *Pygarctia lorula*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Y Global Rank: G2G3 State Rank: S2?

MAMMALS

American badger *Taxidea taxus*

BEXAR COUNTY

MAMMALS

Habitat description is not available at this time.

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G5 | State Rank: S5

big brown bat *Eptesicus fuscus*

Any wooded areas or woodlands except south Texas. Riparian areas in west Texas.

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G5 | State Rank: S5

big free-tailed bat *Nyctinomops macrotis*

Habitat data sparse but records indicate that species prefers to roost in crevices and cracks in high canyon walls, but will use buildings, as well; reproduction data sparse, gives birth to single offspring late June-early July; females gather in nursery colonies; winter habits undetermined, but may hibernate in the Trans-Pecos; opportunistic insectivore

Federal Status: | State Status: | SGCN: Y
Endemic: | Global Rank: G5 | State Rank: S3

black bear *Ursus americanus*

In Chisos, prefers higher elevations where pinyon-oaks predominate; also occasionally sighted in desert scrub of Trans-Pecos (Black Gap Wildlife Management Area) and Edwards Plateau in juniper-oak habitat. For ssp. luteolus, bottomland hardwoods, floodplain forests, upland hardwoods with mixed pine; marsh. Bottomland hardwoods and large tracts of inaccessible forested areas.

Federal Status: | State Status: T | SGCN: Y
Endemic: N | Global Rank: G5 | State Rank: S3

black-tailed prairie dog *Cynomys ludovicianus*

Dry, flat, short grasslands with low, relatively sparse vegetation, including areas overgrazed by cattle; live in large family groups

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G4 | State Rank: S3

cave myotis bat *Myotis velifer*

Colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (Hirundo pyrrhonota) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore.

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G4G5 | State Rank: S4

eastern red bat *Lasiurus borealis*

Found in a variety of habitats in Texas. Usually associated with wooded areas. Found in towns especially during migration.

Federal Status: | State Status: | SGCN: Y
Endemic: N | Global Rank: G3G4 | State Rank: S4

eastern spotted skunk *Spilogale putorius*

BEXAR COUNTY

MAMMALS

Catholic; open fields prairies, croplands, fence rows, farmyards, forest edges & woodlands. Prefer wooded, brushy areas & tallgrass prairies. S.p. ssp. interrupta found in wooded areas and tallgrass prairies, preferring rocky canyons and outcrops when such sites are available.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S1S3

hoary bat *Lasiurus cinereus*

Known from montane and riparian woodland in Trans-Pecos, forests and woods in east and central Texas.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S4

long-tailed weasel *Mustela frenata*

Includes brushlands, fence rows, upland woods and bottomland hardwoods, forest edges & rocky desert scrub. Usually live close to water.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

Mexican free-tailed bat *Tadarida brasiliensis*

Roosts in buildings in east Texas. Largest maternity roosts are in limestone caves on the Edwards Plateau. Found in all habitats, forest to desert.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

mink *Neovison vison*

Intimately associated with water; coastal swamps & marshes, wooded riparian zones, edges of lakes. Prefer floodplains.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

mountain lion *Puma concolor*

Rugged mountains & riparian zones.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2S3

plains spotted skunk *Spilogale putorius interrupta*

Catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G4T4	State Rank: S1S3

BEXAR COUNTY

MAMMALS

swamp rabbit *Sylvilagus aquaticus*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

thirteen-lined ground squirrel *Ictidomys tridecemlineatus*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

tricolored bat *Perimyotis subflavus*

Forest, woodland and riparian areas are important. Caves are very important to this species.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2G3	State Rank: S3S4

western hog-nosed skunk *Conepatus leuconotus*

Habitats include woodlands, grasslands & deserts, to 7200 feet, most common in rugged, rocky canyon country; little is known about the habitat of the ssp. telmalestes

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4

western spotted skunk *Spilogale gracilis*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

white-nosed coati *Nasua narica*

Woodlands, riparian corridors and canyons.Most individuals in Texas probably transients from Mexico; diurnal and crepuscular; very sociable; forages on ground and in trees; omnivorous; may be susceptible to hunting, trapping, and pet trade

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S1

MOLLUSKS

golden orb *Quadrula aurea*

Sand and gravel in some locations and mud at others; found in lentic and lotic; Guadalupe, San Antonio, Lower San Marcos, and Nueces River basins

Federal Status: C	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S2

BEXAR COUNTY

MOLLUSKS

mimic cavesnail *Phreatodrobia imitata*

Subaquatic; only known from two wells penetrating the Edwards Aquifer

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

No accepted common name *Phreatodrobia conica*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S2

No accepted common name *Cyclonaias necki*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: N
Endemic: Y	Global Rank: GNR	State Rank: SNR

REPTILES

American alligator *Alligator mississippiensis*

Coastal marshes; inland natural rivers, swamps and marshes; manmade impoundments.

Federal Status:	State Status:	SGCN: N
Endemic: N	Global Rank: G5	State Rank: S4

Cagle's map turtle *Graptemys caglei*

Guadalupe River System; shallow water with swift to moderate flow and gravel or cobble bottom, connected by deeper pools with a slower flow rate and a silt or mud bottom; gravel bar riffles and transition areas between riffles and pools especially important in providing insect prey items; nests on gently sloping sand banks within ca. 30 feet of waters edge

Federal Status:	State Status: T	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S1

common garter snake *Thamnophis sirtalis*

Irrigation canals and riparian-corridor farmlands in west; marshy, flooded pastureland, grassy or brushy borders of permanent bodies of water; coastal salt marshes.

Federal Status:	State Status:	SGCN: N
Endemic:	Global Rank: G5	State Rank: S2

BEXAR COUNTY

REPTILES

eastern box turtle *Terrapene carolina*

Eastern box turtles inhabit forests, fields, forest-brush, and forest-field ecotones. In some areas they move seasonally from fields in spring to forest in summer. They commonly enters pools of shallow water in summer. For shelter, they burrow into loose soil, debris, mud, old stump holes, or under leaf litter. They can successfully hibernate in sites that may experience subfreezing temperatures. In Maryland bottomland forest, some hibernated in pits or depressions in forest floor (usually about 30 cm deep) usually within summer range; individuals tended to hibernate in same area in different years (Stickel 1989). Also attracted to farms, old fields and cut-over woodlands, as well as creek bottoms and dense woodlands. Egg laying sites often are sandy or loamy soils in open areas; females may move from bottomlands to warmer and drier sites to nest. In Maryland, females used the same nesting area in different years (Stickel 1989).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

keeled earless lizard *Holbrookia propinqua*

Coastal dunes, barrier islands, and other sandy areas; eats insects and likely other small invertebrates; eggs laid underground March-September (most May-August)

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S3

northern spot-tailed earless lizard *Holbrookia lacerata lacerata*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4TNR	State Rank: S2

slender glass lizard *Ophisaurus attenuatus*

Prefers relatively dry microhabitats, usually associated with grassy areas. Habitats include open grassland, prairie, woodland edge, open woodland, oak savannas, longleaf pine flatwoods, scrubby areas, fallow fields, and areas near streams and ponds, often in habitats with sandy soil. This species often appears on roads in spring. During inactivity, it occurs in underground burrows. In Kansas, slender glass lizards were scarce in heavily grazed pastures, increased as grass increased with removal of grazing, and declined as brush and trees replaced grass (Fitch 1989). Eggs are laid underground, under cover, or under grass clumps (Ashton and Ashton 1985); in cavities beneath flat rocks or in abandoned tunnels of small mammals (Scalopus, Microtus) (Fitch 1989).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

southern spot-tailed earless lizard *Holbrookia lacerata subcaudalis*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G3G4TNR	State Rank: S2

spot-tailed earless lizard *Holbrookia lacerata*

Central and southern Texas and adjacent Mexico; moderately open prairie-brushland; fairly flat areas free of vegetation or other obstructions, including disturbed areas; eats small invertebrates; eggs laid underground

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S2

BEXAR COUNTY

REPTILES

Texas garter snake *Thamnophis sirtalis annectens*

Irrigation canals and riparian-corridor farmlands in west; marshy, flooded pastureland, grassy or brushy borders of permanent bodies of water; coastal salt marshes. Wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G5T4	State Rank: S1

Texas horned lizard *Phrynosoma cornutum*

Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area. Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3

Texas indigo snake *Drymarchon melanurus erebennus*

Thornbush-chaparral woodland of south Texas, in particular dense riparian corridors.Can do well in suburban and irrigated croplands if not molested or indirectly poisoned. Requires moist microhabitats, such as rodent burrows, for shelter; Texas south of the Guadalupe River and Balcones Escarpment.

Federal Status:	State Status: T	SGCN: Y
Endemic:	Global Rank: G5T4	State Rank: S4

Texas tortoise *Gopherus berlandieri*

Open brush with a grass understory is preferred; open grass and bare ground are avoided. Seasonally flooded tidal flats are not utilized. When inactive occupies shallow depressions at base of bush or cactus, sometimes in underground burrows or under objects; longevity greater than 50 years; active March-November; breeds April-November

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2

timber (canebrake) rattlesnake *Crotalus horridus*

Swamps, floodplains, upland pine and deciduous woodland, riparian zones, abandoned farmland. Limestone bluffs, sandy soil or black clay. Prefers dense ground cover, i.e. grapevines, palmetto.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4

western box turtle *Terrapene ornata*

Ornate or western box trutles inhabit prairie grassland, pasture, fields, sandhills, and open woodland. They are essentially terrestrial but sometimes enter slow, shallow streams and creek pools. For shelter, they burrow into soil (e.g., under plants such as yucca) (Converse et al. 2002) or enter burrows made by other species; winter burrow depth was 0.5-1.8 meters in Wisconsin (Doroff and Keith 1990), 7-120 cm (average depth 54 cm) in Nebraska (Converse et al. 2002). Eggs are laid in nests dug in soft well-drained soil in open area (Legler 1960, Converse et al. 2002). Very partial to sandy soil.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

BEXAR COUNTY

REPTILES

western hognose snake *Heterodon nasicus*

Habitat consists of areas with sandy or gravelly soils, including prairies, sandhills, wide valleys, river floodplains, bajadas, semiagricultural areas (but not intensively cultivated land), and margins of irrigation ditches (Degenhardt et al. 1996, Hammerson 1999, Werler and Dixon 2000, Stebbins 2003). Also thornscrub woodlands and chaparral thickets. Seems to prefer sandy and loamy soils, not necessarily flat. Periods of inactivity are spent burrowed in the soil or in existing burrows. Eggs are laid in nests a few inches below the ground surface (Platt 1969).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4

western rattlesnake *Crotalus viridis*

Grassland, both desert and prairie; shrub desert rocky hillsides; edges of arid and semi-arid river breaks.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

PLANTS

awnless leastdaisy *Chaetopappa imberbis*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

big red sage *Salvia pentstemonoides*

Moist to seasonally wet, steep limestone outcrops on seeps within canyons or along creek banks; occasionally on clayey to silty soils of creek banks and terraces, in partial shade to full sun; basal leaves conspicuous for much of the year; flowering June-October

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

bigflower cornsalad *Valerianella stenocarpa*

Usually along creekbeds or in vernally moist grassy open areas (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

bracted twistflower *Streptanthus bracteatus*

Shallow, well-drained gravelly clays and clay loams over limestone in oak juniper woodlands and associated openings, on steep to moderate slopes and in canyon bottoms; several known soils include Tarrant, Brackett, or Speck over Edwards, Glen Rose, and Walnut geologic formations; populations fluctuate widely from year to year, depending on winter rainfall; flowering mid April-late May, fruit matures and foliage withers by early summer

Federal Status: C	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1	State Rank: S1

BEXAR COUNTY

PLANTS

bristle nailwort *Paronychia setacea*

Flowering vascular plant endemic to eastern southcentral Texas, occurring in sandy soils

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S2

Buckley tridens *Tridens buckleyanus*

Occurs in juniper-oak woodlands on rocky limestone slopes; Perennial; Flowering/Fruiting April-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

Burridge greenthread *Thelesperma burridgeanum*

Sandy open areas; Annual; Flowering March-Nov; Fruiting March-June

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Correll's false dragon-head *Physostegia correllii*

Wet, silty clay loams on streamsides, in creek beds, irrigation channels and roadside drainage ditches; or seepy, mucky, sometimes gravelly soils along riverbanks or small islands in the Rio Grande; or underlain by Austin Chalk limestone along gently flowing spring-fed creek in central Texas; flowering May-September

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2	State Rank: S2

Elmendorf's onion *Allium elmendorfii*

Grassland openings in oak woodlands on deep, loose, well-drained sands; in Coastal Bend, on Pleistocene barrier island ridges and Holocene Sand Sheet that support live oak woodlands; to the north it occurs in post oak-black hickory-live oak woodlands over Queen City and similar Eocene formations; one anomalous specimen found on Llano Uplift in wet pockets of granitic loam; Perennial; Flowering March-April, May

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2	State Rank: S2

Glass Mountains coral-root *Hexalectris nitida*

Apparently rare in mixed woodlands in canyons in the mountains of the Brewster County, but encountered with regularity, albeit in small numbers, under Juniperus ashei in woodlands over limestone on the Edwards Plateau, Callahan Divide and Lampasas Cutplain; Perennial; Flowering June-Sept; Fruiting July-Sept

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

gravelbar brickellbush *Brickellia dentata*

Essentially restricted to frequently-scoured gravelly alluvial beds in creek and river bottoms; Perennial; Flowering June-Nov; Fruiting June-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

BEXAR COUNTY

PLANTS

hairy sycamore-leaf snowbell *Styrax platanifolius ssp. stellatus*

Rare throughout range, in habitats similar to those of var. platanifolius - usually in oak-juniper woodlands on steep rocky banks and ledges along intermittent or perennial streams, rarely far from some reliable source of moisture; Perennial; Flowering April-Oct; Fruiting May-Sept

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3T3	State Rank: S3

Heller's beardtongue *Penstemon triflorus ssp. integrifolius*

Occurs sparingly on rock outcrops and in grasslands associated with juniper-oak woodlands (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3T2	State Rank: S2

