Phase I Environmental Site Assessment

Harlingen Undeveloped Land

1335 West Memphis Street

Harlingen, Cameron County, TX

September 14, 2023 | Terracon Project No. 88237264

Prepared for:

Consulate Consulting, Inc.
PO Box 41502
Austin, TX

Prepared by:

Terracon Consultants, Inc.
Pharr, Texas

Nationwide
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September 14, 2023

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Attn: Aaron Ashmore
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E: aaron@areagroup.us

Re: Phase I Environmental Site Assessment
Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas 78550
Terracon Project No. 88237264

Dear Mr. Ashmore:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with Terracon Proposal No. P88237264 dated August 23, 2023.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Jose A. Garcia III
Staff Scientist

for Lee Garrett, P.G.
Senior Principal

Attachments

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P88237264 dated August 23, 2023 and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Lee Garrett, P.G., designated as the Environmental Professional for this project. Jose A. Garcia III performed the site reconnaissance on August 30, 2023.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is located at 1335 West Memphis Street in Harlingen, Cameron County, Texas. The site consists of an approximately one-acre tract of undeveloped land that comprises a portion of the northern half of Cameron County Parcel No. 77872.

Historical Information

The site has been undeveloped land from at least 1922 to the present day. Surrounding properties north of the site consist of undeveloped land from at least 1922 until 1929 when structures were developed adjacent north of the site. By at least 1946, an electric power substation was developed north of the site. The structures associated with the substation adjacent north of the site were razed by 1977. The surrounding properties south of the site were undeveloped land from at least 1922 until 1925 when an ice plant was developed adjacent south of the site. Surrounding properties east of the site consisted of railroad tracks followed by North Commerce Street from at least 1922 until 1925 when commercial properties were developed east of North Commerce Street. Residential properties were developed southwest of the site by 1929. The surrounding properties west of the site consisted of undeveloped land or land used for agriculture from at least 1922 until 1954 when North Wichita Avenue was developed west of the site. By at least 1977, residential properties followed by Basin Circle were developed adjacent west of the site. Based on a review of the historical information, Terracon did not identify RECs in connection with the site.

Records Review

A review of available regulatory database information was conducted for specified federal and state agencies. The site was identified as a regulated facility. Harlingen Ice / Southwestern Ice Co., previously addressed as 1335 West Memphis Street, the site, was identified on the Emergency Response Notification System (ERNS), Central Registry, and the Spills Database (SPILLS). Southwestern Ice Co. was listed in the ERNS and SPILLS database for an incident that occurred on August 23, 1996. The said incident involved equipment failure of a receiver/transformer short out resulting in a condenser malfunction and release from a pop-off valve. Approximately 500 pounds of ammonia gas was released which resulted in the evacuation of a one block perimeter of private citizens as a precaution by the Harlingen Fire Department. Based on the properties of ammonia as a gas the ERNS and SPILLS listing does not represent a REC to the site.

Site Reconnaissance

During the site reconnaissance, the property consisted of an approximately one acre fenced undeveloped tract of land. Based upon the information gathered during the field visit, Terracon did not identify RECs in connection with the site.

Adjoining Properties

Adjoining properties to the north consist of an electric power substation. Southern adjoining properties consist of a vacant former ice manufacturing facility. Eastern adjoining properties consist of railroad track followed by North Commerce Street. Western adjoining properties consist of residential properties. Indications of RECs were not observed from site boundaries in connection with the adjoining properties.

Significant Data Gaps

Significant data gaps were not identified.

Additional Services

The following additional services and associated findings were performed:

- Wetlands Record Review
  Indications of documented or suspected jurisdictional wetlands were not identified on or adjoining to the subject property.

- Threatened/Endangered Species Records Review
  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 site vicinity. The search included information from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) system

and the Texas Parks and Wildlife. The IPaC system did not identify USFWS mapped critical habitat on the site.

- Historic Properties/Archaeological Resources Review
  Terracon conducted a limited literature and agency file review to identify publicly available records of known occurrence of cultural resources on the site. Terracon did not identify historic sites associated with the site.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 1335 West Memphis Street, Harlingen, Cameron County, Texas, the site. Recognized Environmental Conditions (RECs), Controlled RECs (CRECs) and/or Significant Data Gaps (SDGs) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs, CRECs, or SDGs in connection with the site. As such, no additional investigation is warranted at this time.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Harlingen Undeveloped Land
Site Location/Address	1335 West Memphis Street, Harlingen, Cameron County, Texas
Land Area	Approximately one acre
Site Improvements	None
Anticipated Future Site Use	Future battery energy storage system
Reason for the ESA	Environmental due diligence for leasing purposes

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the *Harlingen, Texas* 2019 USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P88237264 dated August 23, 2019, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. RECs are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

As requested by the client, the following additional services were performed:

- Wetland Records Review
- Threatened/Endangered Species Records Review
- Historic Properties/Archaeological Resources Review

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been

included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Consulate Consulting, Inc. Use or reliance by any other party is prohibited without the written authorization of Consulate Consulting, Inc. and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Client Representative, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.	X		
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.	X		
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.	X		
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.	X		
Obvious Indicators of Releases at the site.	X		

The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the questionnaire information outside the context of Terracon's Phase I ESA scope of work and report.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 40 feet above sea level	USGS Topographic Map, Harlingen, Texas Quadrangle, 2019 (Appendix A)
Topographic Gradient	Gently sloping towards the north	
Closest Surface Water	Irrigation canal, approximately 1,040 feet west of the site.	
Soil Characteristics		
Soil Type	Raymondville-Urban Land Complex	Cameron County, TX USDA-NRCS Web Soil Survey accessed September 5, 2023
Description	This mapping unit is in the built-up areas of cities and towns. Slopes are 0 to 1 percent. The Raymondville clay loam has a surface layer of dark-gray calcareous clay loam. Urban land consists of areas where such works and structures as streets, sidewalks, buildings, driveways, and patios have been constructed.	
Geology/Hydrogeology		
Formation	Alluvium (Qas)	USGS Texas Pocket Geology, McAllen-Brownsville Sheet accessed September 5, 2023
Description	The formation consists of floodplain deposits consisting of the lower course of Rio Grande River. The formation divided into areas of dominantly mud. The formation consists of clay, silt, sand, gravel, and organic matter; gravel along the Rio Grande includes sedimentary rocks from the Cretaceous and	

Physical Setting Information		Source
	Tertiary and a wide variety of igneous and sedimentary rocks from Trans-Pecos Texas, Mexico, and New Mexico including agate; gravel in side streams of the Rio Grande. Mostly local Tertiary rocks and chert derived from Uvalde Gravel which caps divides.	
Estimated Depth to First Occurrence of Groundwater	The first occurrence of groundwater is unknown; however, it is likely that groundwater is present within 15-20 feet below ground surface.	Terracon's experience in the area
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the north).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10-to-15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs, and Sanborn maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. EDR provided Sanborn maps as summarized below.

- Topographic map: Harlingen, Texas, published in 1922, (1"=2,000')
- Topographic map: San Benito, Texas, published in 1925, (1"=2,000')
- Topographic map: Harlingen, Texas, published in 1929, (1"=2,000')
- Topographic map: Harlingen, Texas, published in 1932, (1"=2,000')
- Aerial photograph: United States Geological Survey (USGS), 1946, (1"=500')
- Aerial photograph: United States Department of Agriculture (USDA), 1950, 1954, (1"=500')
- Topographic Map: Harlingen, Texas, published in 1956, (1"=2,000')
- Aerial photograph: Agricultural Stabilization and Conservation Service (ASCS), 1962, (1"=500')
- Topographic Map: Harlingen, Texas, published in 1970, (1"=2,000')
- Aerial photograph: USGS, 1970, (1"=500')
- Aerial photograph: Texas Department of Transportation (TXDOT), 1977, (1"=500')
- Topographic Map: Harlingen, Texas, published in 1983, (1"=2,000')
- Aerial photograph: USDA, 1983, (1"=500')
- Aerial photograph: USGS, 1995, (1"=500')
- Topographic Map: Harlingen, Texas, published in 2002, (1"=2,000')
- Aerial photograph: USDA, 2005, 2008, 2012, (1"=500')
- Topographic Map: Harlingen, Texas, published in 2013, 2016, (1"=2,000')
- Aerial photograph: USDA, 2016, (1"=500')
- Topographic Map: Harlingen, Texas, published in 2019, (1"=2,000')
- Aerial photograph: USDA, 2020, (1"=500')

Historical Maps and Aerial Photographs

Direction	Description
Site	1922-2020: Undeveloped land.
North	1922-1925: Undeveloped land. 1929-1932: Structures developed adjacent north of site. 1946: Electric power substation developed north of site. 1950-1970: No changes north of site. 1977: Adjacent structures north of site razed; area adjacent north left vacant. 1983-2020: North of site remains relatively unchanged.
East	1922: Railroad tracks followed by North Commerce Street. 1925: Commercial properties developed east of North Commerce Street. 1929-1983: Continued commercial development east of North Commerce Street. 1995-2020: East of site remains relatively unchanged.
South	1922: Undeveloped land. 1925: Ice plant followed by Memphis Street developed adjacent south of site. 1929: Residential properties developed adjacent southwest of site. 1932-2020: South of site remains relatively unchanged.
West	1922-1950: Undeveloped land or land used for agriculture. 1954: North Wichita Avenue developed west of site. 1962-1970: No changes west of site. 1977: Residential properties followed by Basin Circle developed adjacent west of site. 1983-2020: West of site remains relatively unchanged.

3.2 Historical City Directories

The EDR city directories used in this study were made available through Cole Information, Cole Criss-Cross Directory, and Wilmot's City Directory (selected years reviewed: 1935-2020) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to 1935. The current street address for the site was identified as 1335 West Memphis Street.

Historical City Directories

Direction	Description
Site	1335 West Memphis Street: No listings available.
North	No listings available
East	1316 North Commerce Street: No listings (1935-1994); Expressway Exxon (1995); Cruz Moses (2000); Auto Detailing (2005) 1420 North Commerce Street: No listings (1935-1971); JW Barfield Asphalt, James W Barfield (1972); JW Barfield Asphalt (1977-1987); Damon Clinical Laboratory, Neumann's Grinding Industrial, Poncho's Mechanics, Rodriguez Air Conditioning (1995); MM Small Engine Repair, Neumann's Grinding & Industrial Machine Repair Service (2000); Frances Diner, Neumann's Grinding & Industrial, RT Auto Painting (2005); Neumann Gus, Neumann's Grinding & Industrial Machine, Quality TV SVC, Vasquez Jose (2010); Cruz Lina, Neumann Gus, Quality TV Service (2014)
South	No listings available.
West	No listings available.

3.3 Site Ownership

Based on a review of information obtained from the Cameron County Appraisal District (CCAD) records, the current site owner is B&B Valley LTD. In addition, previous owners identified included Southeastern Public Serv, Harlingen Ice Co LP, Southwestern Ice, Inc., Reddy Ice Corporation, and Y'Shua Full Gospel Fellowship Inc. According to CCAD, the site is described as HARLINGEN-PAUL HILL BLK 3 E, 6.6040 ACRES.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental

lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name/Phone #	Title	Date/Time
Joe Garcia	Enrique Abundiz/ 956-357-5387	Owner	August 30, 2023/ 12:00 p.m.

Joe Garcia of Terracon conducted an in-person interview with Mr. Enrique Abundiz, the owner of the site. Mr. Abundiz indicated that he has been associated with the site for approximately five years. According to Mr. Abundiz, to his knowledge, the site was originally occupied by an ice manufacturing entity. Mr. Abundiz added that he sourced clean surplus fill dirt from TXDOT to level the site approximately four years prior. Mr. Abundiz noted that he had no site knowledge of any:

- Pending environmental litigation
- Threatened environmental litigation
- Past environmental litigation
- Notices of possible violations of environmental laws
- Notices of possible liability
- Notices of potential environmental concerns
- Knowledge of USTs
- Knowledge of chemical usage

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports, permits, registrations, and geotechnical reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company in a report dated Database Report Date. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
SEMS	Superfund Enforcement Management System (formerly CERCLIS)	0.5	0
SEMS ARCHIVE	Superfund Enforcement Management System Archive (formerly CERCLIS NFRAP)	0.5	1
FED BROWNFIELDS	Brownfields Management System	0.5	0
LUCIS	Land Use Control Information System	0.5	0
ERNS	Emergency Response Notification System	Site	1
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
Proposed NPL	Proposed National Priorities List	1.0	0
NPL (Delisted)	National Priorities Delisted List	0.5	0

Database	Description	Distance (miles)	Listings
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	0
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0
FINDS/FRS	Facility Registry Service	Site	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
AUL	Activity and Use Limitations Listings	Site	0
Brownfields	Brownfields Sites	0.5	0
CLI	Closed Landfill Inventory	0.5	0
IHW	Industrial and Hazardous Waste	0.1	0
IOP	Innocent Owner/Operator Program	0.25	0
LPST	Leaking Petroleum Storage Tanks	0.5	2
INDIAN LUST	Leaking Underground Storage Tanks on Tribal Lands (Region 6 States)	0.5	0
APAR	Affected Property Assessment Reports	0.5	0
SUPERFUND	State Superfund Registry	1.0	0
IHW CORR ACTION	Industrial and Hazardous Waste Corrective Action Sites	1.0	0
SPILLS	Emergency Response System Spills Database	Site	1
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
CLI	Closed & Abandoned Landfill Inventory	0.5	0
PST	Petroleum Storage Tanks	0.1	0
VCP	Voluntary Cleanup Program	0.5	0

Database	Description	Distance (miles)	Listings
PRIORITY CLEAN	Dry Cleaner Remediation Program Sites	0.5	0
DRYCLEANERS	Dry Cleaner Registration Database	0.25	0
DELISTED DRYCLEANERS	Delisted Drycleaning Facility List	0.25	0
IOP	Innocent Owner / Operator Database	0.25	0
MSD	Municipal Setting Designations	Site	0
GWCC	Groundwater Contamination Cases	Site	0
LIENS	TCEQ Liens	Site	0
WASTEMGT	Commercial Hazardous & Industrial Solid Waste Management Facilities	0.5	0
HIST AUTO	Historical Automotive Facilities	0.1	0
HIST CLEANER	Historical Dry Cleaner Facilities	0.1	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for facilities identified within 500 feet of the site. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Harlingen Ice / Southwestern Ice Co. 1335 W. Memphis Street	Site	ERNS, Central Registry, SPILLS	No RECs, see discussion below
BYS Fix It Shop 1318 North Commerce	Approximately 485 feet / East / Up-gradient	Hist Auto	No RECs, see discussion below

Harlingen Ice / Southwestern Ice Co.

Harlingen Ice / Southwestern Ice Co., previously addressed as 1335 West Memphis Street, the site, was identified on the Emergency Response Notification System (ERNS), Central Registry, and the Spills Database (SPILLS).

Southwestern Ice Co. was listed in the ERNS and SPILLS database for an incident that occurred on August 23, 1996. The said incident involved equipment failure of a receiver/transformer short out resulting in a condenser malfunction and releaser from a pop-off valve. Approximately 500 pounds of ammonia gas was released which resulted in the evacuation of a one block perimeter of private citizens as a precaution by the Harlingen Fire Department. Based on the properties of ammonia as a gas the ERNS and SPILLS listing does not represent a REC to the site.

BYS Fix It Shop

BYS Fix It Shop, located approximately 485 feet east and topographically cross-gradient to the site, was identified as a Historic Automotive (Hist Auto) facility. According to the report, BYS Fix It Shop operated at the location from 1981 to 1989. Based on distance BYS Fix It Shop does not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list facilities in the unmapped section.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
City of Harlingen, Texas *Email: harlingenpdtx@govqa.us*	Terracon submitted a request to the City of Harlingen via the city's online portal on August 25, 2023. On August 31, 2023 a response was received from the City of Harlingen stating "no responsive files related to the site were found."
Texas Commission on Environmental Quality (TCEQ) *http://www2.tceq.texas.gov/pircs/index.cfm*	Terracon contacted Open Records Team, MC-197, IR/Open Records & Reporting Services, with the TCEQ, through their website, on August 25, 2023, concerning possible recognized environmental conditions in conjunction with the site. On September 1, 2023 a response from the TCEQ was received stating "no responsive files related to the site were found."

Agency Contacted/ Contact Method	Response
Railroad Commission of Texas (RRC) *http://wwwgisp.rrc.state.tx.us/GISViewer2/*	Terracon reviewed the online Public GIS Map Review via the Railroad Commission of Texas (RRC) online website on September 5, 2023 to identify pipelines, above and underground, including but not limited to highly volatile liquids (HVL), Non-HVL, or natural gas transmission lines, and oil and/or gas wells. According to the website, no oil or gas wells or pipelines are present within 1,000 feet of the site.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Jose A. Garcia III
Reconnaissance Date	August 30, 2023
Weather Conditions	Clear, Low-90s °f
Site Contact/Title	Enrique Abundiz / Owner

5.2 Overview of Current Site Occupants

The site consists of an approximately one-acre tract of undeveloped land that comprises a portion of the northern half of Cameron County Parcel No. 77872.

5.3 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels, and/or containers ≥ 5 gallons	
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	

Category	Item or Feature	Observed or Identified
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	
	Wells	

Releases or Potential Releases

Trash, debris, and/or other waste materials

During the site reconnaissance, Terracon observed various trash/debris accumulated on the fence line along the western site boundary. Terracon recommends removing and properly disposing of the trash/debris off-site. The trash and debris does not represent a REC to the site.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
West	Residential properties
South	Vacant former ice manufacturing facility
East	Railroad tracks followed by North Commerce Street
North	Electric power substation

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, the following additional services (e.g., Wetland Records Review; Threatened/Endangered Species Records Review; Historic Properties/Archaeological Resources Review) were conducted.

7.1 Limited Wetland Records Review

The U.S. Army Corps of Engineers (USACE) regulates jurisdictional wetlands and other waters of the U.S. under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Terracon conducted a limited desktop review of the site to identify areas mapped by the resources below as potentially exhibiting characteristics of wetlands and/or other waterbodies that may be subject to regulation under the USACE. This review may not identify state/locally-designated wetlands. This desktop review is not a thorough review of wetlands and may not identify all resources present.

Terracon reviewed the following resources to identify areas mapped as indicating the potential presence of jurisdictional waters of the U.S., including wetlands, on the site:

- Topographic Map

  The *Harlingen, Texas* 2019 United States Geologic Survey (USGS) 7.5-Minute Topographic Map of the subject site was reviewed to identify drainages or other potential waters of the U.S. within the project site. A portion of the Topographic Quadrangle can be seen as Exhibit 1 in Appendix A. Based on the *Harlingen, Texas* 2019 USGS map, water bodies are not depicted on the site.

- National Wetland Inventory Map

  National Wetland Inventory (NWI) data for the project site was reviewed to identify potential wetland areas. NWI data for the project site was published by the U.S. Department of the Interior's Fish and Wildlife Service and depicts possible wetland areas based on stereoscopic analysis of high-altitude aerial photographs. The review of the NWI data does not identify potential wetland areas located within the project site. The NWI map data for the project area is included as Exhibit 3 in Appendix A.

Terracon's desktop review of the above resources did not identify mapped wetlands or other potentially jurisdictional waters of the U.S. on the site. Please note that there may be wetlands not identified on the resources reviewed. This Limited Wetland Review does not constitute a formal determination and/or delineation of a potentially jurisdictional wetland, which requires (among other procedures) a formal field investigation including hand-dug soil stations with vegetation and hydrologic indicators identification, as set forth in *1987 Corps of Engineers Wetland Delineation Manual* and further amended by the applicable *Regional Supplements to the Corps of Engineers Wetland Delineation Manual.*

To obtain a formal determination from the USACE regarding jurisdictional status, a wetland/waters of the U.S. delineation could be conducted by a wetland scientist and submitted to the USACE (or in certain geographies the participating state agency) for a jurisdictional determination. Note that the USACE is not required to respond to determination requests within a particular timeframe unless the submittal also includes a permit application.

7.2 Threatened/Endangered Species Records Review

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 site vicinity. The search included information from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) system and the Texas Parks and Wildlife. The following is a list of federally- and state-listed T&E species potentially located in Cameron County, Texas.

Threatened & Endangered Species

SPECIES	STATUS*	HABITAT
AMPHIBIANS		
Black-spotted newt (Notophthalmus meridionalis)	ST	Terrestrial and aquatic: Terrestrial habitats used by adults are typically poorly drained clay soils that allow for the formation of ephemeral wetlands. A wide variety of vegetation associations are known to be used, such as thorn scrub and pasture. Aquatic habitats used for reproduction are a variety of ephemeral and permanent water bodies.
Mexican treefrog (Smilisca baudinii)	ST	Terrestrial and aquatic: Terrestrial habitat used include forested and brush around water bodies. Aquatic habitat used can any body of water but preferred breeding sites are small, ephemeral wetlands.
Sheep frog (Hypopachus variolosus)	ST	Terrestrial and aquatic: Predominantly grassland and savanna; largely fossorial in areas with moist microclimates.
South Texas siren (Large Form) (Siren sp. 1)	ST	Aquatic: Mainly found in bodies of quiet water, permanent or temporary, with or without submergent vegetation. Wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods but does require some moisture to remain.
White-lipped frog (Leptodactylus fragilis)	ST	Terrestrial and aquatic: Lowlands, grasslands, cultivated fields, roadside ditches, and a wide variety of other habitats; often hides under rocks or in burrows under clumps of grass.

SPECIES	STATUS*	HABITAT
BIRDS		
Black Rail (Laterallus jamaicensis)	*FT/ST*	Cottonwood-lined rivers and streams; willow tree groves on the lower Rio Grande floodplain; formerly bred in south Texas
Botteri's Sparrow (Peucaea botterii)	*ST*	Two allopatric subspecies occur in Texas. The arizonae subspecies found in the Trans Pecos is considered to be a vagrant because there is just one record from Presidio County in 1997. The other subspecies, texana, can be found regularly in sacahuista habitat (or cordgrass flats) in counties that along the lower coastline like Kenedy, Willacy, and Cameron counties, but also rarely in Kleberg and Brooks counties. This migratory species does not overwinter in Texas. Breeding birds return in spring and sit fairly visibly on (low) commanding perches like fence posts or mesquite limbs where males sing vigorously throughout summer.
gray hawk (Buteo plagiatus)	*ST*	Locally and irregularly along U.S.-Mexico border; mature riparian woodlands and nearby semiarid mesquite and scrub grasslands; breeding range formerly extended north to southernmost Rio Grande floodplain of Texas
northern aplomado falcon (Falco femoralis septentrionalis)	*FE/SE*	Open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species
northern beardless-tyrannulet (Camptostoma imberbe)	*ST*	Mesquite woodlands; also cottonwood, willow, elm, and tepeguaje near the Rio Grande. Breeding April to July

SPECIES	STATUS*	HABITAT
piping plover (Charadrius melodus)	*ST*	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.

SPECIES	STATUS*	HABITAT
Red-crowned Parrot (Amazona viridigenalis)	*ST*	Starting in the late 1980s to early 1990s, this species has increased in numbers in urban settings in Cameron and Hidalgo counties. This cavity nesting species prefers dead palm trees, including non-native Washingtonian palms, with abandoned cavities excavated by Golden-fronted Woodpeckers. Grooming of palms (i.e., trimming the dead, drooping fronds) does not appear to directly impact this species; however removal of dead palms with or without cavities should be avoided.
reddish egret (Egretta rufescens)	*ST*	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
rose-throated becard (Pachyramphus aglaiae)	*ST*	Riparian corridors; trees, woodlands, open forest, scrub, and mangroves; breeding April to July
Rufa Red Knot (Calidris canutus rufa)	*ST*	Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore. Bolivar Flats in Galveston County, sandy beaches Mustang Island, few on outer coastal and barrier beaches, tidal mudflats and salt marshes
sooty tern (Onychoprion fuscatus)	*ST*	Primarily an offshore bird; does nest on sandy beaches and islands, breeding April-July

SPECIES	STATUS*	HABITAT
swallow-tailed kite (Elanoides forficatus)	*ST*	Lowland forested regions, especially swampy areas, ranging into open woodland; marshes, along rivers, lakes, and ponds; nests high in tall tree in clearing or on forest woodland edge, usually in pine, cypress, or various deciduous trees
tropical parula (Setophaga pitiayumi)	*ST*	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.
white-faced ibis (Plegadis chihi)	*ST*	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.
white-tailed hawk (Buteo albicaudatus)	*ST*	Near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May
zone-tailed hawk (Buteo albonotatus)	*ST*	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

SPECIES	STATUS*	HABITAT
wood stork (Mycteria Americana)	*ST*	Prefers to nest in large tracts of bald cypress (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
FISH		
Mexican goby (Ctenogobius claytonia)	*ST*	Southern coastal area; brackish and freshwater coastal streams; tidal freshwater associated with silty sandbars and grass beds
Oceanic Whitetip Shark (Carcharhinus longimanus)	*FT/ST*	Habitat description is not available at this time
Rio Grande shiner (Notropis jemezanus)	*ST*	Rio Grande drainage. Occurs over substrate of rubble, gravel and sand, often overlain with silt
Shortfin Mako Shark (Isurus oxyrinchus)	*ST*	Habitat description is not available at this time

SPECIES	STATUS*	HABITAT
river goby (Awaous banana)	*ST*	Formerly occupied the mainstream of the Rio Grande in Texas (northern most portion of their range). Generally occupies clear, well oxygenated streams and rivers with slow to moderate current (dependent on flowing water), sandy, muddy, or hard bottom, and little or no vegetation; also enters brackish and marine waters. Shaded areas of streams/rivers may be preferred. Spawning takes place in freshwater and eggs drift downstream to brackish or salt water where they hatch. Larvae migrate back into streams as they develop, but have a higher salinity tolerance than adults.
smalltooth sawfish (Pristis pectinate)	*FE/SE*	Different life history stages have different patterns of habitat use: young of year, Age 1, and Age 2 are dependent upon shallow (<1m), euryhaline waters with red mangrove lined shoreline (Norton et al. 2012). These age classes are often found very close to shore over muddy and sandy bottoms in sheltered bays, on shallow banks, and in estuaries or river mouths. These age classes can tolerate a wide range of salinities, but will move in and out of protected areas (estuaries) due to changes in flow and salinity (Poulakis and Seitz 2011). Larger juveniles may occupy greater depth strata in areas further from shore as they consistently occupy marine waters. Adult sawfish are encountered in various habitat types (mangrove, oyster reef, seagrass, and coral), in varying salinity regimes and temperatures, and at various water depths, feed on a variety of fish species.

SPECIES	STATUS*	HABITAT
INSECTS		
Monarch Butterfly (Danaus plexippus	*SC*	No critical habitat has been designated for the species
MAMMALS		
blue whale (Balaenoptera musculus)	*FE/SE*	Inhabits tropical, subtropical, temperate, and subpolar waters worldwide, but are infrequently sighted in the Gulf of Mexico. They migrate seasonally between summer feeding grounds and winter breeding grounds, but specifics vary. Commonly observed at the surface in open ocean
Coues' rice rat (Oryzomys couesi aquaticus)	*ST*	Cattail-bulrush marsh with shallower zone of aquatic grasses near the shoreline; shade trees around the shoreline are important features; prefers salt and freshwater, as well as grassy areas near water; breeds April-August
Gulf of Mexico Bryde's Whale (Balaenoptera edeni)	*FE/SE*	Habitat description is not available at this time.
humpback whale (Megaptera novaeangliae)	*FE*	Inhabits tropical, subtropical, temperate, and subpolar waters worldwide. Migrate up to 5,000 miles between colder water (feeding grounds) and warmer water (calving grounds) each year. They will use both open ocean and coastal waters, sometimes including inshore areas such as bays, and are often found near the surface; however, this species is rare in the Gulf of Mexico. The northwest Atlantic/Gulf of Mexico distinct population segment is not considered at risk of extinction and is not listed as Endangered on the Endangered Species Act.