Heller's marbleseed *Onosmodium helleri*

Occurs in loamy calcareous soils in oak-juniper woodlands on rocky limestone slopes, often in more mesic portions of canyons; Perennial; Flowering March-May

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Hill Country wild-mercury *Argythamnia aphoroides*

Mostly in bluestem-grama grasslands associated with plateau live oak woodlands on shallow to moderately deep clays and clay loams over limestone on rolling uplands, also in partial shade of oak-juniper woodlands in gravelly soils on rocky limestone slopes; Perennial; Flowering April-May with fruit persisting until midsummer

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2G3	State Rank: S2S3

low spurge *Euphorbia peplidion*

Occurs in a variety of vernally-moist situations in a number of natural regions; Annual; Flowering Feb-April; Fruiting March-April

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Lundell's whitlow-wort *Paronychia lundellorum*

The Sand Sheet of eastern South Texas, in tight sandy soils over saline clay on microhighs within salty prairie grasslands, and in upper portions of saline flats surrounding short drainages and brackish basins typical of the South Texas Sand Sheet; flowering April through at least October, probably intermittently throughout the year depending on rainfall

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G1Q	State Rank: S1

narrowleaf brickellbush *Brickellia eupatorioides var. gracillima*

Moist to dry gravelly alluvial soils along riverbanks but also on limestone slopes; Perennial; Flowering/Fruiting April-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G5T3	State Rank: S3

BEXAR COUNTY

PLANTS

net-leaf bundleflower *Desmanthus reticulatus*

Mostly on clay prairies of the coastal plain of central and south Texas; Perennial; Flowering April-July; Fruiting April-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Osage Plains false foxglove *Agalinis densiflora*

Most records are from grasslands on shallow, gravelly, well drained, calcareous soils; Prairies, dry limestone soils; Annual; Flowering Aug-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2

Parks' jointweed *Polygonella parksii*

Mostly found on deep, loose, whitish sand blowouts (unstable, deep, xeric, sandhill barrens) in Post Oak Savanna landscapes over the Carrizo and Sparta formations; also occurs in early successional grasslands, along right-of-ways, and on mechanically disturbed areas; flowering June-late October or September-November

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2	State Rank: S2

Plateau loosestrife *Lythrum ovalifolium*

Banks and gravelly beds of perennial (or strong intermittent) streams on the Edwards Plateau, Llano Uplift and Lampasas Cutplain; Perennial; Flowering/Fruiting April-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3S4

plateau milkvine *Matelea edwardsensis*

Occurs in various types of juniper-oak and oak-juniper woodlands; Perennial; Flowering March-Oct; Fruiting May-June

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

sandhill woolywhite *Hymenopappus carrizoanus*

Disturbed or open areas in grasslands and post oak woodlands on deep sands derived from the Carrizo Sand and similar Eocene formations; flowering April-June

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2	State Rank: S2

Siler's huaco *Manfreda sileri*

Rare in a variety of grasslands and shrublands on dry sites; Perennial; Flowering April-July; Fruiting June-July

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

South Texas rushpea *Caesalpinia phyllanthoides*

BEXAR COUNTY

PLANTS

Tamaulipan thorn shrublands or grasslands on very shallow sandy to clayey soils over calcareous sandstone and caliche; flowering in spring, sometimes later in growing season, perhaps in response to rainfall

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2?	State Rank: S1

spreading leastdaisy *Chaetopappa effusa*

Limestone cliffs, ledges, bluffs, steep hillsides, sometimes in seepy areas, oak-juniper, oak, or mixed deciduous woods, 300-500 m elevation; Perennial; Flowering (May) July-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

sycamore-leaf snowbell *Styrax platanifolius ssp. platanifolius*

Rare throughout range, usually in oak-juniper woodlands on steep rocky banks and ledges along intermittent or perennial streams, rarely far from some reliable source of moisture; Perennial; Flowering April-May; Fruiting May-Aug.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3T3	State Rank: S3

Texas almond *Prunus minutiflora*

Wide-ranging but scarce, in a variety of grassland and shrubland situations, mostly on calcareous soils underlain by limestone but occasionally in sandier neutral soils underlain by granite; Perennial; Flowering Feb-May and Oct; Fruiting Feb-Sept

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

Texas amorpha *Amorpha roemeriana*

Juniper-oak woodlands or shrublands on rocky limestone slopes, sometimes on dry shelves above creeks; Perennial; Flowering May-June; Fruiting June-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

Texas fescue *Festuca versuta*

Occurs in mesic woodlands on limestone-derived soils on stream terraces and canyon slopes; Perennial; Flowering/Fruiting April-June

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

Texas peachbush *Prunus texana*

Occurs at scattered sites in various well drained sandy situations; deep sand, plains and sand hills, grasslands, oak woods, 0-200 m elevation; Perennial; Flowering Feb-Mar; Fruiting Apr-Jun

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

Texas seymeria *Seymeria texana*

BEXAR COUNTY

PLANTS

Found primarily in grassy openings in juniper-oak woodlands on dry rocky slopes but sometimes on rock outcrops in shaded canyons; Annual; Flowering May-Nov; Fruiting July-Nov

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

threeflower penstemon *Penstemon triflorus ssp. triflorus*

Occurs sparingly on rock outcrops and in grasslands associated with juniper-oak woodlands (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3T3	State Rank: S3

tree dodder *Cuscuta exaltata*

Parasitic on various Quercus, Juglans, Rhus, Vitis, Ulmus, and Diospyros species as well as Acacia berlandieri and other woody plants; Annual; Flowering May-Oct; Fruiting July-Oct

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3

turnip-root scurfea *Pediomelum cyphocalyx*

Grasslands and openings in juniper-oak woodlands on limestone substrates on the Edwards Plateau and in north-central Texas (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4	State Rank: S3S4

woolly butterfly-weed *Gaura villosa ssp. parksii*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G5T3	State Rank: S3

Wright's milkvetch *Astragalus wrightii*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3

Critical Habitat/Endangered Species

Literature and agency file searches were conducted to review the potential occurrence of federally- and state-listed threatened and endangered (**T&E**) species located in the Property vicinity. The search included information from the U.S. Fish and Wildlife Service (**USFWS**) Information Planning and Conservation (IPaC) portal and Texas Parks and Wildlife Rare, Threatened, and Endangered Species of Texas by County portal. The following is a list of federally- and state-listed T&E species potentially located in Bexar County, Texas.

Threatened & Endangered Species

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
AMPHIBIANS					
Black-spotted newt (*Notophthalmus meridionalis*)	Threatened S	Found in wet areas such as ditches, canals, water bodies with little vegetation in the Gulf Coastal Plain south of the San Antonio River.	N	N	None
Cascade Caverns salamander (*Eurycea latitans complex*)	Threatened S	Found in subaquatic springs and caves in the Edwards Aquifer region in the Medina River, Guadalupe River, and Cibolo Creek watersheds.	N	N	None
Comal blind salamander (*Eurycae tridentífera*)	Threatened S	Found in springs and cave waters of the Edwards Aquifer region.	N	N	None
Mexican treefrog (*Smilisca baudinii*)	Threatened S	Rio Grande embayment in South Texas. Can live in urban areas with moist microclimates.	N	N	None
San Marcos Salamander (*Eurcea nana)*	Threatened F	Texas, Hays County, Spring Lake and its outflow, the San Marcos river.	N	N	None
Texas Blind Salamander (*Typhlomolge*	Endangered F	The Edwards's aquifer artesian and recharge zone in the vicinity of San Marcos, Hays County, Texas. It is subterranean but individuals may reach the surface via	N	N	None

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
rathbuni)		springs.			
BIRDS					
Bald eagle (*Haliaeetus leucocephalus*)	Threatened S	Nests in tall trees or cliffs near water bodies such as rivers or large lakes.	N	N	None
American Peregrine Falcon (*Falco peregrinus anatum*)	Threatened S	Resident in West Texas and winters along the Texas coast. During migration can be found along lake shores, coastlines and barrier islands.	N	N	None
Black-capped Vireo (*Vireo atricapilla)*	Endangered S	Rangelands with scattered clumps of shrubs separated by grasslands	N	N	None
Golden-cheeked Warbler (*Dendroica chrysoparia)*	Endangered F,S	Woodlands with tall Ashe juniper (colloquially "cedar"), oaks, and other hardwood trees provide habitat for the golden-cheeked warbler.	N	N	None
Least Tern (*Sterna antillarum)*	Endangered F,S	Least terns nest on barren to sparsely vegetated sandbars along rivers, sand and gravel pits, lake and reservoir shorelines, and occasionally gravel rooftops. They hover over and dive into standing or flowing water to catch small fish.	N	N	None
Piping Plover (*Charadrius melodus)*	Threatened F,S	The piping plover lives the majority of its life on open sandy beaches or rocky shores, often in high, dry sections away from water.	N	N	None
Reddish egret (*Egretta rufescens*)	Threatened S	Found primary along the Texas Gulf Coast in brackish marshes, shallow ponds, and tidal flats.	N	N	None
Red Knot (*Calidris canutus rufa)*	Threatened F	Peat banks, saltmarshes, brackish lagoons, tidal mudflats and mangroves	N	N	None
Tropical parula (*Setophaga*	Threatened S	Found in evergreen woodland with varying density under brush usually along rivers.	N	N	None

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
pitiayumi)					
White-faced Ibis (*Plegadis chihi*)	Threatened S	Found in freshwater marsh areas and brackish and saltwater habitats along the coast.	N	N	None
Whooping Crane (*Grus americana)*	Endangered F	Whooping cranes like wetlands, marshes, mudflats, wet prairies and fields.	N	N	None
Wood Stork (*Mycteria americana*)	Threatened S	Wood storks can be found in wetlands, ponds, and flooded areas such as fields and pastures. Can also be found in mud flats in salt water environments.	N	N	None
Zone-tailed Hawk (*Buteo albonotatus*)	Threatened S	Found along rivers and streams in pine-oak woodlands in mountainous or canyon terrain.	N	N	None
FISH					
Toothless blindcat (*Trogloglanis pattersoni*)	Threatened S	Found in cave environments within the San Antonio pool of the Edwards Aquifer.	N	N	None
Widemouth blindcat (*Satan eurystomus*)	Threatened S	Found in cave environments within the San Antonio pool of the Edwards Aquifer.	N	N	None
INSECTS					
Robber baron Cave meshweaver (*Cicurina baronia)*	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
Bracken Bat Cave meshweaver (*Cicurina venii)*	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
Madla's Cave meshweaver (*Cicurina madla*)	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
Government Canyon Bat Cave spider (*Neoleptoneta microps)*	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
Government Canyon Bat Cave meshweaver (*Cicurina vespera)*	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
Cokendolpher cave harvestman (*Texella cokendolpheri)*	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
[No common name] Ground beetle (*Radine exilis*)	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
[No common name] Ground beetle (*Radine infernalis*)	Endangered F	Subterranean karst spaces with stable temperature and high humidity.	N	N	None
Comal Springs Dryopid Beetle (*Stygoparnus comalensis)*	Endangered F	Comal Springs aquatic ecosystem. Due to their inability to swim, Comal Springs dryopid beetles appear to be restricted to headwaters of springs and spring runs	N	N	None
Comal Springs Riffle Beetle (*heterelmis comalensis)*	Endangered F	Comal Springs aquatic ecosystem.	N	N	None

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
Helotes Mold Beetle (*Batrisodes venyivi)*	Endangered F	The San Marcos Salamander is only known to occur at San Marcos Springs and an adjacent downstream portion of the upper San Marcos River.	N	N	None
PLANTS					
Bracted Twistflower (*Streotanthus bracteatus)*	Candidate F	Rocky hillsides and slopes. It is usually found growing under shrubs, but it may not need shade; its present association with shrubs might be because deer have eaten the plants in the open.	N	N	None
Texas Wild-rice (*Zizania texana)*	Endangered F	This plant grows in clear flowing spring-fed waters.	N	N	None
CLAMS/CRUSTACEANS					
Golden Orb (*Quadrula aurea)*	Candidate (F) Threatened S	Mixture of mud, sand, and gravel at the bottoms of streams and rivers.	N	N	None
Texas Fatmucket (*Lampsilis bracteata)*	Candidate F	Mixture of mud, sand, and gravel at the bottoms of streams and rivers.	N	N	None
Texas Pimpleback (*Quadrula petrina)*	Candidate F	Mixture of mud, sand, and gravel at the bottoms of streams and rivers.	N	N	None
Peck's Cave Amphipod (*Stygbromus pecki)*	Endangered F	Comal Springs aquatic ecosystem.	N	N	None
MAMMALS					
Black Bear (*Ursus americanus*)	Threatened S	Found in bottomland hardwoods and large forested areas.	N	N	None
White-nosed coati	Threatened S	Found in woodlands along riparian areas and canyons.	N	N	None

SPECIES	STATUS	HABITAT	PRESENCE OF CRITICAL HABITAT	PROJECT SITE SUITABILITY	POTENTIAL IMPACTS OF PROJECT
REPTILES					
Cagle's map turtle (*Graptemys caglei*)	Threatened S	Found in shallow water with fast to moderate flow with gravel substrate with access to deeper pools with sand and mud substrate.	N	N	None
Texas horned lizard (*Phrynosoma cornutum*)	Threatened S	Found in open semi-arid regions. Vegetation include sparse grass, brush, and cactus in a variety of soils ranging from sand to rock.	N	N	None
Texas indigo snake (*Drymarchon melanurus erebennus*)	Threatened S	Found south of the Balcones Escarpment in brush woodland. Found along riparian corridors.	N	N	None
Texas tortoise (*Gopherus berlandieri*)	Threatened S	Found in open brush with grass understory areas. Lives in depressions at the base of cactus and brush.	N	N	None
Timber rattlesnake (*Crotalus horridus*)	Threatened S	Found in floodplains, swamps and woodland along riparian zones.	N	N	None

F-Federally listed S-State listed

Appendix B4
Cultural Resources (Section 5.8)

Cultural Resources Assessment

SAWS US 90 PRESSURE ZONE INTERGRATION
SAN ANTONIO, BEXAR COUNTY, TEXAS

August 6, 2019

Terracon Project No. 90197228

Prepared for:

Bain Medina Bain, Inc.
San Antonio, Texas

Prepared by:

Terracon Consultants, Inc.
San Antonio, Texas

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San Antonio, TX 78216
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Terracon

Environmental • Facilities • Geotechnical • Materials

1.0 INTRODUCTION

Terracon performed a desktop cultural resources assessment for a proposed water line installation project in western San Antonio, Bexar County, Texas (Exhibits 1 and 2). The proposed undertaking, which is sponsored by the San Antonio Water System (SAWS) public utility, totals approximately 1.72 miles in length spread out over five separate sections on ten streets in the vicinity of the intersection of General McMullen Drive and US Highway 90. The proposed project would take place on land/right-of-way (ROW) owned by the City of San Antonio, and, therefore, the project is under purview of the Antiquities Code of Texas (Texas National Resource Code, Title 9, Chapter 191).