SPECIES	STATUS*	HABITAT
North Atlantic right whale (Eubalaena glacialis)	*FE/SE*	Inhabits subtropical and temperate waters in the northern Atlantic. Commonly found in coastal waters or close to the continental shelf near the surface. They migrate from feeding grounds in cooler waters (Canada and New England) to warmer waters of the southeast US (South Carolina, Georgia, and Florida) to give birth in the fall/winter - both areas are identified as critical habitat by NOAA-NMFS. Nursery areas are in shallow, coastal waters. This species is very rare in the Gulf of Mexico and the few reported sightings are likely vagrants (Ward-Geiger, et al. 2011).
Ocelot (Leopardus pardalis)	*FE/SE*	Restricted to mesquite-thorn scrub and live-oak mottes; avoids open areas. Dense mixed brush below four feet; thorny shrublands; dense chaparral thickets; breeds and raises young June-November.
Sei Whale (Balaenoptera borealis)	*FE/SE*	Habitat description is not available at this time.
sperm whale (Physeter macrocephalus)	*FE/SE*	Inhabits tropical, subtropical, and temperate waters worldwide, avoiding Icey waters. Distribution is highly dependent on their food source (squids, sharks, skates, and fish), breeding, and composition of the pod. In general, this species migrates from north to south in the winter and south to north in the summer; however, individuals in tropical and temperate waters don't seem to migrate at all. Routinely dive to catch their prey (2,000-10,000 feet) and generally occupies water at least 3,300 feet deep near ocean trenches.

SPECIES	STATUS*	HABITAT
West Indian manatee (Trichechus manatus)	*FT/ST*	Large rivers, brackish water bays, coastal waters. Warm waters of the tropics, in rivers and brackish bays but may also survive in salt water habitats. Very sensitive to cold water temperatures. Rarely occurring as far north as Texas. Gulf and bay system; opportunistic, aquatic herbivore.
white-nosed coati (Nasua narica)	*ST*	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
PLANTS		
South Texas ambrosia (Ambrosia cheiranthifolia)	*FE/SE*	Grasslands and mesquite-dominated shrublands on various soils ranging from heavy clays to lighter textured sandy loams, mostly over the Beaumont Formation on the Coastal Plain; in modified unplowed sites such as railroad and highway rights-of-way, cemeteries, mowed fields, erosional areas along small creeks; Perennial; Flowering July-November
star cactus (Astrophytum asterias)	*FE/SE*	Gravelly clays or loams, possibly of the Catarina Series (deep, droughty, saline clays), over the Catahoula and Frio formations, on gentle slopes and flats in sparsely vegetated openings between shrub thickets within mesquite grasslands or mesquite-black brush thorn shrublands; plants sink into or below ground during dry periods; flowering from mid-March-May, may also flower in warmer months after sufficient rainfall, flowers most reliably in early April; fruiting mid-April-June

SPECIES	STATUS*	HABITAT
Texas ayenia (Ayenia limitaris)	*FE/SE*	Subtropical thorn woodland or tall shrubland on loamy soils of the Rio Grande Delta; known site soils include well-drained, calcareous, sandy clay loam (Hidalgo Series) and neutral to moderately alkaline, fine sandy loam (Willacy Series); also under or among taller shrubs in thorn woodland/thorn shrubland; flowering throughout the year with sufficient rainfall
REPTILES		
Atlantic hawksbill sea turtle (Eretmochelys imbricate)	*FE/SE*	Inhabit tropical and subtropical waters worldwide, in the Gulf of Mexico, especially Texas. Hatchling and juveniles are found in open, pelagic ocean and closely associated with floating algae/seagrass mats. Juveniles then migrate to shallower, coastal areas, mainly coral reefs and rocky areas, but also in bays and estuaries near mangroves when reefs are absent; seldom in water more than 65 feet deep. They feed on sponges, jellyfish, sea urchins, mollusks, and crustaceans. Nesting occurs from April to November high up on the beach where there is vegetation for cover and little or no sand. Some migrate, but others stay close to foraging areas - females are philopatric
black-striped snake (Coniophanes imperialis)	*ST*	Terrestrial: Occurs in native thorn scrub and woodlands a well as modified urban areas. Prefers warm, moist microhabitats, and sandy soils.

SPECIES	STATUS*	HABITAT
green sea turtle (Chelonia mydas)	*FT/ST*	Inhabits tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. Adults and juveniles occupy inshore and nearshore areas, including bays and lagoons with reefs and seagrass. They migrate from feeding grounds (open ocean) to nesting grounds (beaches/barrier islands) and some nesting does occur in Texas (April to September). Adults are herbivorous feeding on sea grass and seaweed; juveniles are omnivorous feeding initially on marine invertebrates, then increasingly on sea grasses and seaweeds.
Kemp's Ridley sea turtle (Lepidochelys kempii)	*FE/SE*	Inhabits tropical, subtropical, and temperate waters of the northwestern Atlantic Ocean and Gulf of Mexico. Adults are found in coastal waters with muddy or sandy bottoms. Some males migrate between feeding grounds and breeding grounds, but some don't. Females migrate between feeding and nesting areas, often returning to the same destinations. Nesting in Texas occurs on a smaller scale compared to other areas (i.e. Mexico). Hatchlings are quickly swept out to open water and are rarely found nearshore. Similarly, juveniles often congregate near floating algae/seagrass mats offshore, and move into nearshore, coastal, neritic areas after 1-2 years and remain until they reach maturity. They feed primarily on crabs, but also snails, clams, other crustaceans and plants, juveniles feed on sargassum and its associated fauna; nests April through August.

SPECIES	STATUS*	HABITAT
leatherback sea turtle (Dermochelys coriacea)	*FE/SE*	Inhabit tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. Nesting is not common in Texas (March to July). Most pelagic of the sea turtles with the longest migration (>10,000 miles) between nesting and foraging sites. Are able to dive to depths of 4,000 feet. They are omnivorous, showing a preference for jellyfish.
loggerhead sea turtle (Caretta caretta)	*FE/SE*	Inhabits tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. They migrate from feeding grounds to nesting beaches/barrier islands and some nesting does occur in Texas (April to September). Beaches that are narrow, steeply sloped, with coarse-grain sand are preferred for nesting. Newly hatched individuals depend on floating algae/seaweed for protection and foraging, which eventually transport them offshore and into open ocean. Juveniles and young adults spend their lives in open ocean, offshore before migrating to coastal areas to breed and nest. Foraging areas for adults include shallow continental shelf waters.
northern cat-eyed snake (Leptodeira septentrionalis septentrionalis)	*ST*	Terrestrial: Thorn scrub and deciduous woodland; dense thickets bordering ponds and streams.
speckled racer (Drymobius margaritiferus)	*ST*	Terrestrial: Dense thickets near water, palm groves, riparian woodlands; often in areas with much vegetation litter on ground.

SPECIES	STATUS*	HABITAT
Texas horned lizard (Phrynosoma cornutum)	*ST*	Terrestrial: Open habitats with sparse vegetation, including grass, prairie, 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. Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area.
Texas tortoise (Gopherus berlandieri)	*ST*	Terrestrial: Open scrub woods, arid brush, lomas, grass-cactus association; often in areas with sandy well-drained soils. When inactive occupies shallow depressions dug at base of bush or cactus; sometimes in underground burrow or under object. Eggs are laid in nests dug in soil near or under bushes.
MOLLUSKS		
Mexican Fawnsfoot (Truncilla cognata)	*ST*	Occurs in large rivers but may also be found in medium-sized streams. Is commonly found in habitats with some flowing water, often in protected near shore areas such as banks and backwaters but also at the head of riffles; the latter more often supporting both sub-adults and adults. Typically occurs in substrates of mixed sand and gravel as well as soft unconsolidated sediments. Considered intolerant of reservoirs (Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]

SPECIES	STATUS*	HABITAT
Salina Mucket (Potamilus metnecktayi)	*ST*	Occurs in medium to large rivers, where it may be found in substrates composed of various combinations of mud, sand, gravel, and cobble, as well as under rocks. It occurs in areas with slow to moderate current, most often in stable littoral habitats dominated by boulder or bedrock habitat; not known from reservoirs (Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]
Texas Hornshell (Popenaias popeii)	*FE/SE*	Occurs in small streams to large rivers in slow to moderate current, often residing in rock crevices, travertine shelves, and under large boulders, where small-grained material, such as clay, silt, or sand gathers. Can also occur in riffles that are clean swept of soft silt; not known from reservoirs (Carman 2007; Inoue et al. 2014; Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]

*Status Codes:

FE = Federally Endangered
FT = Federally Threatened
SE = State Endangered
ST = State Threatened
SC = State Special Concern (not a statutory category)

The IPaC system did not identify USFWS mapped critical habitat on the site.

Based on the developed nature of the areas surrounding the site, the site appears less likely to support T&E species. This review is limited and does not constitute an evaluation of habitat suitability or presence/absence survey for a particular species by a qualified biologist. The absence of listed species or known sightings in the databases does not necessarily indicate the site is clear and no listed species are present, it could be an indication that the site has not been previously surveyed. In addition, this review is not aimed at compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act.

7.3 Historic Properties/Archaeological Resources Review

A limited literature and agency file review was conducted to identify publicly available records of known occurrence of cultural resources on the site. Note that records pertaining to location of cultural resources are often restricted and not available to the public. Absence of records does not guarantee absence of cultural resources; it may be that a survey for the site has not previously been completed or that such records are not publicly available. This review is limited and does not constitute a site investigation by an archeologist or historian or concurrence from the State Historic Preservation Office (SHPO).

Cultural resources are comprised of historic properties and archaeological artifacts. The review included the National Register of Historic Places. Cultural resources or structures of historical significance were not documented on the National Register of Historic Places or in the publicly available information response from the SHPO.

Regardless of whether resources have or have not been identified on-site or adjacent, consultation with SHPO or the local regulating authority may be necessary to obtain concurrence for the site. Terracon Cultural Resources professionals can advise on applicability and as appropriate, submit a Cultural Resources Assessment Survey (CRAS) letter to SHPO or the local regulating authority. Please note that they may have 30 or more calendar days to review the request and may not respond if the request is not part of a permit request. It should be noted that Section 106 of the National Historic Preservation Act (NHPA) applies to federal undertakings. If federal funding or federal permitting is introduced to the project, the completion of a CRAS may be a requirement for meeting Section 106 obligations.

8.0 DECLARATION

I, Lee Garrett, P.G., declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

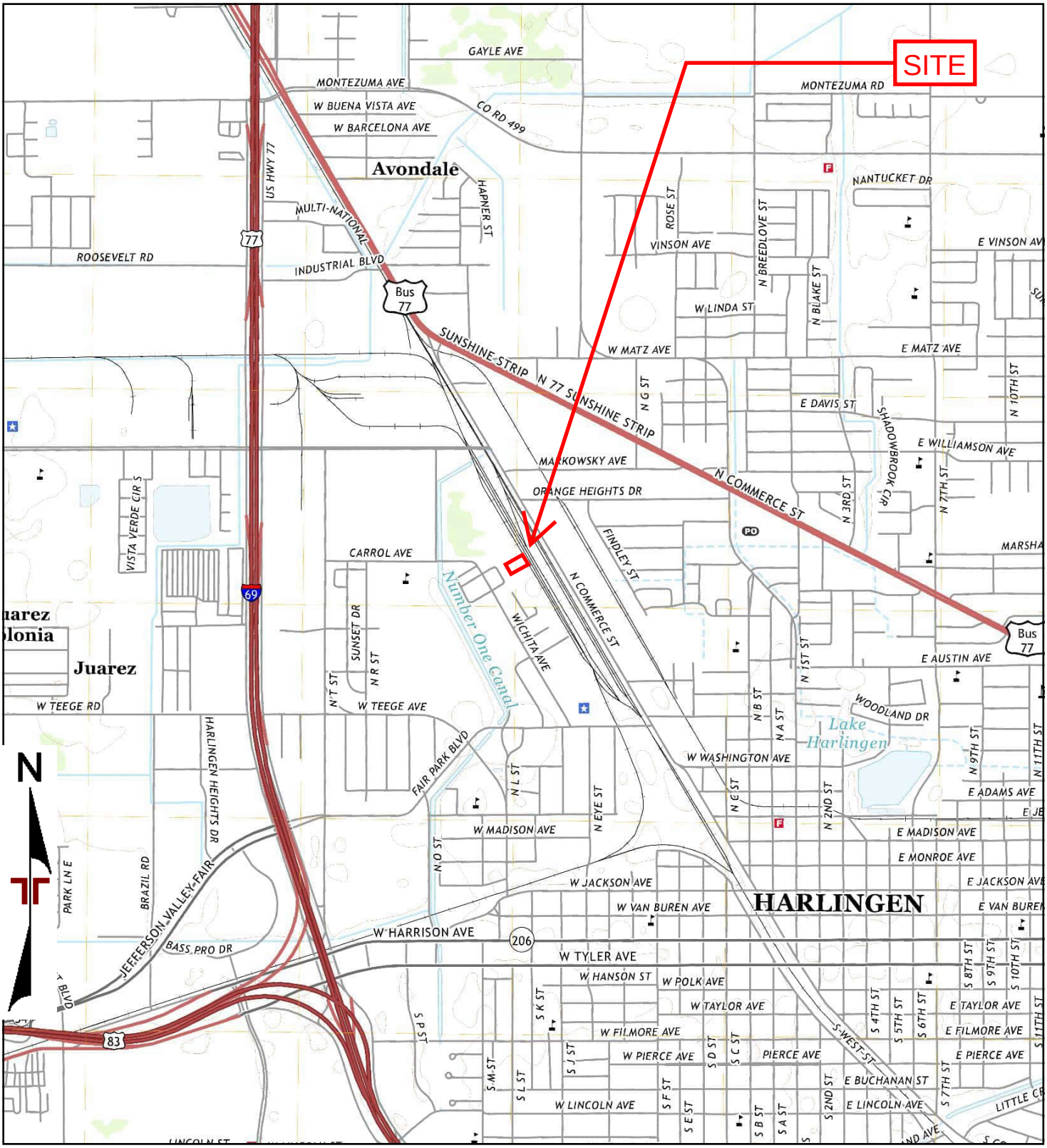
for _____
Lee Garrett, P.G.
Senior Principal

APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM

EXHIBIT 3: NWI MAP



TP, Harlingen, 2019, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 2019

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

2019 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Exhibit 1

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager:	JAG
Drawn by:	JAG
Checked by:	DLG
Approved by:	DLG

Project No.	88237264
Scale:	See Scale
File Name:	Site Diagram
Date:	9/13/2023

Terracon
1506 Mid Cities Drive Pharr, Texas 78577
PH. (956) 283-8254 FAX. (956) 283-8279

SITE DIAGRAM

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Exhibit 2

U.S. Fish and Wildlife Service
National Wetlands Inventory

Harlingen Undeveloped Land

September 13, 2023

Wetlands

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

APPENDIX B

SITE PHOTOGRAPHS

Photo #1 View of the southern site boundary facing east.