2.0 PROJECT AREA DESCRIPTION

The proposed water line installation project is broken up into five separate sections: a 0.2-mile section on Castroville Road and General McMullen Drive, a 0.26-mile section on Queretaro and Camilo Streets, a 0.17-mile section on Ceralvo and Amerada Streets, a 0.31-mile section on Cupples Road and Brady Boulevard, and a 0.76-mile section on Malone and Zarzamora Street in western San Antonio, Bexar County, Texas (Exhibits 1 and 2). At this time, Terracon understands that the project includes the installation of a 12-inch diameter water line, but the extent of ground disturbing activities, both horizontally and vertically is not known. Therefore, this assessment review includes the full width of the ROW at the proposed installation area.

3.0 ENVIRONMENTAL SETTING

Environments are composed of such interconnected elements as underlying bedrock geology, soil, biology (i.e., plants and animals), and climate. Environmental conditions are also connected to the initial patterning and subsequent preservation of materials left behind by humans, the culmination of which is referred to as site formation processes. Understanding site formation processes aids in assessing the presence and preservation of cultural resources. It is therefore important to consider environmental conditions of the past and present when assessing cultural resources of all ages. Cultural factors also play a role in the patterning of cultural resources, and these factors may be most apparent with historic sites. These factors may include but are certainly not limited to distances from transportation corridors and/or trade nodes, as well as suitability of land to economic/sustenance strategy.

In general terms, the project area is located within the Northern Blackland Prairie (Griffith et al. 2007). The Northern Blackland Prairie is characterized topographically by nearly flat to rolling plains. The Northern Blackland Prairie was at one point a diverse, productive grassland with wooded stream bottoms, but most of it has been converted to agricultural purposes or urban sprawl.

3.1 Geology

Bedrock geology of the APE is primarily mapped as Pleistocene and Holocene age fluviatile terrace deposits (Qt). The low terrace deposits are composed of gravel, sand, silt, clay, and organic material, and mostly above flood level (Barnes 1976).

3.2 Soils

Soil formation is a function of local climate, biology, parent material, topography, and time, and so it is clearly tied to environment as defined above. Accordingly, soil can serve as a proxy for environmental conditions of the present and past. Defining soils as they are relevant to investigations of cultural resources, however, is useful because of how they are characterized and mapped by the Natural Resources Conservation Service, formerly Soil Conservation Service. Though agricultural in nature, county soil surveys provide a description of soil characteristics, including depth, color, inclusions, etc., which can be used to elucidate site formation processes.

The project area has one soil type mapped within it (Web Soil Survey 2019). A brief description of the soil type found in the in Table 1.

.

Table 1: Soils of Proposed Project Area

Soil Name	Description
Branyon Clay	Very deep, moderately well drained, very slowly permeable, formed in calcareous clayey alluvium derived from Pleistocene mudstones.

4.0 CULTURAL HISTORY

Generally, the cultural chronology of Texas can be divided into two periods, Prehistoric and Historic. The boundary between the two periods is marked by the introduction of Europeans into the Western Hemisphere. The following brief description of Central Texas' prehistoric cultural history is a gross compilation of a vast suite of data and interpretations (cf. Collins 1995, 2004).

The Prehistoric people of Texas were primarily hunter-gatherers. Through the last 75-plus years of archaeological research in the region, identifiable and repeated patterns in artifact assemblages have indicated major shifts in subsistence strategies and technology through time. As a result, the Prehistoric period now has three subdivisions: Paleoindian, Archaic, and Late Prehistoric.

Sometimes referred to as Protohistoric period, the Spanish *Entradas*, or expeditions, mark the onset of western influence in the New World. These explorations effectively scouted the new land and resulted in the settlement and establishment of missions spread throughout what has become northern Mexico and Texas. Missions were strategic points for Spanish colonization, and then later for Mexico, Texas, and the United States during conflicts over Texas (Fehrenbach 2010).

Through the Historic period, European populations and influence steadily increased as native populations steadily diminished.

5.0 POTENTIAL ARCHAEOLOGICAL LIABILITY MAP

Additionally, the Texas Department of Transportation (TxDOT) San Antonio Area Potential Archeological Liability Map (PALM), which compiles environmental and land use data into a geographic information system intended to help TxDOT manage resources, was referenced as a best practice commonly employed by regulatory archaeologists. The PALM indicates that the majority of the project area is rated as having low shallow potential, moderate deep potential for buried cultural deposits. Part of the section of the project on Brady Boulevard is rated as moderate potential, and the very northern end of the section on Zarzamora Street is rated at moderate shallow potential and high deep potential (Exhibit 3).

6.0 RESULTS

Terracon conducted an online search of the Texas Archeological Sites Atlas (Atlas), National Register of Historic Places (NRHP), historic aerial photographs, and historic topographic maps to identify known cultural resources.

According to the Atlas, there are no previously recorded archaeological sites at the project area and only one site that is within a one-kilometer radius. The site, 41BX2078, a historic well, is located approximately 0.98 kilometers to the southwest of the water line section on Malone and Zarzamora Streets. Two previously recorded cultural resource surveys took place within one-kilometer of the project area, one on Cupples road conducted on behalf of the city in 2013 and one on Frio City Road near the Malone/Zarzamora Section, which was conducted by AmaTerra on behalf of the City as well as Housing and Urban Development as part of a project by Habitat for Humanity in 2013. The Atlas also shows that the section of the project area on General McMullen Drive is adjacent to a historical cemetery (Exhibit 4). The proposed improvements on General McMullen Drive from Morelia Street to Castroville Road will take place in the ROW that borders the San Fernando Cemetery Number 2. The cemetery was first opened in 1921 and was administered by the San Fernando Cathedral Parish until 1942, when they became the responsibility of the archdiocese (Wright 2010).

Review of available aerial photographs (c. 1955, 1963, 1966, 1973, 1986, 1995, 2004, 2008, 2010, and 2014) and historic topographic maps (c. 1959, 1970, 1985, 1993, 2013, and 2016) indicate little change has occurred at the project area over the time period that photos are available.

The nearest NRHP listed historic property, the Bungalow Colony Historic District, is located approximately 1.3 miles southwest of the project area outside of Kelly Air Force Base.

7.0 CONCLUSIONS AND RECOMMENDATIONS

No prehistoric or historic-age archaeological sites are documented within the proposed project area. Considering the lack of previous archaeological investigations, as well as the proximity of sensitive cultural resources, Terracon anticipates that field-based investigations will be required in compliance with the Antiquities Code of Texas. This review may be used to coordinate further actions with the Texas Historical Commission and the City of San Antonio Office of Historic Preservation.

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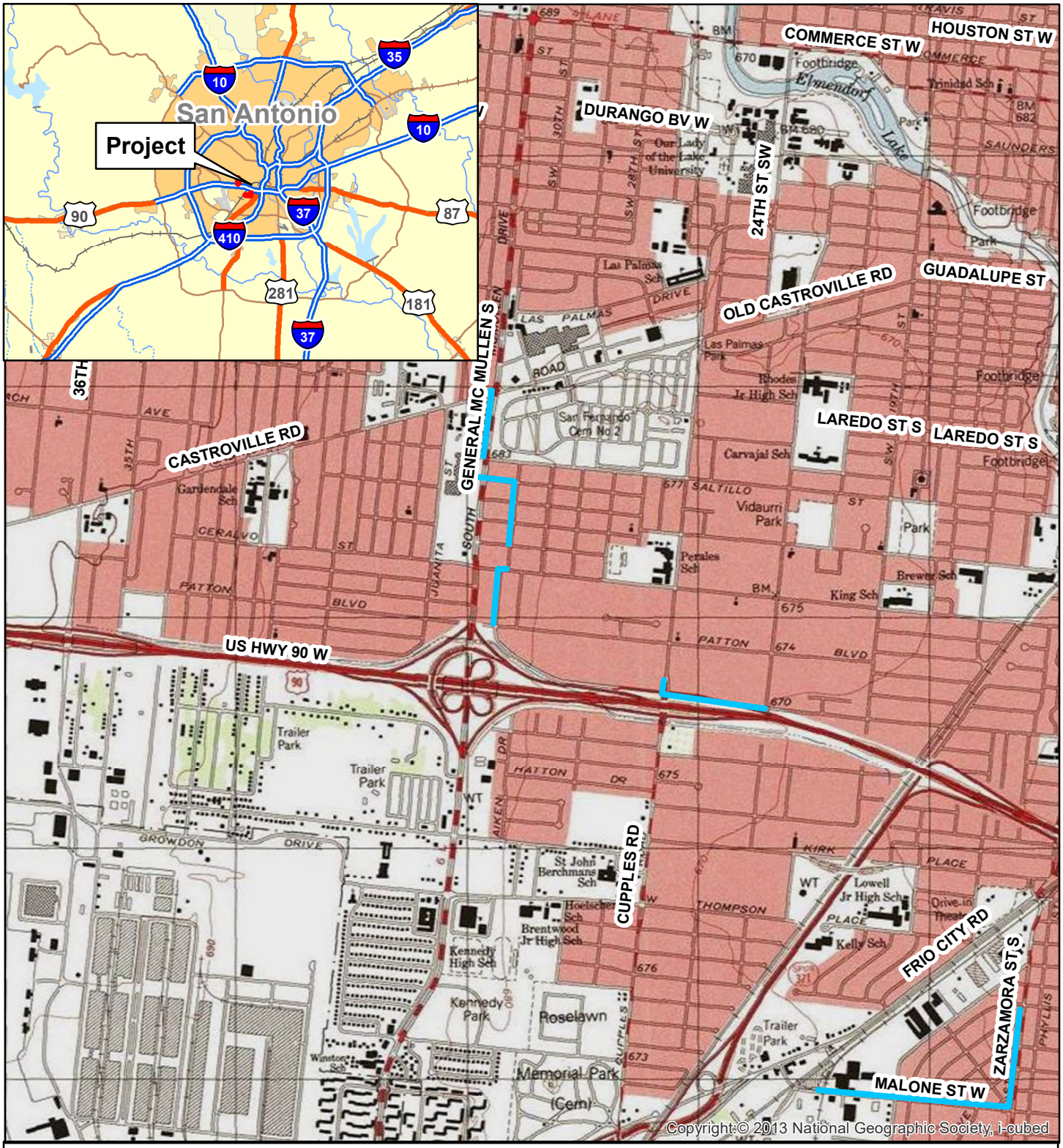
Texas Historical Commission
2019 *Texas Archaeological Sites Atlas*, Texas Historical Commission. (https://atlas.thc.state.tx.us/)

APPENDIX A
Maps



Legend

Proposed Water Line Installation

N W E S

2,000 1,000 0 2,000 Feet

Project Mngr:	JTP
Drawn By:	JM
Checked By:	DY
Approved By:	DY

Project No.	90197228
Scale:	1 in = 2,000 ft
TBPE Firm No.	F-3272
Date:	July 2019

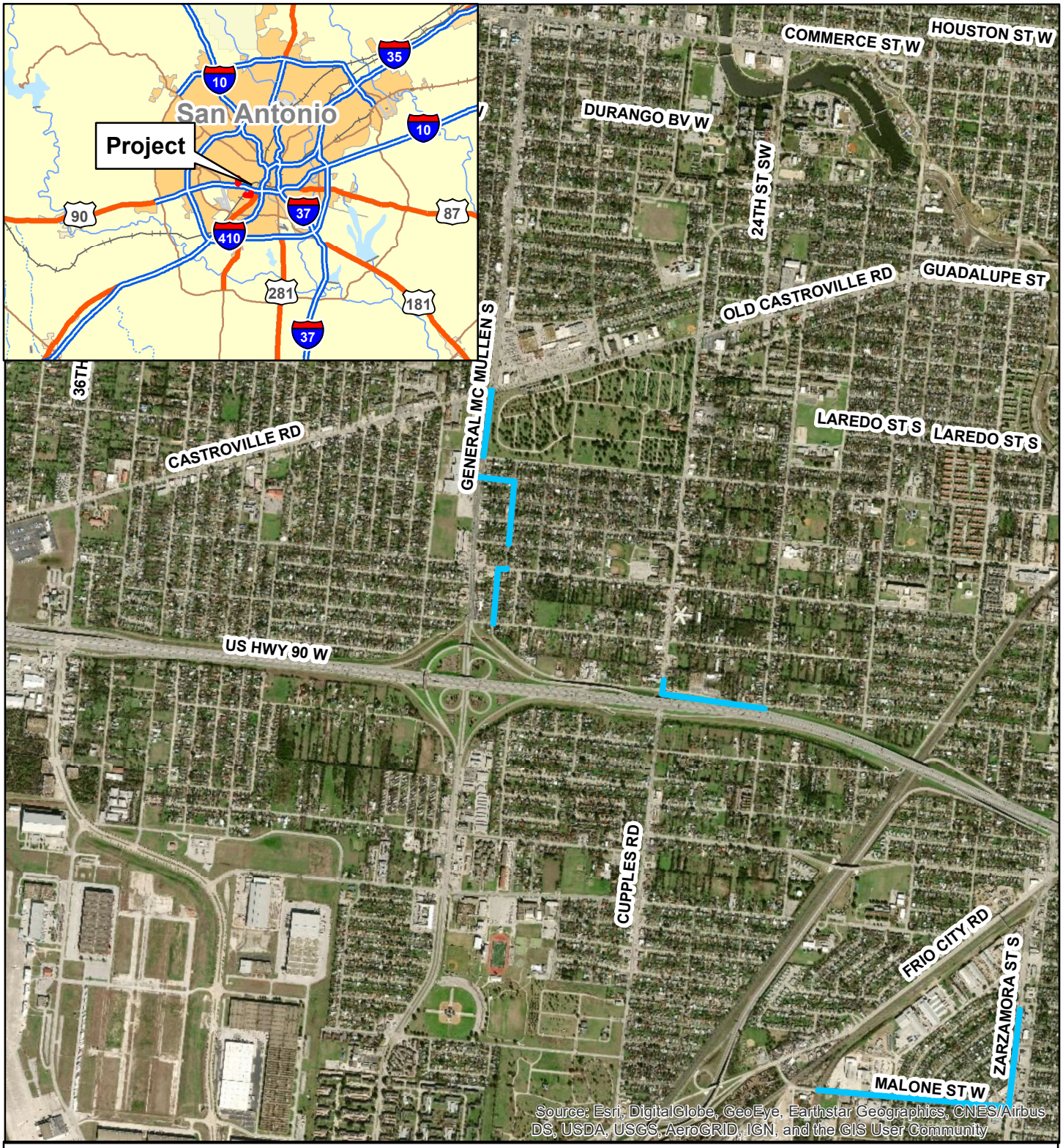
Terracon
Consulting Engineers & Scientists
6911 Blanco Road San Antonio, TX 78216
PH (210) 641-2112 Fax (210) 641-2124