Photo #2 General view of the site facing northeast.

Photo #3 View of the western site boundary facing north.

Photo #4 View of the western site boundary facing south.

Photo #5 General view of the site facing southeast.

Photo #6 View of the northern site boundary facing east.

Photo #7 View of the northern site boundary facing west.

Photo #8 General view of the site facing southwest.

Photo #9 View of the eastern site boundary facing south.

Photo #10 View of the eastern site boundary facing north.

Photo #11 View of the southern site boundary facing west.

Photo #12 View of trash/litter along the western site boundary fence line.

Photo #13 View of the vacant former ice plant located adjacent south of site.

Photo #14 View of residential properties located adjacent west of site.

Photo #15 View of the electric power substation located adjacent north of site.

Photo #16 View of railroad tracks located adjacent east of site.

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	2020 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 2020			

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	2016 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 2016			

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	2012 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 2012			

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	2008 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 2008			

0 Feet 500 1000 2000

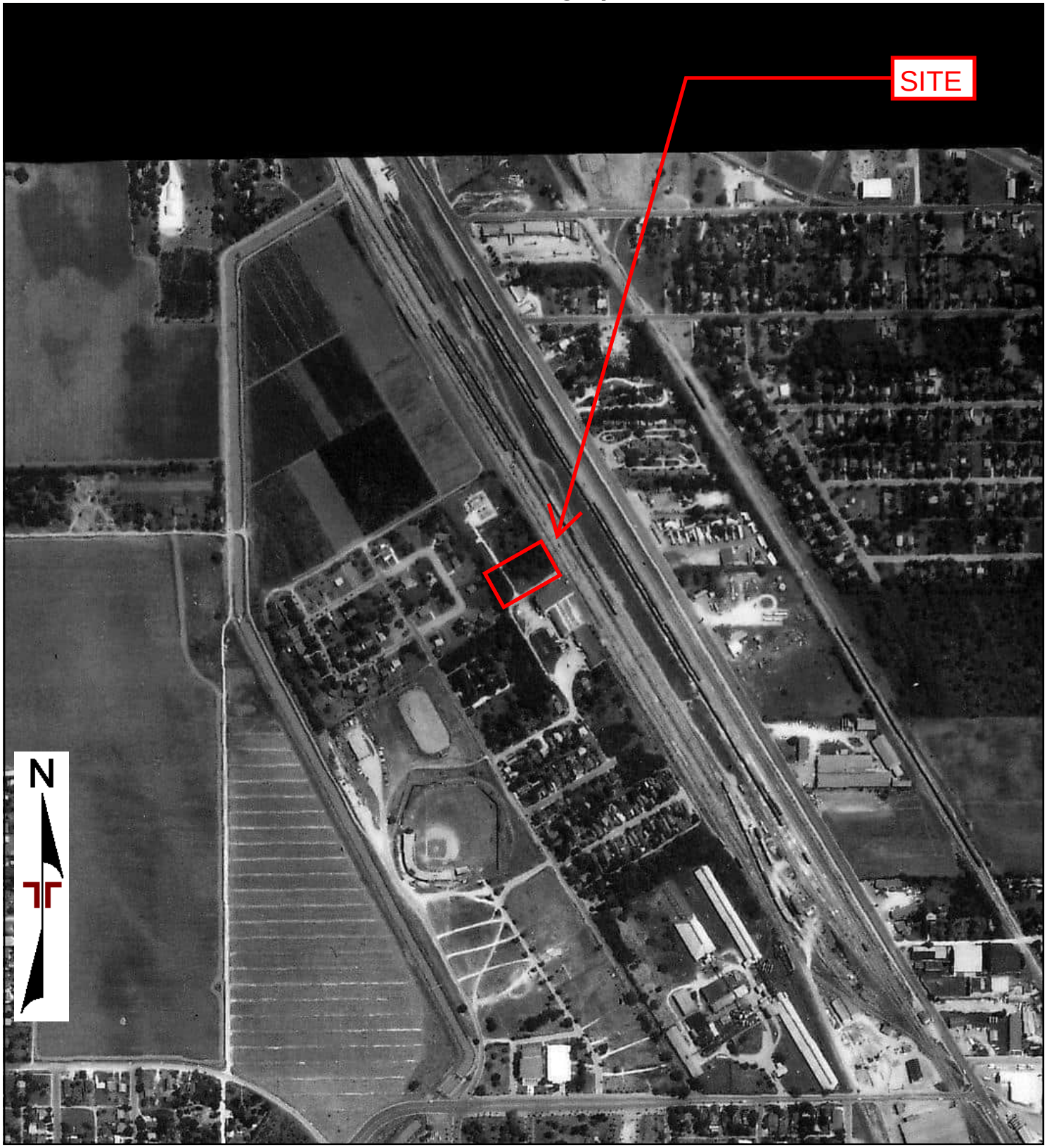
Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	2005 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 2005			

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1995 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1995			

0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1983 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1983			



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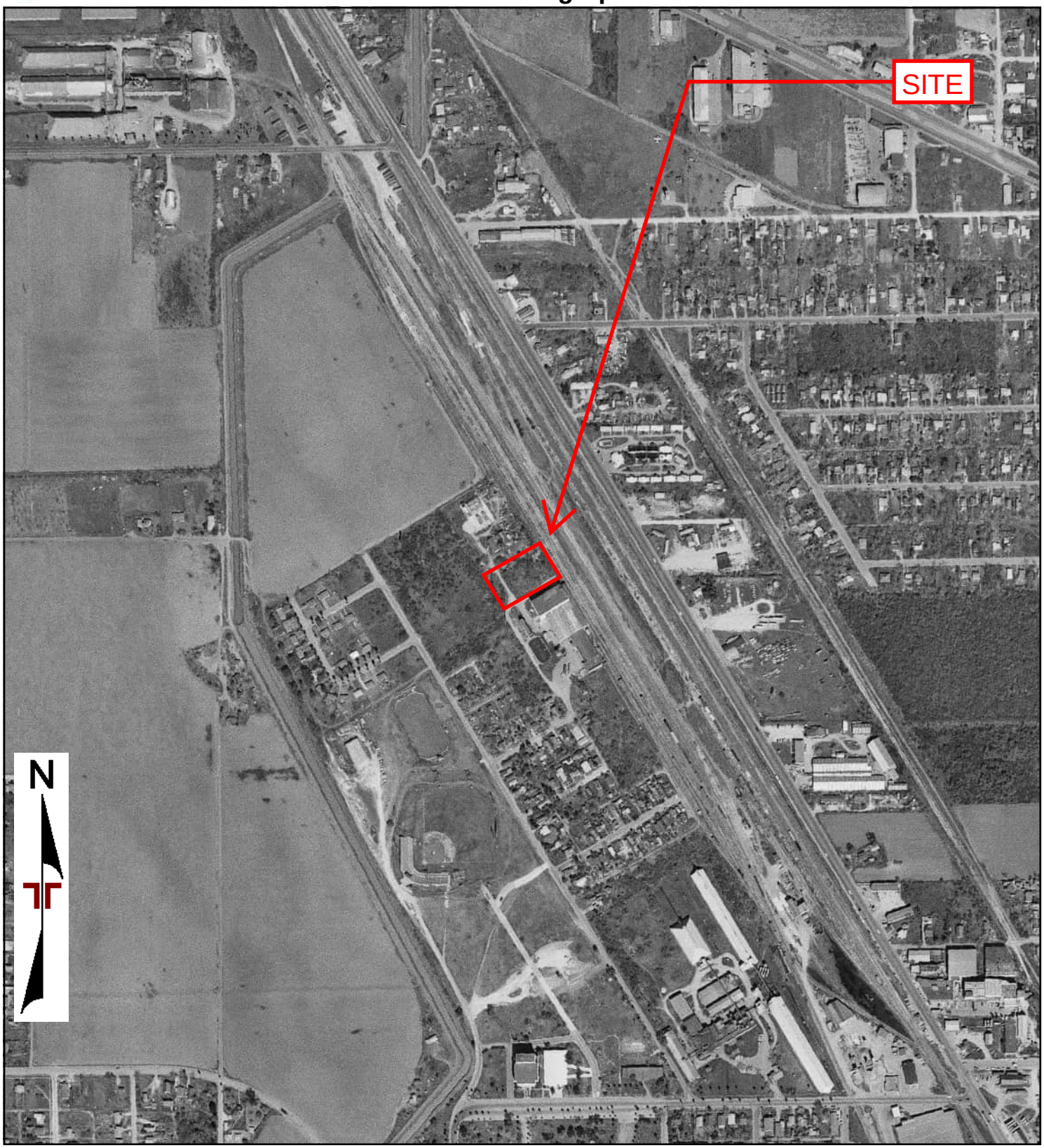
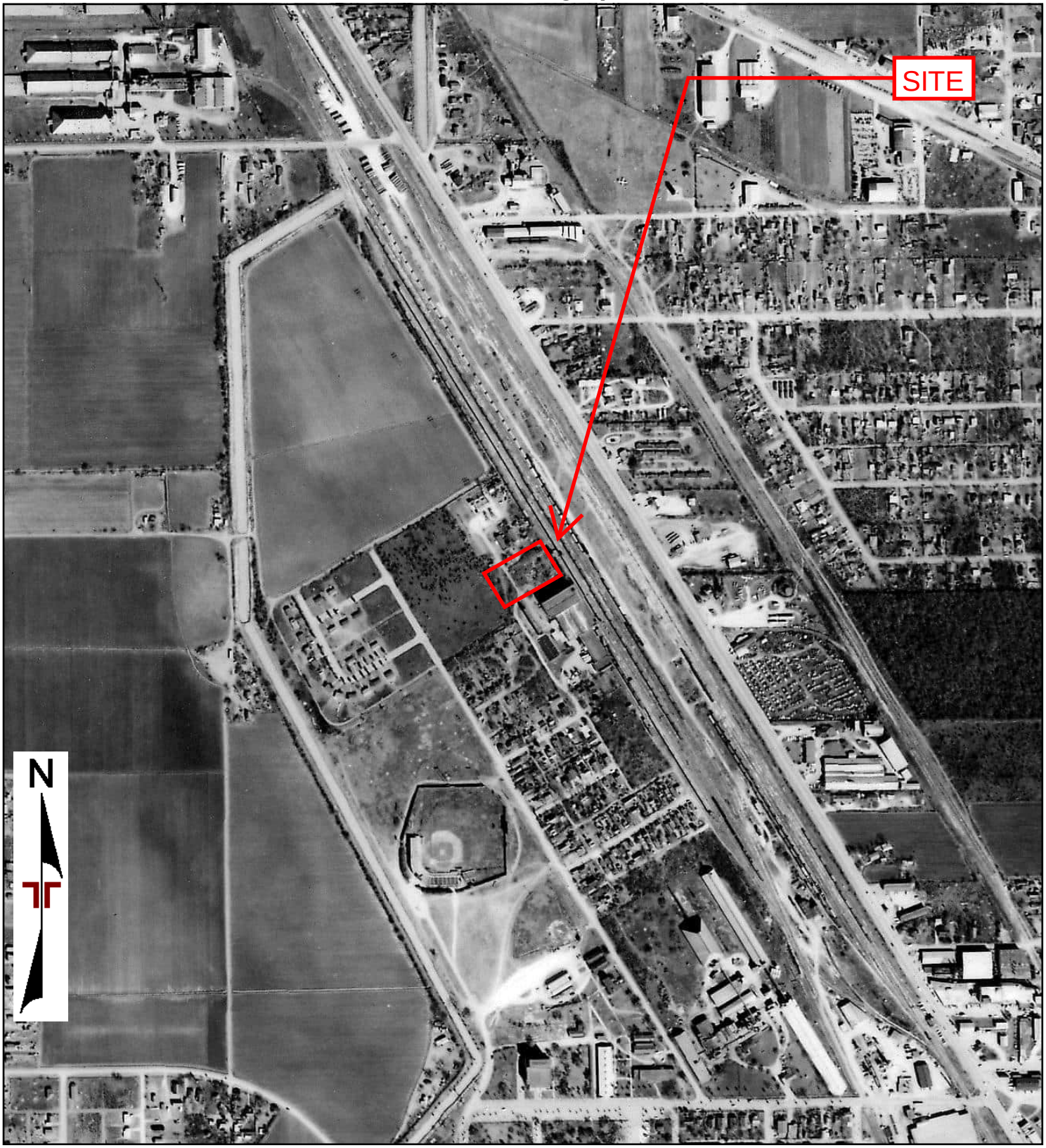
Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1977 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1977			



0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1970 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1970			



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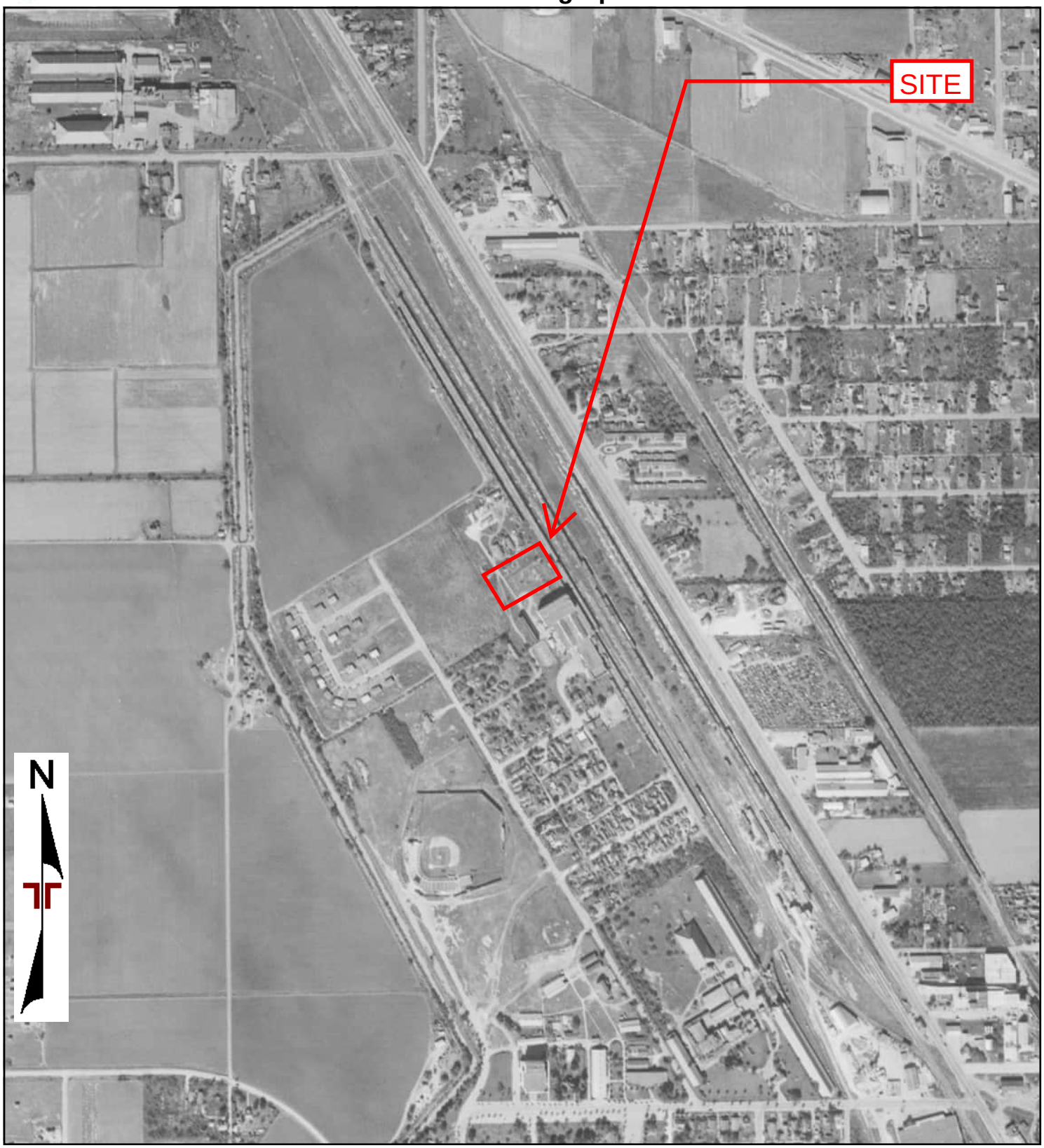
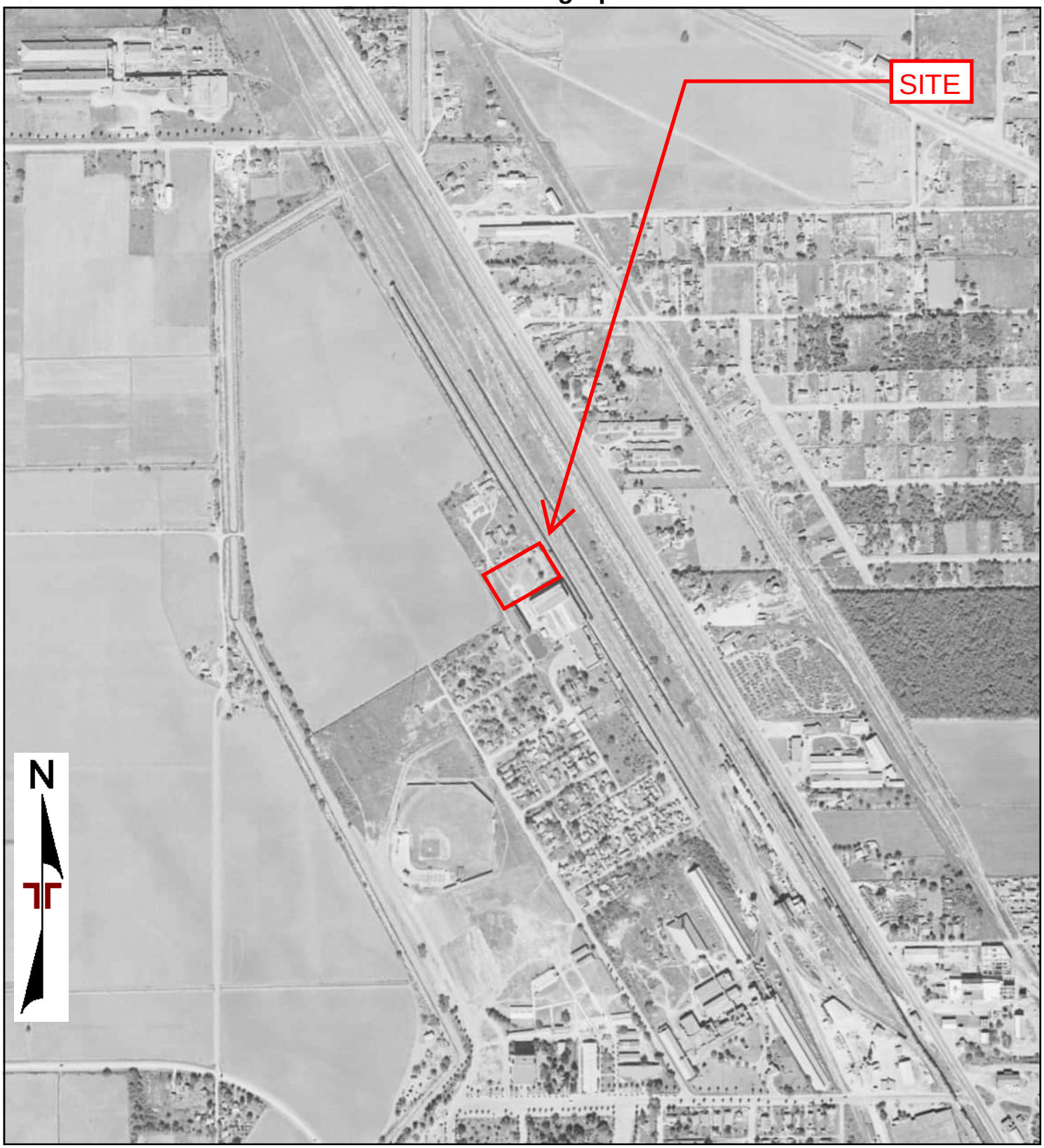
Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1962 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1962			



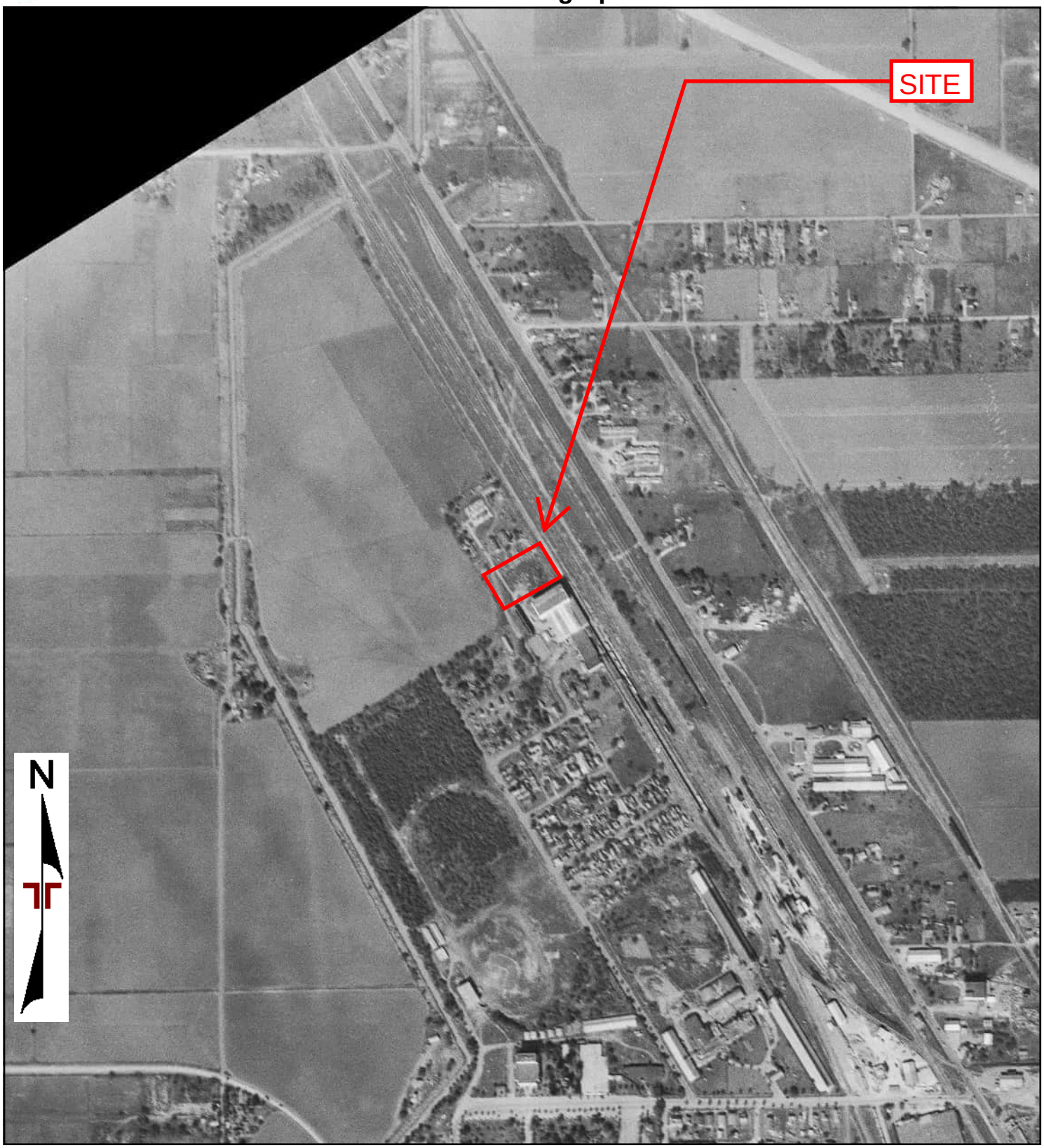
0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1954 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1954			



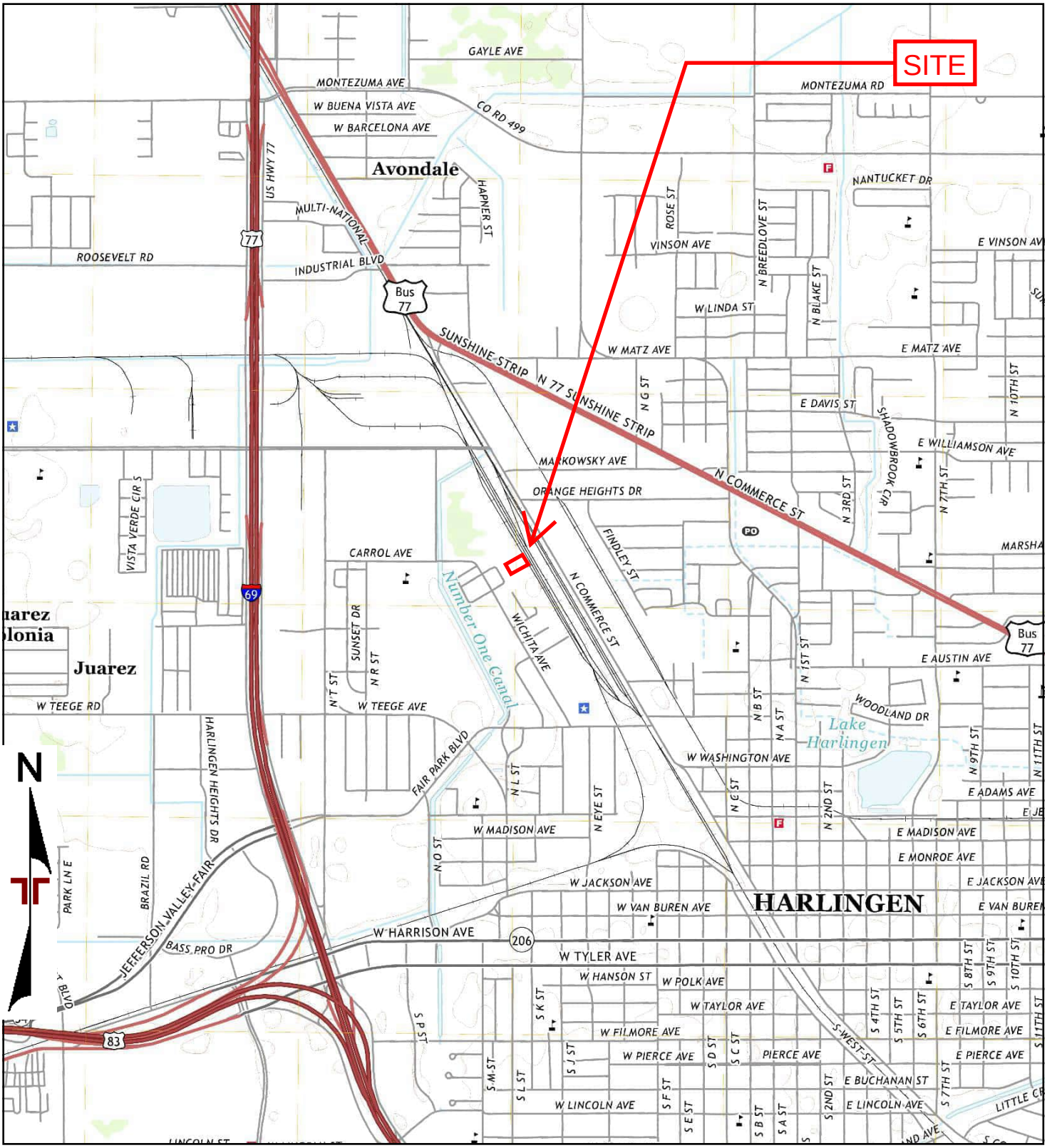
0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1950 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1950			