Topographic Map

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

1



Legend

Proposed Water Line Installation

N
W E
S

2,000 1,000 0 2,000
Feet

Project Mngr:	JTP
Drawn By:	JM
Checked By:	DY
Approved By:	DY

Project No.	90197228
Scale:	1 in = 2,000 ft
TBPE Firm No.	F-3272
Date:	July 2019

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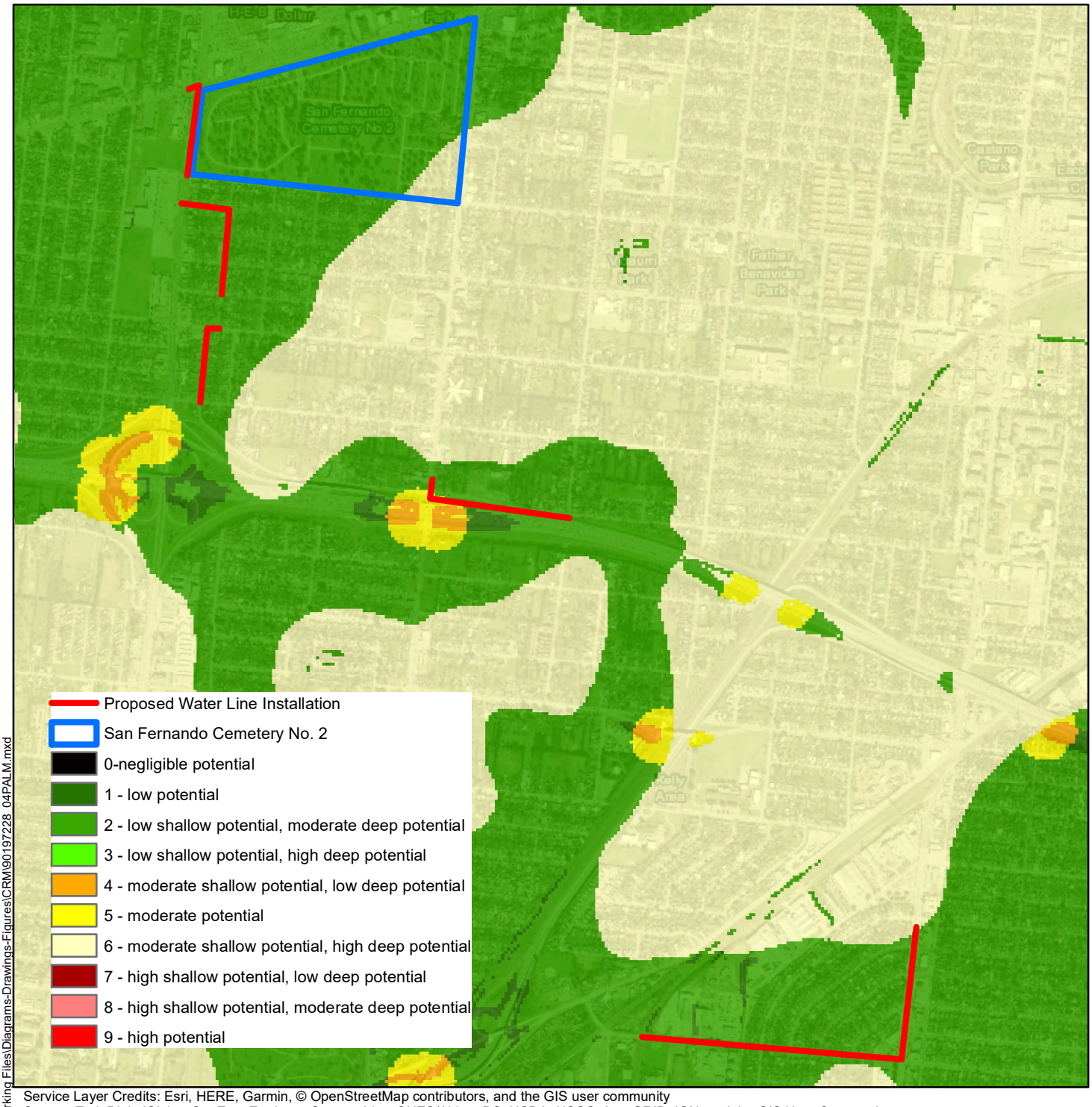
Aerial Map

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

2



Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N
W E
S

1,500 750 0 1,500
Feet

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Project Mngr:	JP
Drawn By:	JM
Checked By:	DMY
Approved By:	DMY
Project No.	90197228
Scale:	1 in = 1,500 ft
TBPE Firm No.	F-3272
Date:	07-31-19

Terracon
Consulting Engineers & Scientists
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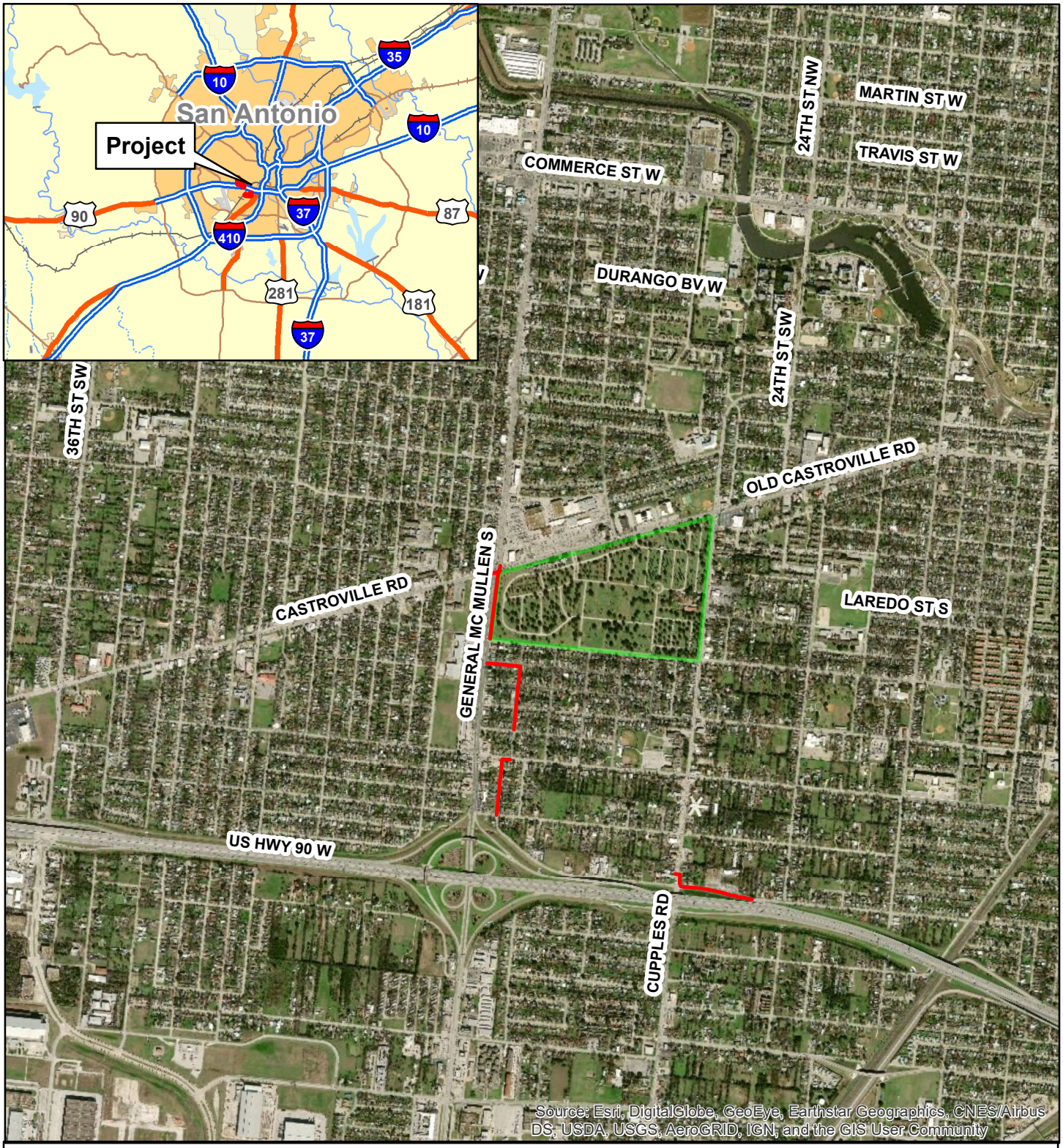
Projected Archaeological Liability Map (PALM)

US 90 Pressure Zone Integration
US Highway 90
San Antonio, Bexar County, Texas

Exhibit
3



Legend

- Project
- San Fernando Cemetery No. 2

N
W E
S

2,000 1,000 0 2,000
Feet

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Drawn By:	JM
Checked By:	DY
Approved By:	DY

Project No.	90197228
Scale:	1 in = 1,890.91 ft
TBPE Firm No.	F-3272
Date:	July 2019

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Desktop Review Results Map

HWY 90 and General McMullen
Pressure Zone Integration
San Antonio, Bexar County, Texas

Exhibit

4

Appendix B5
Hazardous Materials (Section 5.9)

GeoSearch
On time. On target. In touch.™

Radius Report

GeoLens by GeoSearch

Target Property:

SAWS Pressure Zone Integration
San Antonio, Bexar County, Texas 78237

Prepared For:

Terracon Consultants-San Antonio

Order #: 130523
Job #: 307469
Project #: 90197228
Date: 07/31/2019

Table of Contents

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Target Property Summary

Target Property Information

SAWS Pressure Zone Integration
San Antonio, Texas 78237

Coordinates
Point (-98.547841, 29.408976)
681 feet above sea level

USGS Quadrangle
San Antonio West, TX

Geographic Coverage Information

County/Parish: Bexar (TX)
ZipCode(s):
San Antonio TX: 78207, 78226, 78237

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSTX	0	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	0	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSTX	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
HISTORICAL GAS STATIONS	HISTPST	0	0	0.1250
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000

SUB-TOTAL		0	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
PETROLEUM STORAGE TANKS	PST	2	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	0	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	0	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	0	0	0.5000
STATE SUPERFUND SITES	SF	0	0	1.0000

SUB-TOTAL		2	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
GROUNDWATER CONTAMINATION CASES	GWCC	0	0	TP/AP
HISTORIC GROUNDWATER CONTAMINATION CASES	HISTGWCC	0	0	TP/AP
LAND APPLICATION PERMITS	LANDAPP	0	0	TP/AP
MUNICIPAL SETTING DESIGNATIONS	MSD	0	0	TP/AP
NOTICE OF VIOLATIONS	NOV	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
TCEQ LIENS	LIENS	0	0	TP/AP
TIER I I CHEMICAL REPORTING PROGRAM FACILITIES	TIERII	0	0	TP/AP
INDUSTRIAL AND HAZARDOUS WASTE SITES	IHW	0	0	0.1250
PERMITTED INDUSTRIAL HAZARDOUS WASTE SITES	PIHW	0	0	0.1250
DRY CLEANER REGISTRATION DATABASE	DCR	0	0	0.2500
AFFECTED PROPERTY ASSESSMENT REPORTS	APAR	0	0	0.5000
DRY CLEANER REMEDIATION PROGRAM SITES	DCRPS	0	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	0	0	0.5000
INNOCENT OWNER / OPERATOR DATABASE	IOP	0	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RECYCLING FACILITIES	WMRF	0	0	0.5000
SALT CAVERNS FOR PETROLEUM STORAGE	STCV	0	0	0.5000

Database Summary

SUB-TOTAL		*0*	*0*	

Database Summary

LOCAL LISTING

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EDWARDS AQUIFER PERMITS	EAP	0	0	TP/AP
SUB-TOTAL		0	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.1250
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		2	0	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSTX	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
FRSTX	0.0200	0	NS	NS	NS	NS	NS	0
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
HISTPST	0.1250	0	0	NS	NS	NS	NS	0
RCRAGR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
RCRANGR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

STATE (TX) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
GWCC	0.0200	0	NS	NS	NS	NS	NS	0
HISTGWCC	0.0200	0	NS	NS	NS	NS	NS	0
LANDAPP	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
MSD	0.0200	0	NS	NS	NS	NS	NS	0
NOV	0.0200	0	NS	NS	NS	NS	NS	0
SIEC01	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
TIERII	0.0200	0	NS	NS	NS	NS	NS	0
IHW	0.1250	0	0	NS	NS	NS	NS	0
PIHW	0.1250	0	0	NS	NS	NS	NS	0
DCR	0.2500	0	0	0	NS	NS	NS	0
PST	**0.2500**	**0**	**1**	**1**	**NS**	**NS**	**NS**	**2**
APAR	0.5000	0	0	0	0	NS	NS	0
BSA	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CALF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DCRPS	0.5000	0	0	0	0	NS	NS	0
IHWCA	0.5000	0	0	0	0	NS	NS	0
IOP	0.5000	0	0	0	0	NS	NS	0
LPST	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
MSWLF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RRCVCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RWS	0.5000	0	0	0	0	NS	NS	0
STCV	0.5000	0	0	0	0	NS	NS	0
VCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
WMRF	0.5000	0	0	0	0	NS	NS	0
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		0	1	1	0	0	0	2