0 Feet 500 1000 2000

Project Manager: JAG	Project No: 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1946 AERIAL PHOTOGRAPH Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas	Appendix C
Drawn By: JAG	Scale: As Shown			
Checked By: DLG	File Name:			
Approved By: DLG	Date: 1946			



TP, Harlingen, 2019, 7.5-minute

0 Miles 0.25 0.5 1 1.5

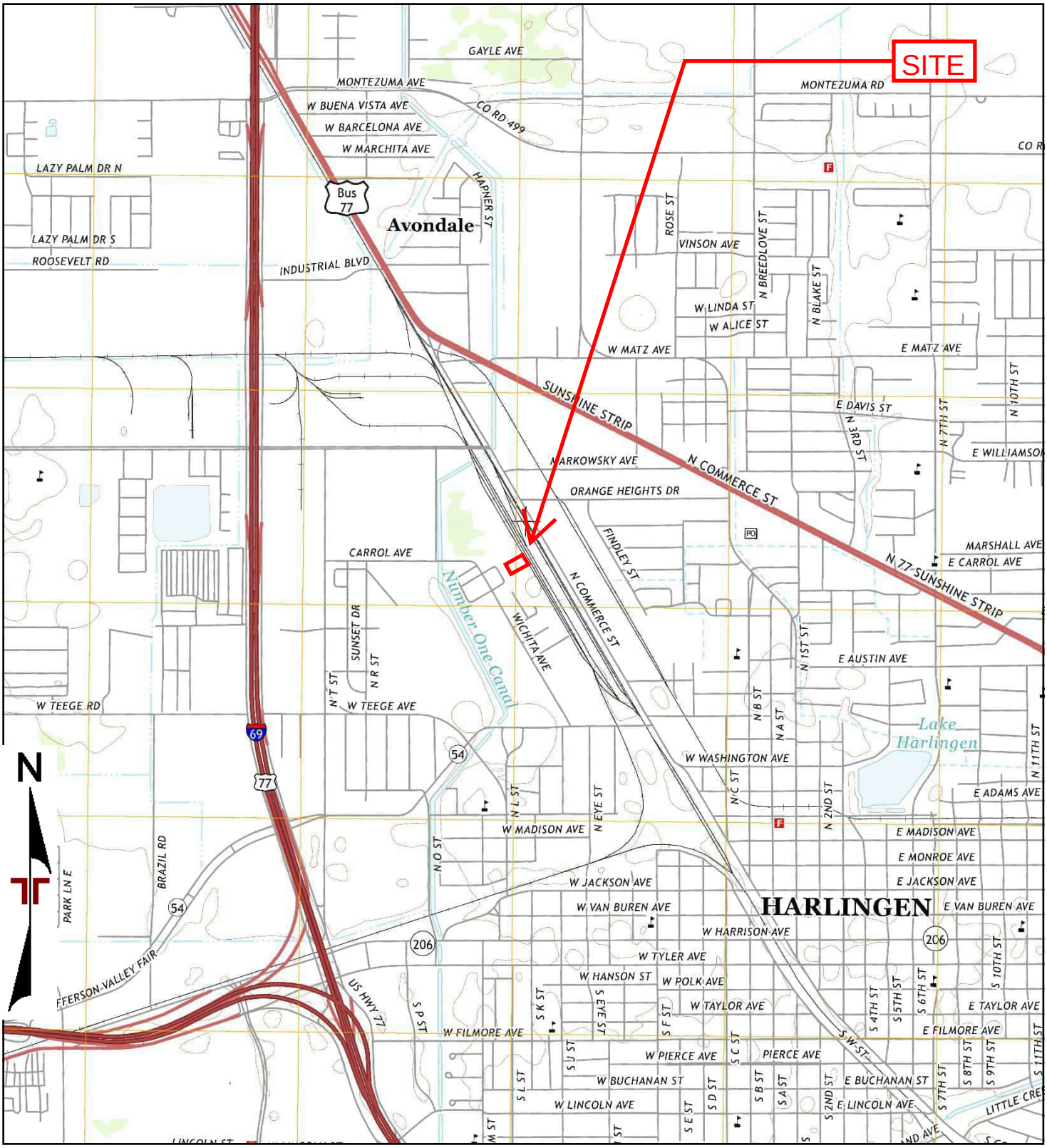
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 2019

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

2019 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



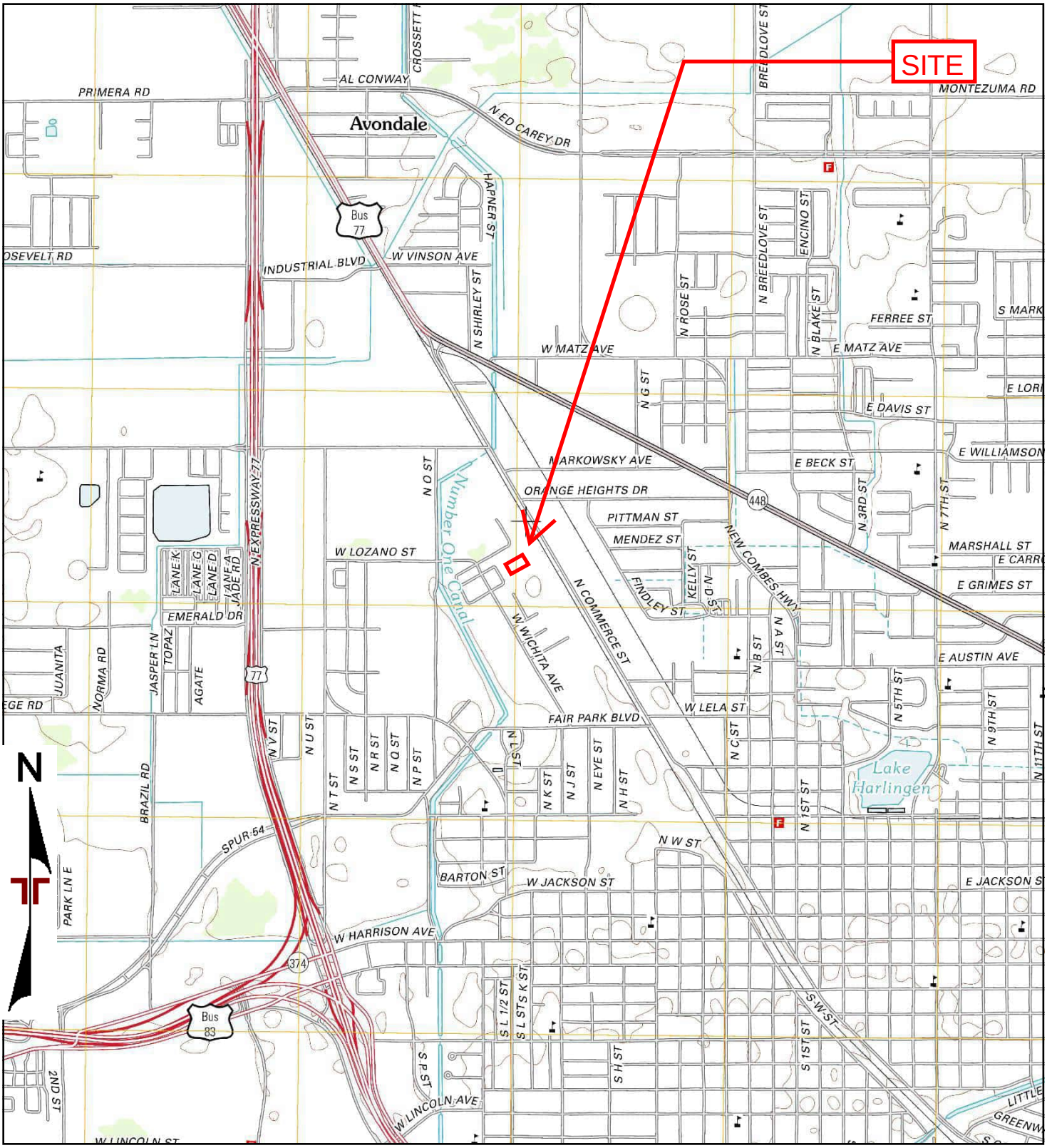
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 2016

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

2016 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, Harlingen, 2013, 7.5-minute

0 Miles 0.25 0.5 1 1.5

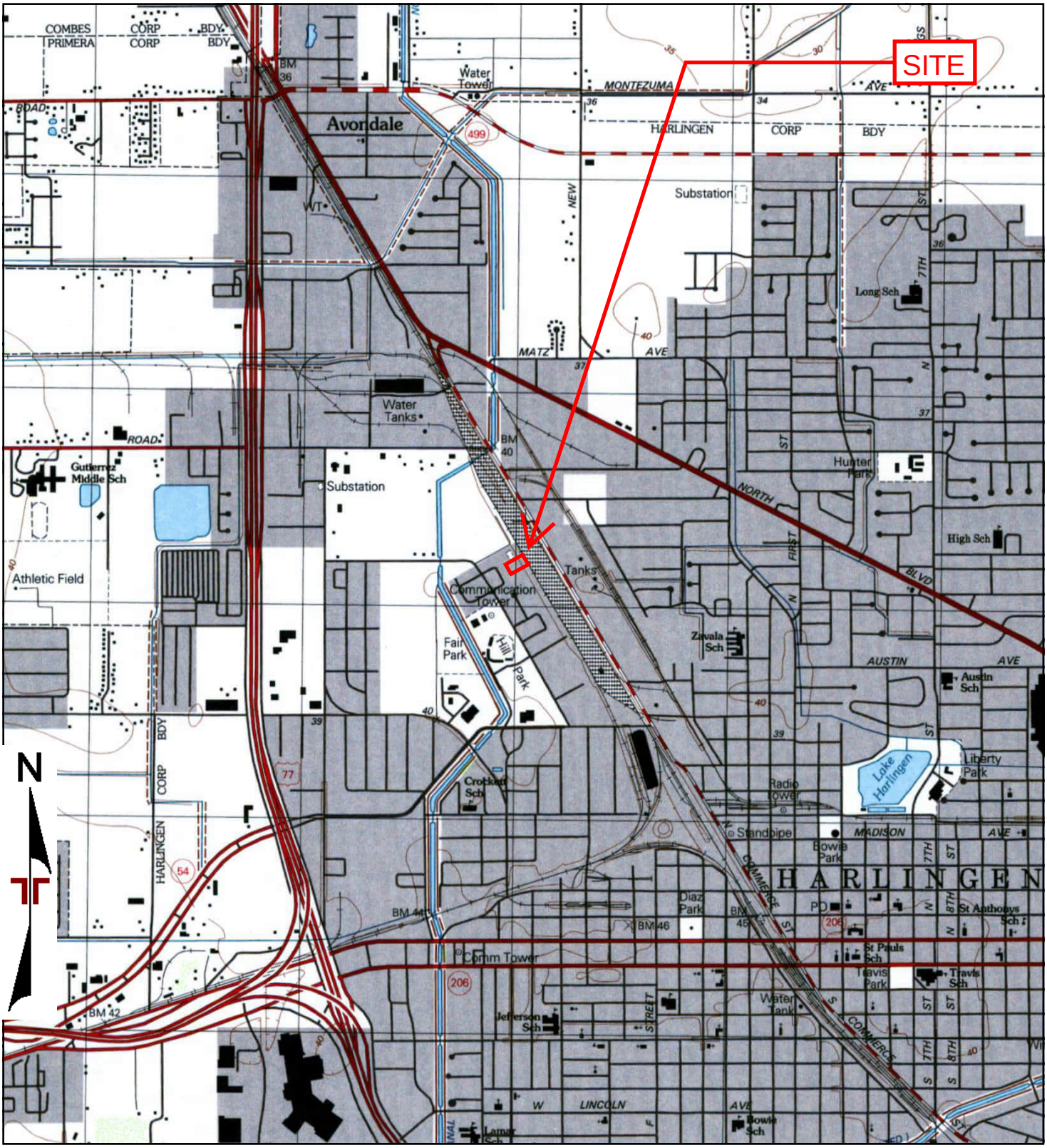
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 2013

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

2013 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, HARLINGEN, 2002, 7.5-minute