Database Radius Summary

LOCAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
EAP	0.0200	0	NS	NS	NS	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
LUSTR06	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		0	1	1	0	0	0	2

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1

Target Property (TP)

PST

SAWS Pressure Zone Integration
San Antonio, Texas
78237

N
W E
S

0' 1000' 2000' 3000'

SCALE: 1" = 2000'

Click here to access Satellite view

Radius Map 2

Target Property (TP)

PST

SAWS Pressure Zone Integration
San Antonio, Texas
78237

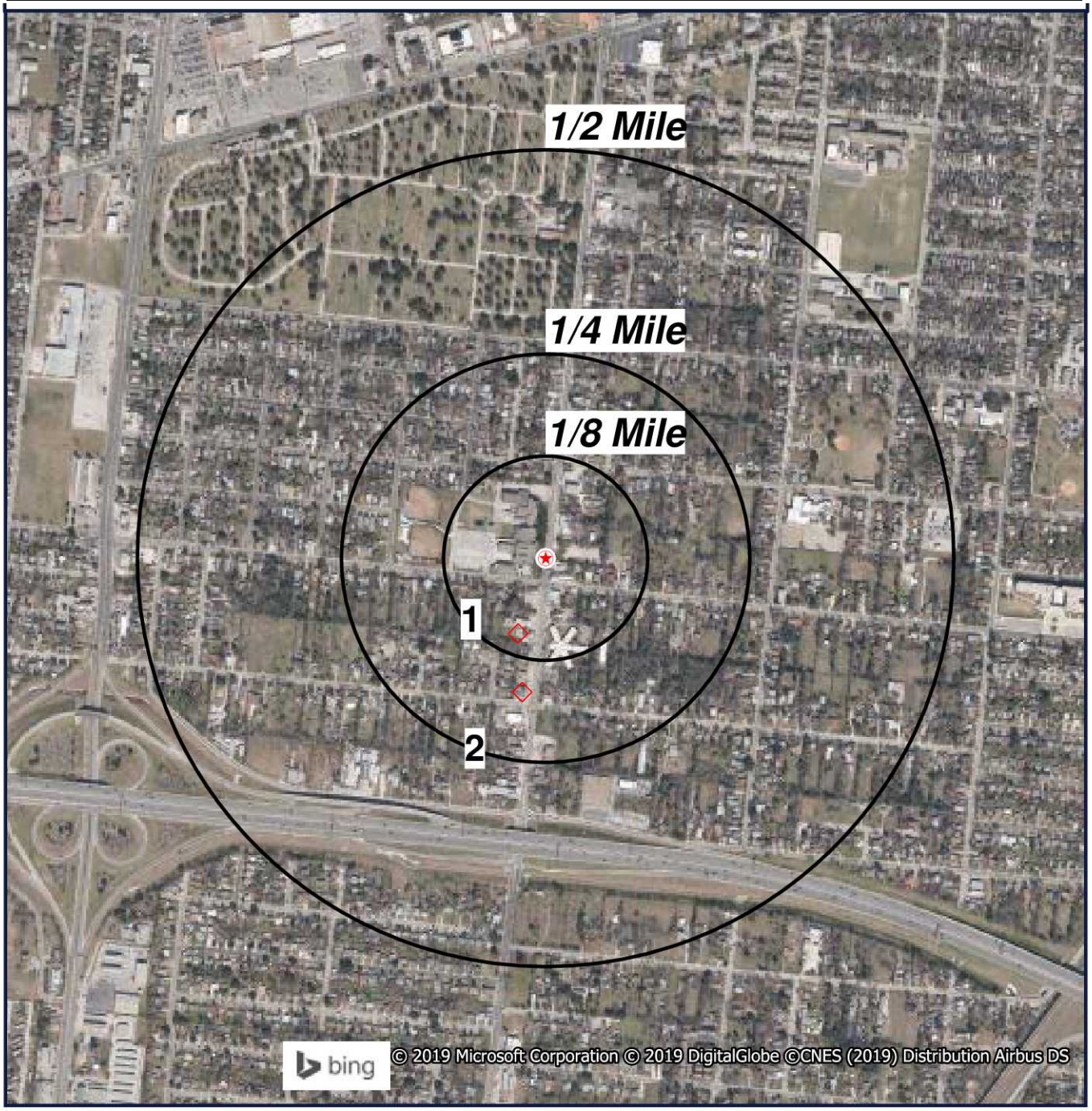
N
W E
S

0' 500' 1000' 1500'

SCALE: 1" = 1000'

[Click here to access Satellite view]

Ortho Map



Target Property (TP)
PST

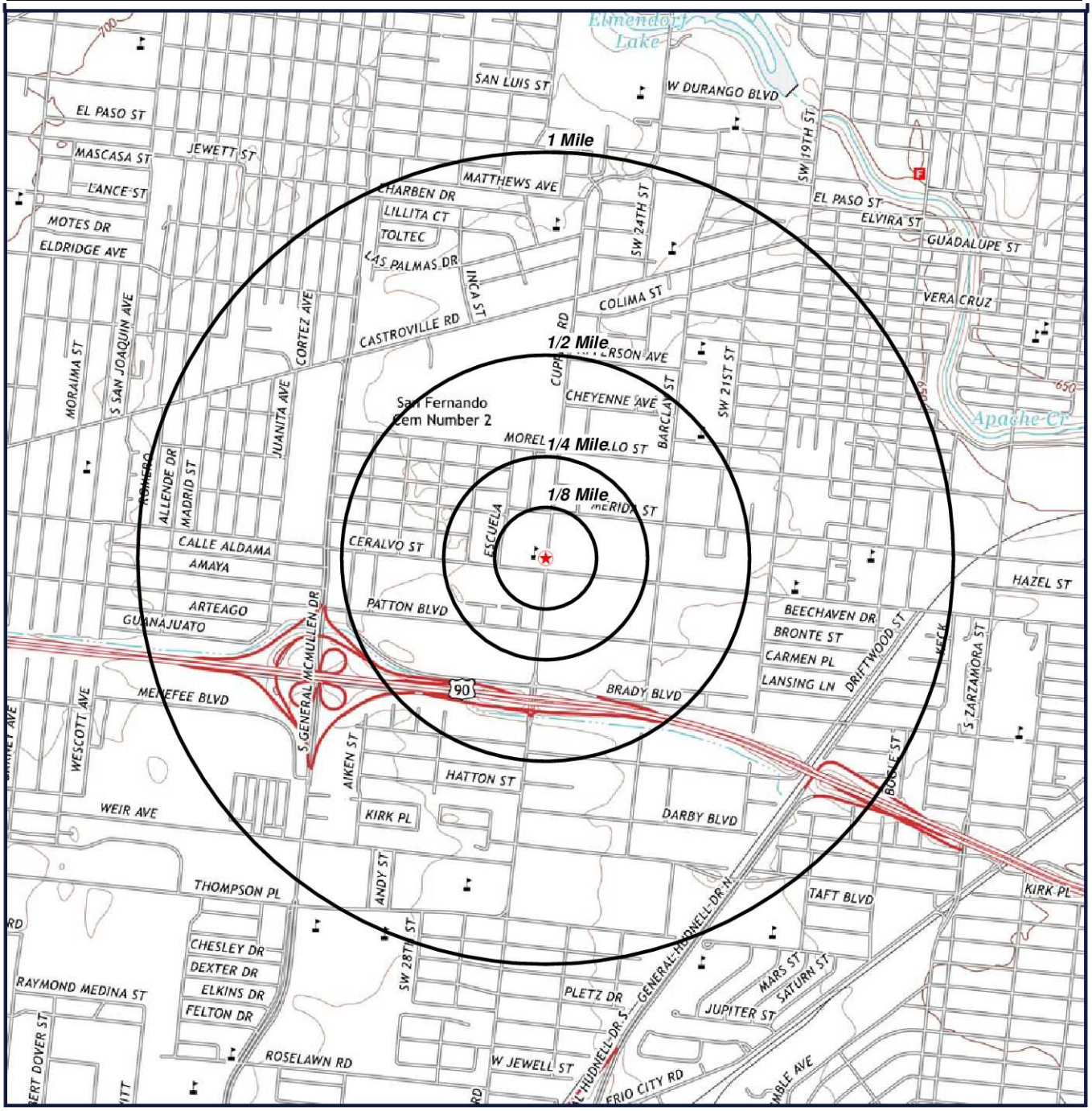
Quadrangle(s): San Antonio West
SAWS Pressure Zone Integration
San Antonio, Texas
78237

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

[Click here to access Satellite view]

Topographic Map



Target Property (TP)

Quadrangle(s): San Antonio West
Source: USGS, 02/22/2013
SAWS Pressure Zone Integration
San Antonio, Texas
78237

[Click here to access Satellite view]

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	PST	30824	Higher (682 ft.)	0.099 mi. SSW (523 ft.)	LATIENDA FOOD MART	627 CUPPLES RD, SAN ANTONIO, TX 78237	19
2	PST	49981	Higher (688 ft.)	0.167 mi. SSW (882 ft.)	EDGEWOOD ICE HOUSE	655 CUPPLES RD, SAN ANTONIO, TX 78237	24

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 681 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	PST	682 ft.	LATIENDA FOOD MART	627 CUPPLES RD, SAN ANTONIO, TX 78237	19
2	PST	688 ft.	EDGEWOOD ICE HOUSE	655 CUPPLES RD, SAN ANTONIO, TX 78237	24

LOWER ELEVATION

No Records Found

MAP ID# 1

Distance from Property: 0.099 mi. (523 ft.) SSW
Elevation: 682 ft. (Higher than TP)

FACILITY INFORMATION

ID#: **30824**
NAME: **LATIENDA FOOD MART**
ADDRESS: **627 CUPPLES RD**
SAN ANTONIO, TX 78237
COUNTY: **BEXAR**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **11/06/1986**
STATUS: **ACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **2**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **0**

CONTACT INFORMATION

NAME: **AHMED CHAROLIA**
TITLE: **NOT REPORTED**
ORGANIZATION: **LATIENDA FOOD MART**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(210) 4327678 0**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **04/30/2018**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/27/2018**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REPRESENTATIVE**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN604117648**
NAME: **AIRAH LLC**
CONTACT ADDRESS: **627 CUPPLES RD**
SAN ANTONIO TX 78237
TYPE: **ORGANIZATION**
BEGIN DATE: **04/01/2012**
CONTACT ROLE: **OWNCON**
CONTACT NAME: **SULEMAN MAKANI**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **AIRAH LLC**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

OPERATOR NUMBER: **CN604117648**
NAME: **AIRAH LLC**
CONTACT ADDRESS: **627 CUPPLES RD**
SAN ANTONIO TX 78237
TYPE: **ORGANIZATION**
BEGIN DATE: **04/01/2012**
CONTACT ROLE: **OPRCON**
CONTACT NAME: **AHMED CHAROLIA**
CONTACT TITLE: **NOT REPORTED**

ORGANIZATION: **AIRAH LLC**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

SELF-CERTIFICATION

SELF-CERTIFICATION ID: **303258**
SIGNATURE DATE: **04/27/2018**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REPRESENTATIVE**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **284584**
SIGNATURE DATE: **03/27/2017**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **267999**
SIGNATURE DATE: **04/04/2016**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **251873**
SIGNATURE DATE: **04/07/2015**
SIGNATURE NAME & TITLE: **AHMED CHAROLIA, OWNER/OPERATOR**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **234427**
SIGNATURE DATE: **03/25/2014**
SIGNATURE NAME & TITLE: **ASMITA MANSIVA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80438**
SIGNATURE DATE: **03/14/2013**
SIGNATURE NAME & TITLE: **ANIL MOMIN, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80437**
SIGNATURE DATE: **07/15/2012**
SIGNATURE NAME & TITLE: **ANIL MOMIN, REP**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80436**
SIGNATURE DATE: **06/14/2011**
SIGNATURE NAME & TITLE: **BARKAT ALI, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80435**
SIGNATURE DATE: **05/01/2007**

SIGNATURE NAME & TITLE: **MOHAMMED KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80434**
SIGNATURE DATE: **05/01/2006**
SIGNATURE NAME & TITLE: **MOHAMMEED KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80433**
SIGNATURE DATE: **04/14/2005**
SIGNATURE NAME & TITLE: **MOHAMMAD KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80432**
SIGNATURE DATE: **06/18/2004**
SIGNATURE NAME & TITLE: **MOHAMMED KASHMARI, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80431**
SIGNATURE DATE: **05/26/2003**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80430**
SIGNATURE DATE: **07/30/2002**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80429**
SIGNATURE DATE: **06/26/2001**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80428**
SIGNATURE DATE: **10/25/2000**
SIGNATURE NAME & TITLE: **CHOL CHOE, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**

CONSTRUCTION NOTIFICATION

NOTIFICATION CONSTRUCTION ID: **28964**
APPLICATION RECEIVED DATE: **02/03/2016**
SCHEDULE CONSTRUCTION DATE: **03/02/2016**
GENERAL DESCRIPTION OF PROPOSED CONSTRUCTION:
INSTALL NEW 4 ANODE CATHODIC PROTECTION GROUNDBED WITH ALL NEW NEGATIVE AND POSITIVE LEADS, INSTALL NEW RECTIFIER.

UNDERGROUND STORAGE TANK

TANK ID: **2** NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1985**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1985**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
CATHODIC PROTECTION - FIELD INSTALLATION
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **77285**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **GROUNDWATER MONITORING,MONITORING OF SECONDARY CONTAINMENT BARRIER,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FLOW RESTRICTOR VALUE**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
ANNUAL PIPING TIGHTNESS TEST / ANNUAL ELECTRONIC MONITORING (@ 0.1 GPH),SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1985**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1985**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
CATHODIC PROTECTION - FIELD INSTALLATION
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **77286**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **GROUNDWATER MONITORING,MONITORING OF SECONDARY CONTAINMENT BARRIER,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FLOW RESTRICTOR VALUE**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
ANNUAL PIPING TIGHTNESS TEST / ANNUAL ELECTRONIC MONITORING (@ 0.1 GPH),SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 2

Distance from Property: 0.167 mi. (882 ft.) SSW
Elevation: 688 ft. (Higher than TP)

FACILITY INFORMATION

ID#: **49981**
NAME: **EDGEWOOD ICE HOUSE**
ADDRESS: **655 CUPPLES RD**
SAN ANTONIO, TX 78237
COUNTY: **BEXAR**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **01/29/1990**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **0**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **0**

CONTACT INFORMATION

NAME: **PEDRO D MALDONADO**
TITLE: **OWNER**
ORGANIZATION: **EDGEWOOD ICE HOUSE**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 4324030 0**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **01/15/1990**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **01/11/1990**
SIGNATURE NAME & TITLE: **SAME, SAME**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN600930325**
NAME: **EDGEWOOD ICE HOUSE**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **ORGANIZATION**
BEGIN DATE: **01/29/1990**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **2**
INSTALLATION DATE: **01/01/1979**
TANK CAPACITY (GAL): **8000**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **01/15/1990**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **06/02/1995**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **130613**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **8000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1979**
REGISTRATION DATE: **01/15/1990**
TANK CAPACITY (GAL): **8000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **06/02/1995**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **130614**

TANK ID: **1**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **8000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 12/29/18

The U.S. Department of Justice ("the Department") provides this information 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination. The data included in this report was extracted from the final CERCLIS dataset (CERCLIS was a Superfund data system that EPA decommissioned in 2014 following its deployment of the Superfund Enterprise Management System), which represents program progress as of the end of fiscal year 2013.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 03/09/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSTX Emergency Response Notification System

VERSION DATE: 04/07/19

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSTX Facility Registry System

VERSION DATE: 04/05/19

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 04/14/19

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 03/09/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System

VERSION DATE: 09/14/18

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 04/24/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States

Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

HISTPST Historical Gas Stations

VERSION DATE: NR

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.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 03/01/19

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 03/09/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) 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.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 03/15/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 03/31/19

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 06/11/19

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 04/01/19

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 06/11/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 06/11/19

The U.S. Environmental Protection Agency’s (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 03/19/19

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). The inventory contains information on the location, type,

and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory 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.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 04/01/19

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

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.

NPL National Priorities List

VERSION DATE: 06/11/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 06/11/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 05/14/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

GWCC Groundwater Contamination Cases

VERSION DATE: 12/31/17

This is a Joint Groundwater Monitoring and Contamination Report provided by the Texas Commission on Environmental Quality (TCEQ). 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.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/16

This is a Joint Groundwater Monitoring and Contamination Report provided by the Texas Commission on Environmental Quality (TCEQ) that includes historic groundwater contamination cases reported since 1994. These cases have been closed by a program area or agency, such as the TCEQ, the Railroad Commission of Texas, and/or the Texas Alliance of Groundwater Districts. According to the TCEQ report, although enforcement actions may be closed on these cases, the Activity Status Code descriptions allow that groundwater contamination may still be present at the site and may therefore be of interest to regulatory agencies and the general public.

LANDAPP Land Application Permits

VERSION DATE: 01/03/19

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.

LIENS TCEQ Liens

VERSION DATE: 06/06/18

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

MSD Municipal Setting Designations

VERSION DATE: 01/16/19

The Texas Commission on Environmental Quality (TCEQ) defines an MSD as 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. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

Environmental Records Definitions - STATE (TX)

TCEQ Disclaimer: This data is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

NOV Notice of Violations

VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 01/01/19

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS Spills Listing

VERSION DATE: 02/07/19

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

TIERII Tier I I Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports. This data contains those facility reports for the 2005 through the 2012 calendar years. Please contact the Texas Commission on Environmental Quality Tier II Chemical Reporting Division as the current source for this data, due to confidentiality and safety reasons details such as the location and capacity of on-site hazardous chemicals is only available to local emergency planning agencies, fire departments, and/or owners.

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 05/02/19

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 05/02/19

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

DCR Dry Cleaner Registration Database

VERSION DATE: 06/04/19

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

PST Petroleum Storage Tanks

VERSION DATE: 05/02/19

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

APAR Affected Property Assessment Reports

VERSION DATE: 04/05/19

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) 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 COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA Brownfields Site Assessments

VERSION DATE: 05/06/19

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

CALF Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 03/01/19

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, 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.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 04/05/19

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

IOP Innocent Owner / Operator Database

VERSION DATE: 01/01/19

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is 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. The IOP database is maintained by the Texas Commission on Environmental Quality.

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 06/04/19

The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 06/07/19

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 04/18/19

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 05/17/19

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of

the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

SF State Superfund Sites

VERSION DATE: 01/16/19

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This listing includes any recent developments and the anticipated action for these sites as documented in the annual state Superfund registry publication of the Texas Register as well as the Superfund Webpage on the TCEQ website.

Environmental Records Definitions - LOCAL

EAP Edwards Aquifer Permits

VERSION DATE: 07/21/06

This database, maintained by the Texas Commission on Environmental Quality, contains Edward Aquifer permits.

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 11/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 11/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

GeoSearch
On time. On target. In touch.™

Radius Report

GeoLens by GeoSearch

Target Property:

SAWS Pressure Zone Integration
San Antonio, Bexar County, Texas 78207

Prepared For:

Terracon Consultants-San Antonio

Order #: 130524
Job #: 307470
Project #: 90197228
Date: 07/31/2019

Table of Contents

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This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR Â§312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFRÂ§312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

SAWS Pressure Zone Integration
San Antonio, Texas 78207

Coordinates
Point (-98.546616, 29.404238)
675 feet above sea level

USGS Quadrangle
San Antonio West, TX

Geographic Coverage Information

County/Parish: Bexar (TX)
ZipCode(s):
San Antonio TX: 78207, 78225, 78226, 78237

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSTX	0	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	0	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSTX	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
HISTORICAL GAS STATIONS	HISTPST	0	0	0.1250
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000

SUB-TOTAL		0	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
PETROLEUM STORAGE TANKS	PST	2	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	0	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	2	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	0	0	0.5000
STATE SUPERFUND SITES	SF	0	0	1.0000
SUB-TOTAL		4	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
GROUNDWATER CONTAMINATION CASES	GWCC	0	0	TP/AP
HISTORIC GROUNDWATER CONTAMINATION CASES	HISTGWCC	0	0	TP/AP
LAND APPLICATION PERMITS	LANDAPP	0	0	TP/AP
MUNICIPAL SETTING DESIGNATIONS	MSD	0	0	TP/AP
NOTICE OF VIOLATIONS	NOV	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
TCEQ LIENS	LIENS	0	0	TP/AP
TIER I I CHEMICAL REPORTING PROGRAM FACILITIES	TIERII	0	0	TP/AP
INDUSTRIAL AND HAZARDOUS WASTE SITES	IHW	0	0	0.1250
PERMITTED INDUSTRIAL HAZARDOUS WASTE SITES	PIHW	0	0	0.1250
DRY CLEANER REGISTRATION DATABASE	DCR	0	0	0.2500
AFFECTED PROPERTY ASSESSMENT REPORTS	APAR	0	0	0.5000
DRY CLEANER REMEDIATION PROGRAM SITES	DCRPS	0	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	0	0	0.5000
INNOCENT OWNER / OPERATOR DATABASE	IOP	0	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RECYCLING FACILITIES	WMRF	0	0	0.5000
SALT CAVERNS FOR PETROLEUM STORAGE	STCV	0	0	0.5000

SUB-TOTAL		*0*	*0*	

Database Summary

LOCAL LISTING

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EDWARDS AQUIFER PERMITS	EAP	0	0	TP/AP
SUB-TOTAL		0	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.1250
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		4	0	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSTX	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
FRSTX	0.0200	0	NS	NS	NS	NS	NS	0
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
HISTPST	0.1250	0	0	NS	NS	NS	NS	0
RCRAGR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
RCRANGR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

STATE (TX) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
GWCC	0.0200	0	NS	NS	NS	NS	NS	0
HISTGWCC	0.0200	0	NS	NS	NS	NS	NS	0
LANDAPP	0.0200	0	NS	NS	NS	NS	NS	0
LIENS	0.0200	0	NS	NS	NS	NS	NS	0
MSD	0.0200	0	NS	NS	NS	NS	NS	0
NOV	0.0200	0	NS	NS	NS	NS	NS	0
SIEC01	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
TIERII	0.0200	0	NS	NS	NS	NS	NS	0
IHW	0.1250	0	0	NS	NS	NS	NS	0
PIHW	0.1250	0	0	NS	NS	NS	NS	0
DCR	0.2500	0	0	0	NS	NS	NS	0
PST	**0.2500**	**0**	**0**	**2**	**NS**	**NS**	**NS**	**2**
APAR	0.5000	0	0	0	0	NS	NS	0
BSA	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
CALF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DCRPS	0.5000	0	0	0	0	NS	NS	0
IHWCA	0.5000	0	0	0	0	NS	NS	0
IOP	0.5000	0	0	0	0	NS	NS	0
LPST	**0.5000**	**0**	**0**	**0**	**2**	**NS**	**NS**	**2**
MSWLF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RRCVCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
RWS	0.5000	0	0	0	0	NS	NS	0
STCV	0.5000	0	0	0	0	NS	NS	0
VCP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
WMRF	0.5000	0	0	0	0	NS	NS	0
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		0	0	2	2	0	0	4

Database Radius Summary

LOCAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
EAP	0.0200	0	NS	NS	NS	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
LUSTR06	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		0	0	2	2	0	0	4

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1

Target Property (TP)
PST
LPST

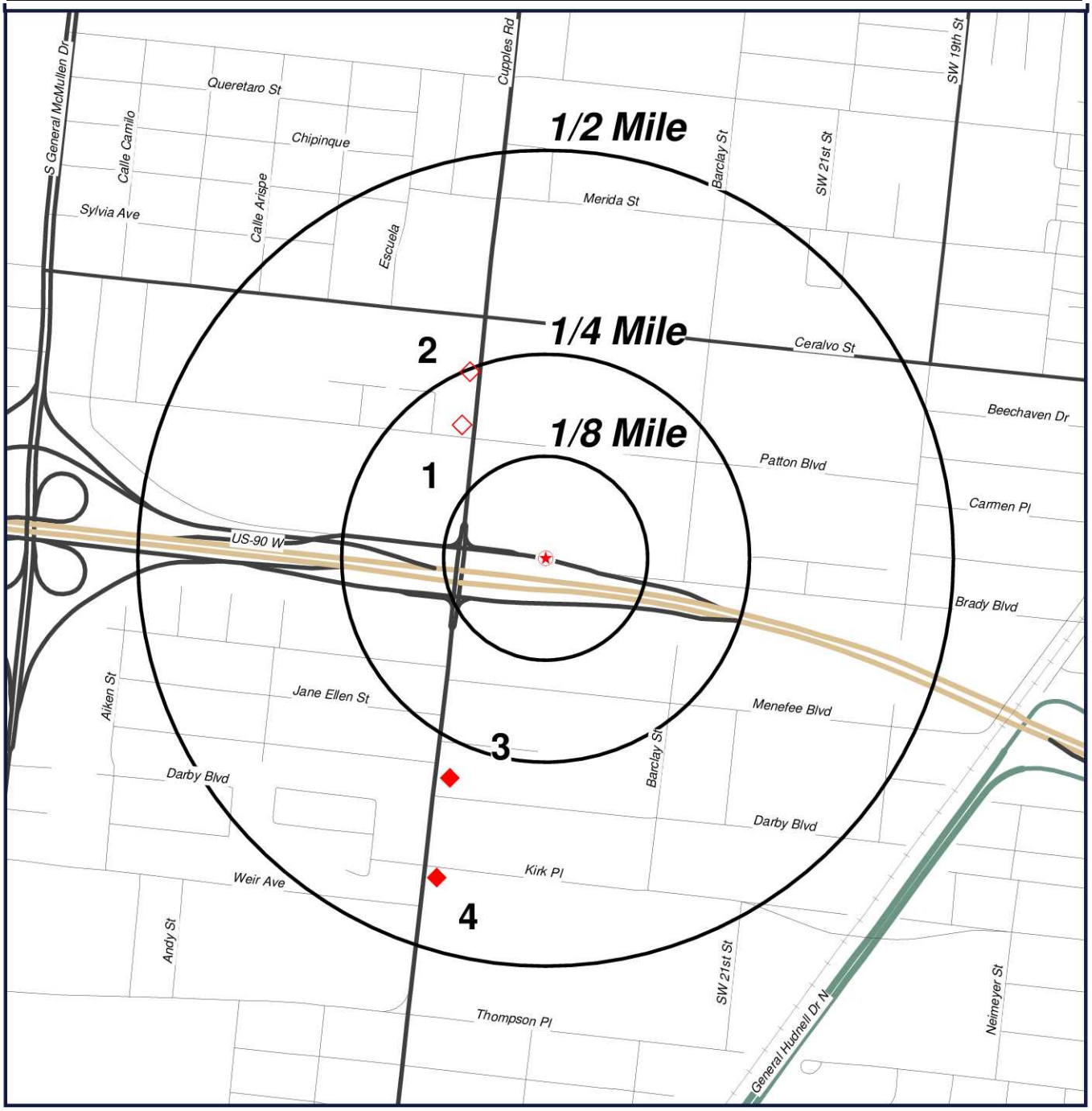
SAWS Pressure Zone Integration
San Antonio, Texas
78207