0 Miles 0.25 0.5 1 1.5

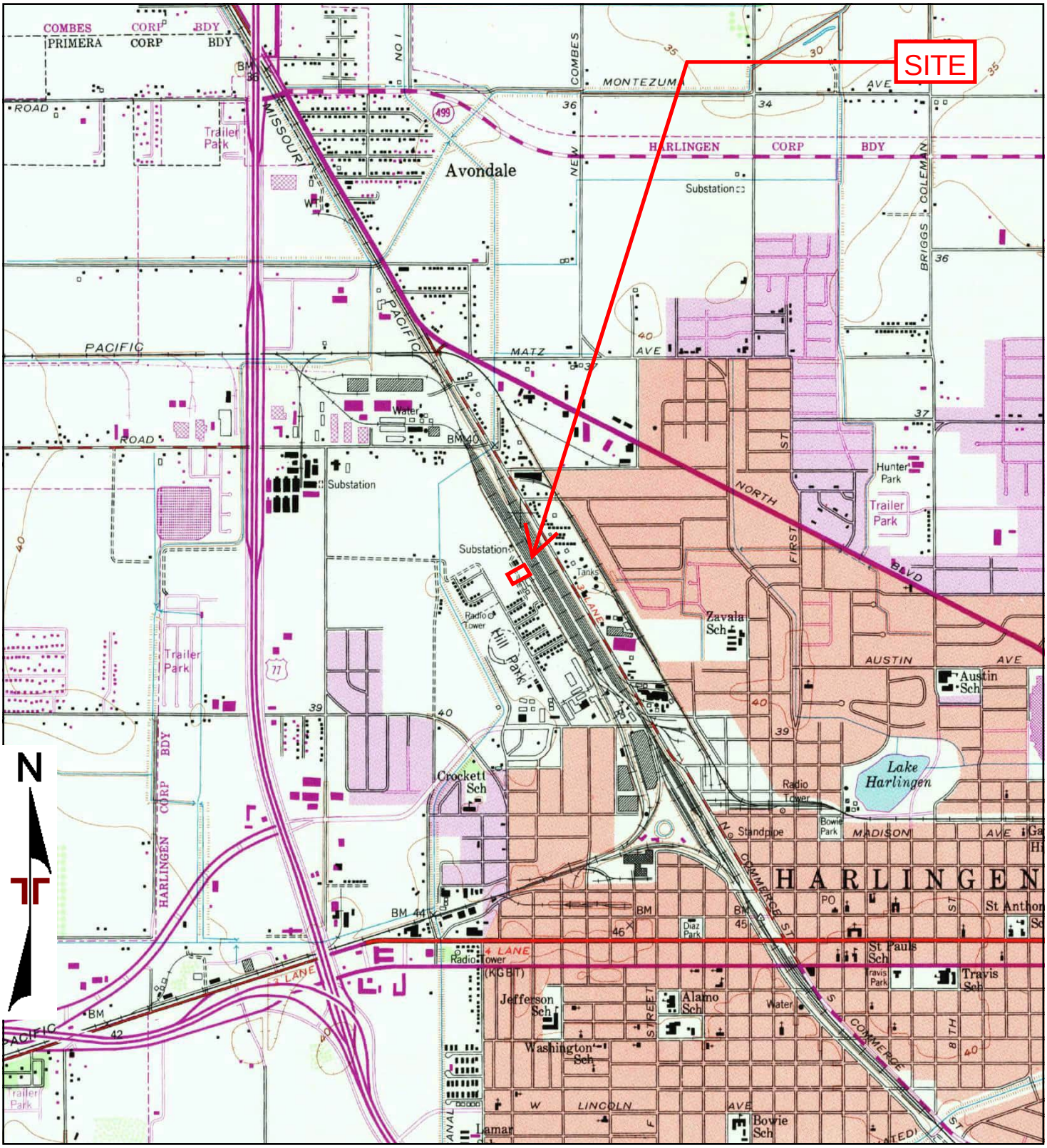
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 2002

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

2002 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, Harlingen, 1983, 7.5-minute

0 Miles 0.25 0.5 1 1.5

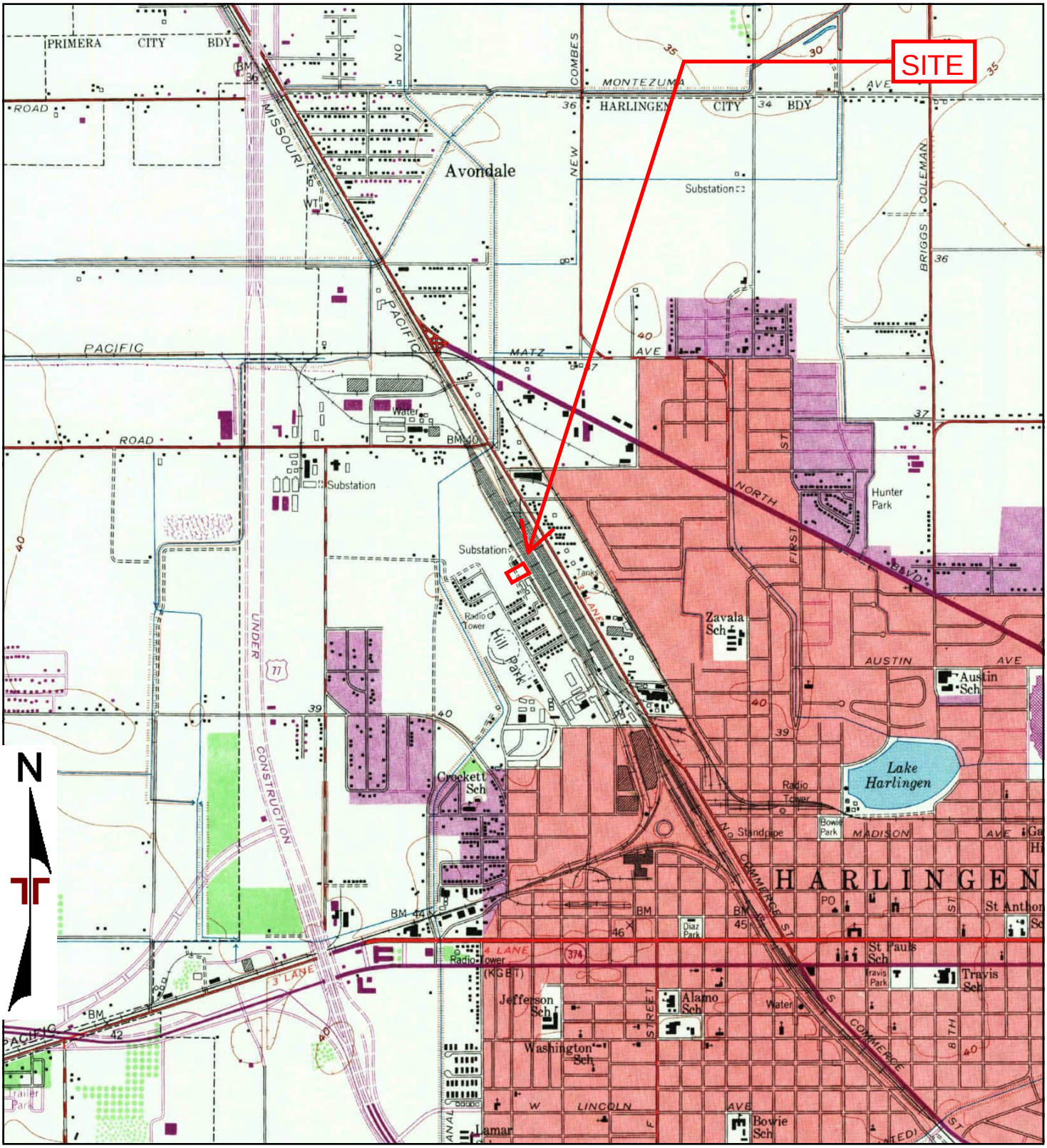
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 1983

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

1983 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, Harlingen, 1970, 7.5-minute

0 Miles 0.25 0.5 1 1.5

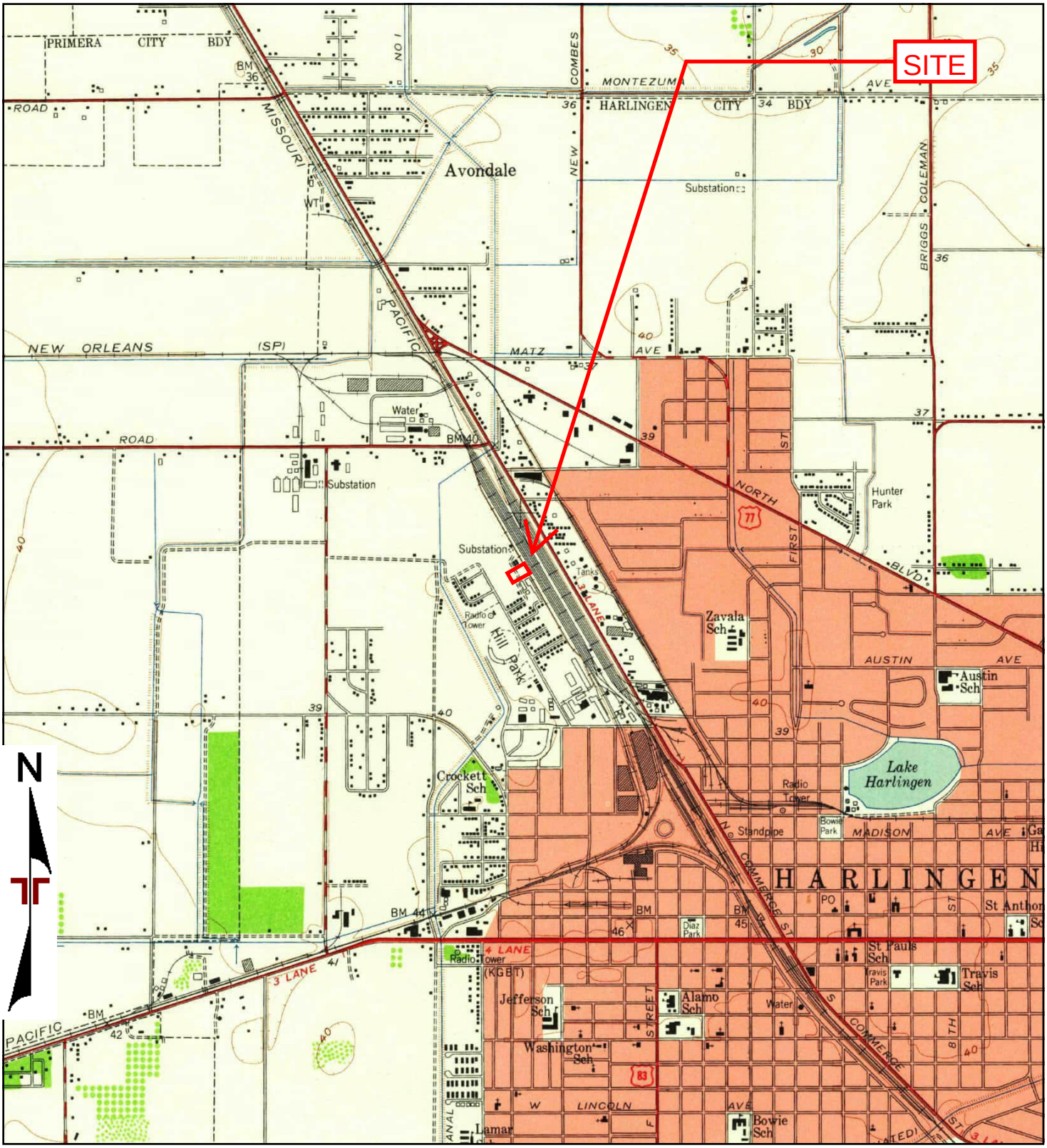
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 1970

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

1970 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, Harlingen, 1956, 7.5-minute

0 Miles 0.25 0.5 1 1.5

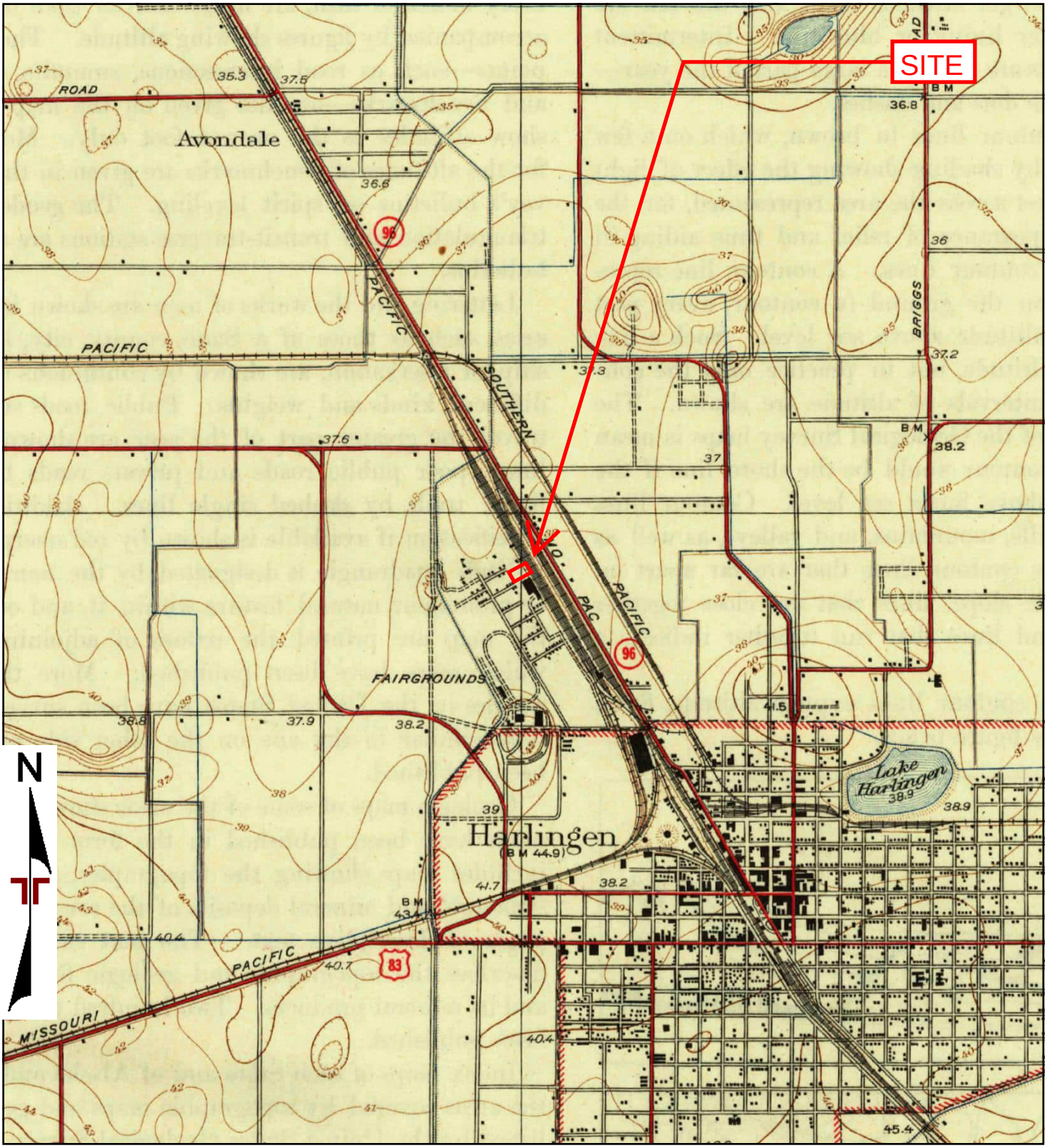
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 1956