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

Radius Map 2



Target Property (TP)
PST
LPST

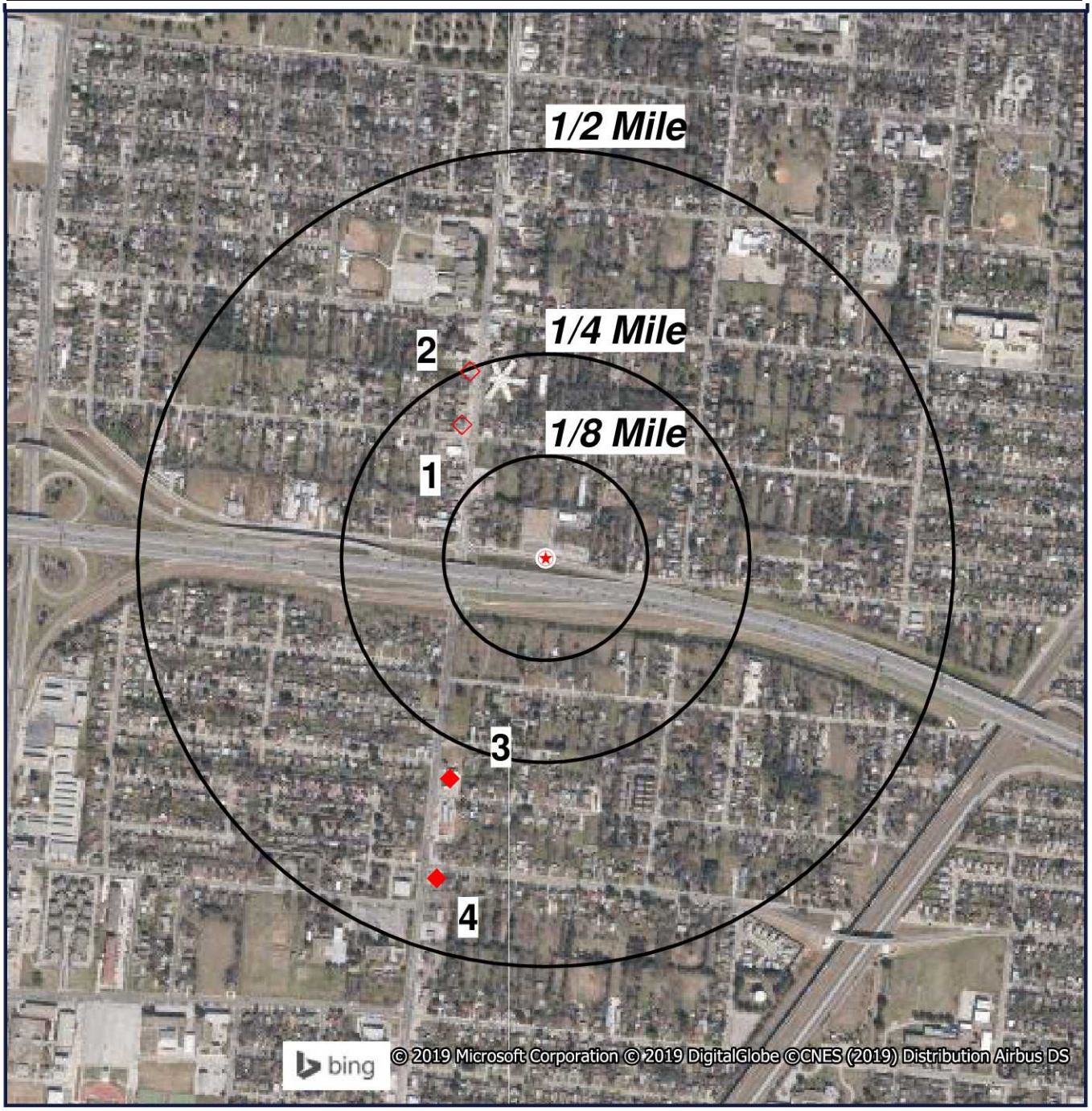
SAWS Pressure Zone Integration
San Antonio, Texas
78207

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

Click here to access Satellite view

Ortho Map



Target Property (TP)
PST
LPST

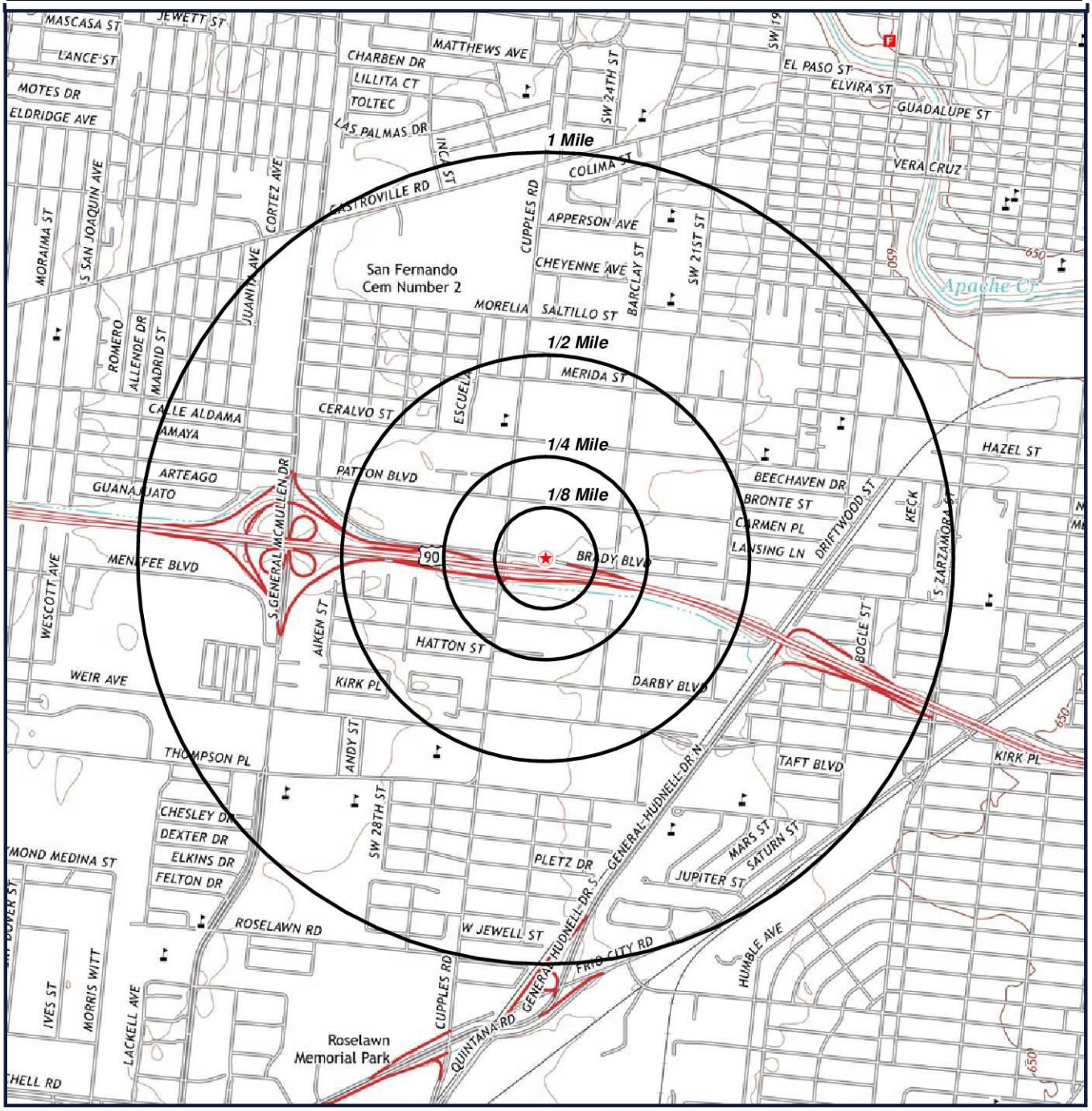
Quadrangle(s): San Antonio West
SAWS Pressure Zone Integration
San Antonio, Texas
78207

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

[Click here to access Satellite view]

Topographic Map



Target Property (TP)

Quadrangle(s): San Antonio West
Source: USGS, 02/22/2013
SAWS Pressure Zone Integration
San Antonio, Texas
78207

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

[Click here to access Satellite view]

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	PST	49981	Higher (688 ft.)	0.192 mi. NW (1014 ft.)	EDGEWOOD ICE HOUSE	655 CUPPLES RD, SAN ANTONIO, TX 78237	19
2	PST	30824	Higher (688 ft.)	0.246 mi. NNW (1299 ft.)	LATIENDA FOOD MART	627 CUPPLES RD, SAN ANTONIO, TX 78237	22
3	LPST	116906	Higher (680 ft.)	0.295 mi. SSW (1558 ft.)	SUNGLO NO 18	946 CUPPLES RD, SAN ANTONIO, TX 78237	27
4	LPST	100150	Higher (679 ft.)	0.414 mi. SSW (2186 ft.)	O R TAP ROOM	1102 CUPPLES RD, SAN ANTONIO, TX 78226	31

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 675 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	PST	688 ft.	EDGEWOOD ICE HOUSE	655 CUPPLES RD, SAN ANTONIO, TX 78237	19
2	PST	688 ft.	LATIENDA FOOD MART	627 CUPPLES RD, SAN ANTONIO, TX 78237	22
3	LPST	680 ft.	SUNGLO NO 18	946 CUPPLES RD, SAN ANTONIO, TX 78237	27
4	LPST	679 ft.	O R TAP ROOM	1102 CUPPLES RD, SAN ANTONIO, TX 78226	31

LOWER ELEVATION

No Records Found

MAP ID# 1

Distance from Property: 0.192 mi. (1,014 ft.) NW
Elevation: 688 ft. (Higher than TP)

FACILITY INFORMATION

ID#: **49981**
NAME: **EDGEWOOD ICE HOUSE**
ADDRESS: **655 CUPPLES RD**
SAN ANTONIO, TX 78237
COUNTY: **BEXAR**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **01/29/1990**
STATUS: **INACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **0**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **0**

CONTACT INFORMATION

NAME: **PEDRO D MALDONADO**
TITLE: **OWNER**
ORGANIZATION: **EDGEWOOD ICE HOUSE**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(512) 4324030 0**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **01/15/1990**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **01/11/1990**
SIGNATURE NAME & TITLE: **SAME, SAME**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN600930325**
NAME: **EDGEWOOD ICE HOUSE**
CONTACT ADDRESS: **OWNER ADDRESS NOT REPORTED**
CITY NOT REPORTED
TYPE: **ORGANIZATION**
BEGIN DATE: **01/29/1990**
CONTACT ROLE: **NOT REPORTED**
CONTACT NAME: **NOT REPORTED**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **NOT REPORTED**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION

-**NO SELF-CERTIFICATION INFORMATION REPORTED-**

CONSTRUCTION NOTIFICATION

NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: **2**
INSTALLATION DATE: **01/01/1979**
TANK CAPACITY (GAL): **8000**
NUMBER OF COMPARTMENTS: **1**
REGISTRATION DATE: **01/15/1990**
EMPTY TANK: **NOT EMPTY**

STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **06/02/1995**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **130613**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **8000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1979**
REGISTRATION DATE: **01/15/1990**
TANK CAPACITY (GAL): **8000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **06/02/1995**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **NO**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **NO**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:

NOT REPORTED

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **130614**

TANK ID: **1**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **8000**

COMPARTMENT RELEASE DETECTION: **NOT REPORTED**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**

CORROSION PROTECTION: **NOT REPORTED**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

NOT REPORTED

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 2

Distance from Property: 0.246 mi. (1,299 ft.) NNW
Elevation: 688 ft. (Higher than TP)

FACILITY INFORMATION

ID#: **30824**
NAME: **LATIENDA FOOD MART**
ADDRESS: **627 CUPPLES RD**
SAN ANTONIO, TX 78237
COUNTY: **BEXAR**
REGION: **13**
TYPE: **RETAIL**
BEGIN DATE: **11/06/1986**
STATUS: **ACTIVE**
EXEMPT STATUS: **NO**
RECORDS OFF-SITE: **NO**
NUMBER OF ACTIVE UNDERGROUND TANKS: **2**
NUMBER OF ACTIVE ABOVEGROUND TANKS: **0**

CONTACT INFORMATION

NAME: **AHMED CHAROLIA**
TITLE: **NOT REPORTED**
ORGANIZATION: **LATIENDA FOOD MART**
MAIL ADDRESS: **MAILING ADDRESS NOT REPORTED**
CITY NOT REPORTED
PHONE: **(210) 4327678 0**

APPLICATION INFORMATION:

RECEIVED DATE ON EARLIEST REGISTRATION FORM: **04/30/2018**
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: **04/27/2018**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REPRESENTATIVE**
ENFORCEMENT ACTION DATE: **NOT REPORTED**

OWNER

OWNER NUMBER: **CN604117648**
NAME: **AIRAH LLC**
CONTACT ADDRESS: **627 CUPPLES RD**
SAN ANTONIO TX 78237
TYPE: **ORGANIZATION**
BEGIN DATE: **04/01/2012**
CONTACT ROLE: **OWNCON**
CONTACT NAME: **SULEMAN MAKANI**
CONTACT TITLE: **NOT REPORTED**
ORGANIZATION: **AIRAH LLC**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

OPERATOR

OPERATOR NUMBER: **CN604117648**
NAME: **AIRAH LLC**
CONTACT ADDRESS: **627 CUPPLES RD**
SAN ANTONIO TX 78237
TYPE: **ORGANIZATION**
BEGIN DATE: **04/01/2012**
CONTACT ROLE: **OPRCON**
CONTACT NAME: **AHMED CHAROLIA**
CONTACT TITLE: **NOT REPORTED**

ORGANIZATION: **AIRAH LLC**
PHONE: **NOT REPORTED**
FAX: **NOT REPORTED**
EMAIL: **NOT REPORTED**

SELF-CERTIFICATION

SELF-CERTIFICATION ID: **303258**
SIGNATURE DATE: **04/27/2018**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REPRESENTATIVE**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **284584**
SIGNATURE DATE: **03/27/2017**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **267999**
SIGNATURE DATE: **04/04/2016**
SIGNATURE NAME & TITLE: **SOMI MAREDIA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **251873**
SIGNATURE DATE: **04/07/2015**
SIGNATURE NAME & TITLE: **AHMED CHAROLIA, OWNER/OPERATOR**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **234427**
SIGNATURE DATE: **03/25/2014**
SIGNATURE NAME & TITLE: **ASMITA MANSIVA, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80438**
SIGNATURE DATE: **03/14/2013**
SIGNATURE NAME & TITLE: **ANIL MOMIN, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80437**
SIGNATURE DATE: **07/15/2012**
SIGNATURE NAME & TITLE: **ANIL MOMIN, REP**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80436**
SIGNATURE DATE: **06/14/2011**
SIGNATURE NAME & TITLE: **BARKAT ALI, REP**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80435**
SIGNATURE DATE: **05/01/2007**

SIGNATURE NAME & TITLE: **MOHAMMED KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80434**
SIGNATURE DATE: **05/01/2006**
SIGNATURE NAME & TITLE: **MOHAMMEED KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80433**
SIGNATURE DATE: **04/14/2005**
SIGNATURE NAME & TITLE: **MOHAMMAD KASHMARI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80432**
SIGNATURE DATE: **06/18/2004**
SIGNATURE NAME & TITLE: **MOHAMMED KASHMARI, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80431**
SIGNATURE DATE: **05/26/2003**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80430**
SIGNATURE DATE: **07/30/2002**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **RENEWAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80429**
SIGNATURE DATE: **06/26/2001**
SIGNATURE NAME & TITLE: **ELIAS KURI, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**
SELF-CERTIFICATION ID: **80428**
SIGNATURE DATE: **10/25/2000**
SIGNATURE NAME & TITLE: **CHOL CHOE, OWNER**
FILING STATUS: **INITIAL**
REGISTRATION FLAG: **YES**

CONSTRUCTION NOTIFICATION

NOTIFICATION CONSTRUCTION ID: **28964**
APPLICATION RECEIVED DATE: **02/03/2016**
SCHEDULE CONSTRUCTION DATE: **03/02/2016**
GENERAL DESCRIPTION OF PROPOSED CONSTRUCTION:
INSTALL NEW 4 ANODE CATHODIC PROTECTION GROUNDBED WITH ALL NEW NEGATIVE AND POSITIVE LEADS, INSTALL NEW RECTIFIER.

UNDERGROUND STORAGE TANK

TANK ID: **2** NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1985**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1985**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
FRP
CORROSION PROTECTION:
CATHODIC PROTECTION - FIELD INSTALLATION
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **77285**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **GROUNDWATER MONITORING,MONITORING OF SECONDARY CONTAINMENT BARRIER,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FLOW RESTRICTOR VALUE**

PIPING SYSTEMS

MATERIAL: **FRP**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
ANNUAL PIPING TIGHTNESS TEST / ANNUAL ELECTRONIC MONITORING (@ 0.1 GPH),SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1985**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1985**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES** TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **YES** PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

FRP

CORROSION PROTECTION:

CATHODIC PROTECTION - FIELD INSTALLATION

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **77286**

TANK ID: **1**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **12000**

COMPARTMENT RELEASE DETECTION: **GROUNDWATER MONITORING,MONITORING OF SECONDARY CONTAINMENT BARRIER,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FLOW RESTRICTOR VALUE**

PIPING SYSTEMS

MATERIAL: **FRP**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

PIPING RELEASE DETECTION:

ANNUAL PIPING TIGHTNESS TEST / ANNUAL ELECTRONIC MONITORING (@ 0.1 GPH),SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 3

Distance from Property: 0.295 mi. (1,558 ft.) SSW
Elevation: 680 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **116906**
LPST ID: **116906**
FACILITY ID: **18333**
NAME: **SUNGLO NO 18**
ADDRESS: **946 CUPPLES RD**
SAN ANTONIO, TX 78237

LEAKING TANK DETAILS

LPST ID: **116906**
NAME: **SUNGLO NO 18**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **4.1 - GW IMPACTED NO APPARENT THREATS OR IMPACTS TO RECEPTORS**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **6/28/06**
REPORTED DATE: **01/30/2006**
ENTERED DATE: **06/28/2006**
CLOSURE DATE: **05/15/2009**

PRP INFORMATION

NAME: **SUNGLO INC**
ADDRESS: **ADDRESS NOT REPORTED**
SAN ANTONIO TX 78217
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1971**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1971**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
NOT REPORTED
CORROSION PROTECTION:
EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP,CATHODIC PROTECTION - FACTORY INSTALLATION,COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE),EXTERNAL NONMETTALIC JACKET
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **40921**

TANK ID: **1**

COMPARTMENT LETTER: **A**

SUBSTANCES: **GASOLINE**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **12000**

COMPARTMENT RELEASE DETECTION: **VAPOR MONITORING,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL**

SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

EXTERNAL CONTAINMENT: **NOT REPORTED**

CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**

NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **01/01/1971**

REGISTRATION DATE: **05/08/1986**

TANK CAPACITY (GAL): **12000**

EMPTY TANK: **NOT EMPTY**

STATUS: **IN USE**

STATUS BEGIN DATE: **01/01/1971**

INTERNAL PROTECTION DATE: **NOT REPORTED**

REGULATORY STATUS: **FULLY REGULATED**

TANK DESIGN SINGLE WALL: **YES**

TANK DESIGN DOUBLE WALL: **NO**

PIPE DESIGN SINGLE WALL: **YES**

PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:

NOT REPORTED

CORROSION PROTECTION:

EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP,CATHODIC PROTECTION - FACTORY INSTALLATION,COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE),EXTERNAL NONMETTALIC JACKET

EXTERNAL CONTAINMENT:

NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **40922**

TANK ID: **2**

COMPARTMENT LETTER: **A**

SUBSTANCES: **DIESEL**

OTHER SUBSTANCES: **NOT REPORTED**

CAPACITY (GAL): **12000**

COMPARTMENT RELEASE DETECTION: **VAPOR MONITORING,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **01/01/1971**
REGISTRATION DATE: **05/08/1986**
TANK CAPACITY (GAL): **12000**
EMPTY TANK: **NOT EMPTY**
STATUS: **IN USE**
STATUS BEGIN DATE: **01/01/1971**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
NOT REPORTED
CORROSION PROTECTION:
EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP,CATHODIC PROTECTION - FACTORY INSTALLATION,COMPOSITE TANK (STEEL W/FRP EXTERNAL LAMINATE),EXTERNAL NONMETTALIC JACKET
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **YES**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **40923**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **12000**
COMPARTMENT RELEASE DETECTION: **VAPOR MONITORING,AUTOMATIC TANK GAUGE TEST & INVENTORY CONTROL**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP,FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE,ALARM (SET@<=90%) W3A OR 3B**

PIPING SYSTEMS

MATERIAL: **NOT REPORTED**
CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:

NOT REPORTED

CORROSION PROTECTION: **FRP TANK OR PIPING (NONCORRODIBLE)**

PIPE COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **YES**

CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

MAP ID# 4

Distance from Property: 0.414 mi. (2,186 ft.) SSW
Elevation: 679 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **100150**
LPST ID: **100150**
FACILITY ID: **49527**
NAME: **O R TAP ROOM**
ADDRESS: **1102 CUPPLES RD**
SAN ANTONIO, TX 78226

LEAKING TANK DETAILS

LPST ID: **100150**
NAME: **O R TAP ROOM**
FACILITY LOCATION: **NOT REPORTED**
PRIORITY CODE: **5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP**
CORRECTIVE ACTION STATUS CODE: **6A - FINAL CONCURRENCE ISSUED**
CORRECTIVE ACTION START DATE: **11/12/91**
REPORTED DATE: **08/15/1991**
ENTERED DATE: **11/12/1991**
CLOSURE DATE: **04/23/1992**

PRP INFORMATION

NAME: **WINKLER PARTNERS**
ADDRESS: **ADDRESS NOT REPORTED**
HONDO TX 78861
CONTACT: **NOT REPORTED**
PHONE: **NOT REPORTED**

UNDERGROUND STORAGE TANK

TANK ID: **1**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/07/1989**
TANK CAPACITY (GAL): **6000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **08/12/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG

CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **119742**
TANK ID: **1**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **6000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **2**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/07/1989**
TANK CAPACITY (GAL): **6000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **08/12/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **119741**
TANK ID: **2**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **6000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **3**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/07/1989**
TANK CAPACITY (GAL): **1000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **08/12/1991**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **119740**
TANK ID: **3**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **1000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **4**
NUMBER OF COMPARTMENTS: **1**

INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/07/1989**
TANK CAPACITY (GAL): **1000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

COMPARTMENT DETAILS

UST COMPARTMENT ID: **119743**
TANK ID: **4**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **1000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**

PIPING SYSTEMS

MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

TANK ID: **5**
NUMBER OF COMPARTMENTS: **1**
INSTALLATION DATE: **08/31/1987**
REGISTRATION DATE: **12/07/1989**
TANK CAPACITY (GAL): **1000**
EMPTY TANK: **NOT EMPTY**
STATUS: **REMOVED FROM GROUND**
STATUS BEGIN DATE: **08/31/1987**
INTERNAL PROTECTION DATE: **NOT REPORTED**
REGULATORY STATUS: **FULLY REGULATED**
TANK DESIGN SINGLE WALL: **YES**
TANK DESIGN DOUBLE WALL: **NO**
PIPE DESIGN SINGLE WALL: **YES**
PIPE DESIGN DOUBLE WALL: **NO**

TANK DETAILS

MATERIAL:
STEEL

CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**
COMPARTMENT DETAILS
UST COMPARTMENT ID: **119744**
TANK ID: **5**
COMPARTMENT LETTER: **A**
SUBSTANCES: **GASOLINE**
OTHER SUBSTANCES: **NOT REPORTED**
CAPACITY (GAL): **1000**
COMPARTMENT RELEASE DETECTION: **NOT REPORTED**
SPILL CONTAINMENT AND OVERFILL PREVENTION: **NOT REPORTED**
PIPING SYSTEMS
MATERIAL: **STEEL**
CORROSION PROTECTION: **NOT REPORTED**
EXTERNAL CONTAINMENT: **NOT REPORTED**
CONNECTORS & VALVES:
NOT REPORTED
CORROSION PROTECTION: **NOT REPORTED**
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: **NO**
CORROSION PROTECTION VARIANCE: **NO VARIANCE**

ABOVEGROUND STORAGE TANK INFORMATION

NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary

Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 12/29/18

The U.S. Department of Justice ("the Department") provides this information 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination. The data included in this report was extracted from the final CERCLIS dataset (CERCLIS was a Superfund data system that EPA decommissioned in 2014 following its deployment of the Superfund Enterprise Management System), which represents program progress as of the end of fiscal year 2013.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 03/09/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSTX Emergency Response Notification System

VERSION DATE: 04/07/19

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSTX Facility Registry System

VERSION DATE: 04/05/19

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 04/14/19

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 03/09/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

PADS PCB Activity Database System

VERSION DATE: 09/14/18

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 04/24/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States

Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

HISTPST Historical Gas Stations

VERSION DATE: NR

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.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 03/01/19

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 03/09/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) 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.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 03/15/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 03/31/19

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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 06/11/19

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 04/01/19

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 06/11/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 06/11/19

The U.S. Environmental Protection Agency’s (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 03/19/19

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). The inventory contains information on the location, type,

and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory 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.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 04/01/19

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

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.

NPL National Priorities List

VERSION DATE: 06/11/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 06/11/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 04/01/19

The Resource Conservation and Recovery Act (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. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 05/14/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

GWCC Groundwater Contamination Cases

VERSION DATE: 12/31/17

This is a Joint Groundwater Monitoring and Contamination Report provided by the Texas Commission on Environmental Quality (TCEQ). 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.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/16

This is a Joint Groundwater Monitoring and Contamination Report provided by the Texas Commission on Environmental Quality (TCEQ) that includes historic groundwater contamination cases reported since 1994. These cases have been closed by a program area or agency, such as the TCEQ, the Railroad Commission of Texas, and/or the Texas Alliance of Groundwater Districts. According to the TCEQ report, although enforcement actions may be closed on these cases, the Activity Status Code descriptions allow that groundwater contamination may still be present at the site and may therefore be of interest to regulatory agencies and the general public.

LANDAPP Land Application Permits

VERSION DATE: 01/03/19

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.

LIENS TCEQ Liens

VERSION DATE: 06/06/18

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

MSD Municipal Setting Designations

VERSION DATE: 01/16/19

The Texas Commission on Environmental Quality (TCEQ) defines an MSD as 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. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

Environmental Records Definitions - STATE (TX)

TCEQ Disclaimer: This data is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

NOV Notice of Violations

VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 01/01/19

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS Spills Listing

VERSION DATE: 02/07/19

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

TIERII Tier I I Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports. This data contains those facility reports for the 2005 through the 2012 calendar years. Please contact the Texas Commission on Environmental Quality Tier II Chemical Reporting Division as the current source for this data, due to confidentiality and safety reasons details such as the location and capacity of on-site hazardous chemicals is only available to local emergency planning agencies, fire departments, and/or owners.

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 05/02/19

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 05/02/19

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

DCR Dry Cleaner Registration Database

VERSION DATE: 06/04/19

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.

PST Petroleum Storage Tanks

VERSION DATE: 05/02/19

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

APAR Affected Property Assessment Reports

VERSION DATE: 04/05/19

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) 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 COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA Brownfields Site Assessments

VERSION DATE: 05/06/19

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

CALF Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 03/01/19

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, 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.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 04/05/19

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediated to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

IOP Innocent Owner / Operator Database

VERSION DATE: 01/01/19

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is 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. The IOP database is maintained by the Texas Commission on Environmental Quality.

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 06/04/19

The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 06/07/19

The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 04/18/19

According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil & Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 05/17/19

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of

the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

SF State Superfund Sites

VERSION DATE: 01/16/19

The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This listing includes any recent developments and the anticipated action for these sites as documented in the annual state Superfund registry publication of the Texas Register as well as the Superfund Webpage on the TCEQ website.

Environmental Records Definitions - LOCAL

EAP	Edwards Aquifer Permits
VERSION DATE: 07/21/06	

This database, maintained by the Texas Commission on Environmental Quality, contains Edward Aquifer permits.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 11/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 11/01/18

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Appendix B6
Social Implications & Environmental Justice
(Section 5.10)

Appendix B7
Public Meeting (Section 6)

APPENIDIX C
Agency Coordination (Section 7)