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

1956 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix C



TP, Harlingen, 1932, 7.5-minute

0 Miles 0.25 0.5 1 1.5

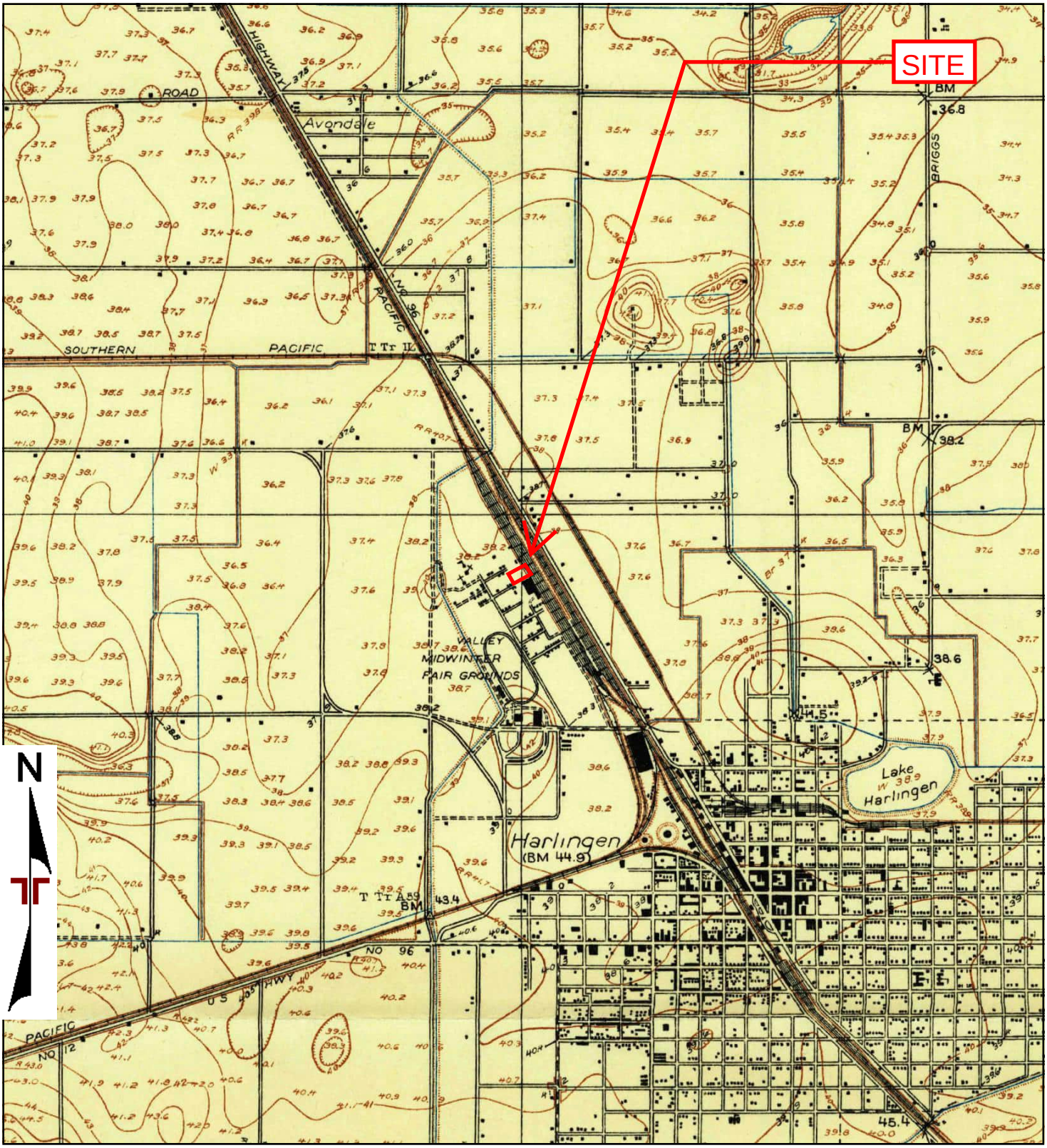
Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 1932

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

1932 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

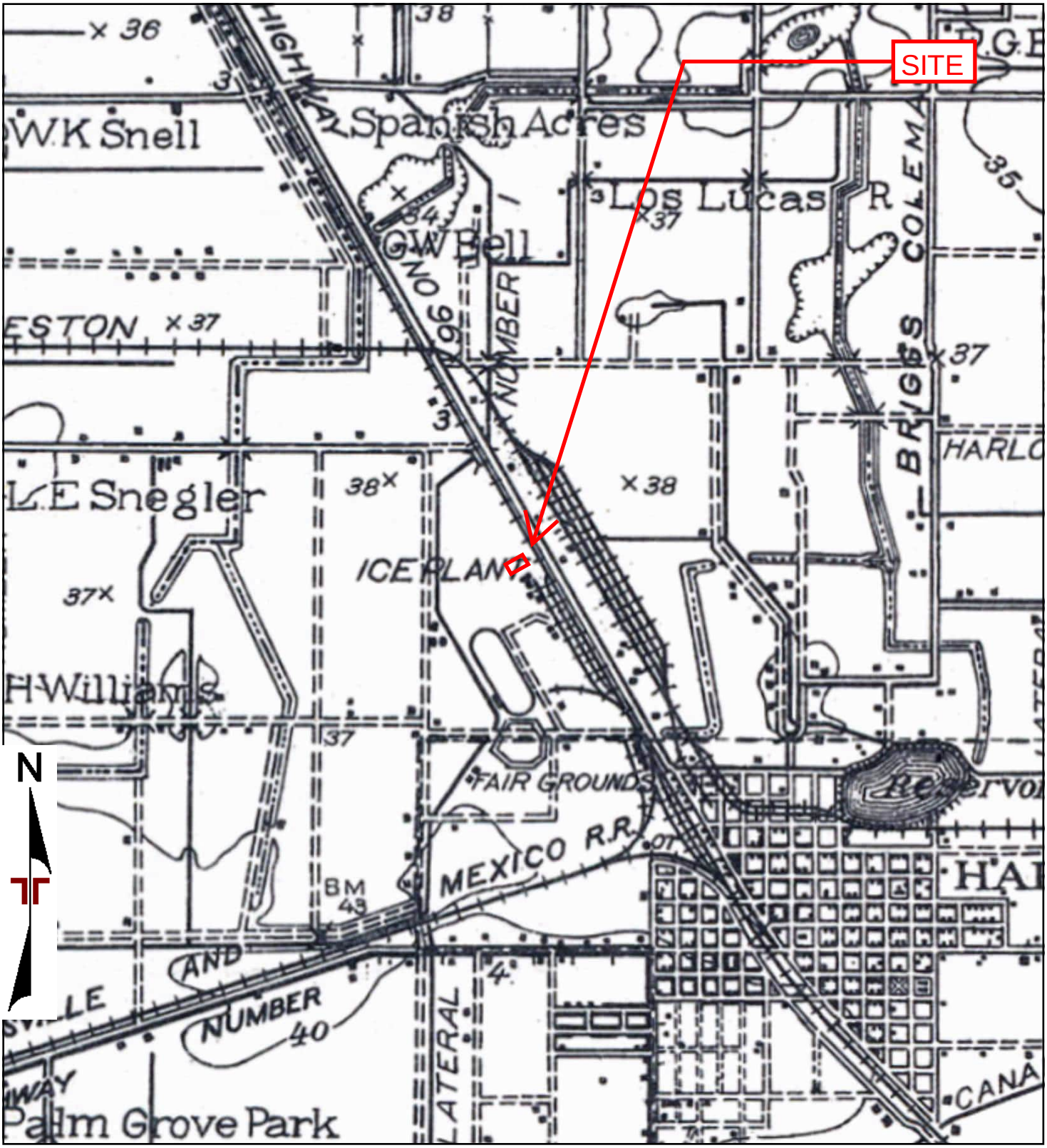
Appendix C



TP, Harlingen, 1929, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager: JAG	Project No. 88237264	Terracon	1929 TOPOGRAPHIC MAP
Drawn by: JAG	Scale: As Shown	1506 Mid-Cities Drive Pharr, TX 78577	Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas
Checked by: DLG	File Name:		Appendix C
Approved by: DLG	Date: 1929		

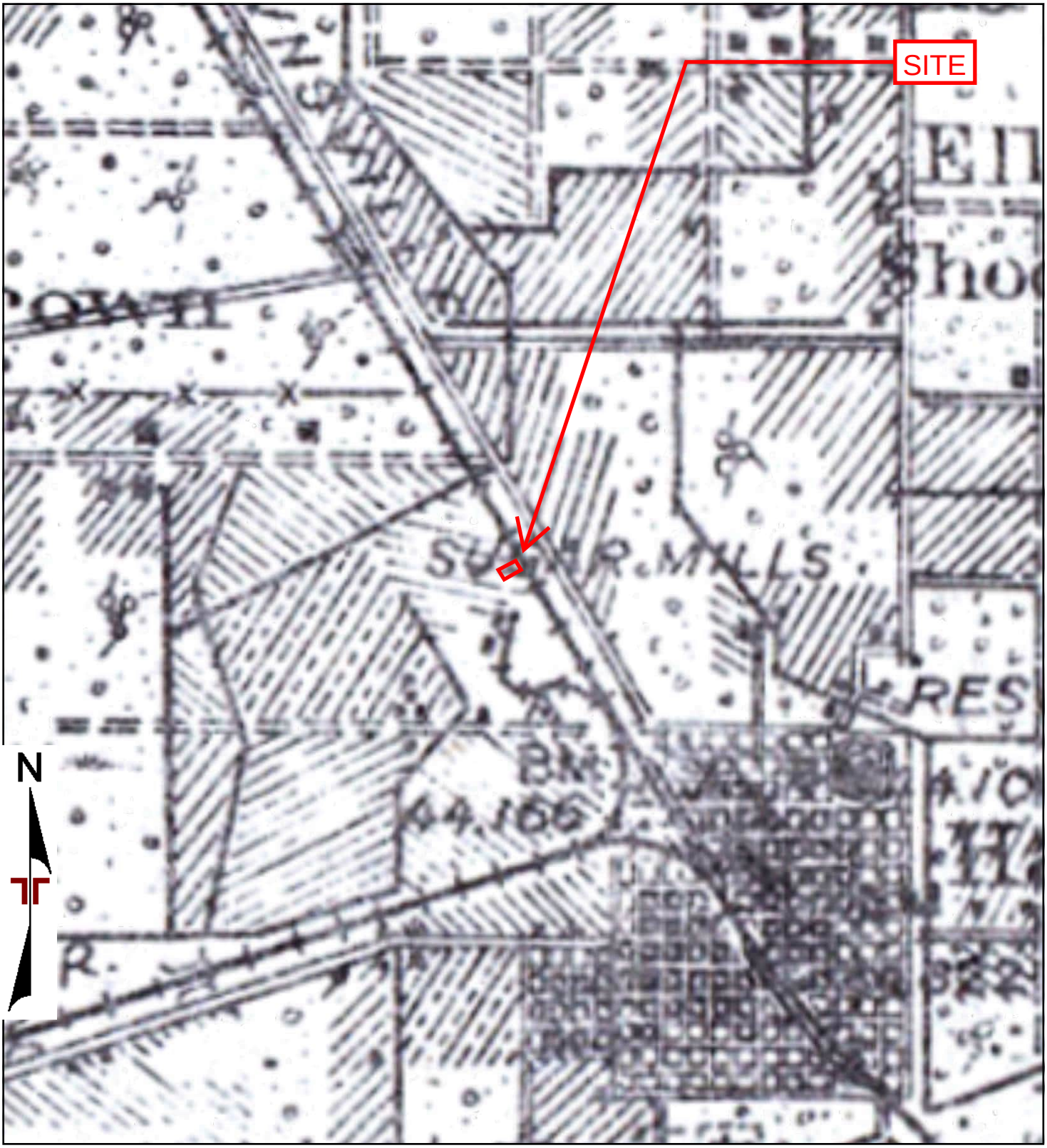


TP, SAN BENITO, 1925, 15-minute

0 Miles 0.25 0.5 1 1.5

Project Manager: JAG	Project No. 88237264	Terracon 1506 Mid-Cities Drive Pharr, TX 78577	1925 TOPOGRAPHIC MAP Harlingen Undeveloped Land 1335 West Memphis Street Harlingen, Cameron County, Texas
Drawn by: JAG	Scale: As Shown		
Checked by: DLG	File Name:		
Approved by: DLG	Date: 1925		

Appendix C



Project Manager: JAG	Project No. 88237264
Drawn by: JAG	Scale: As Shown
Checked by: DLG	File Name:
Approved by: DLG	Date: 1922

Terracon
1506 Mid-Cities Drive
Pharr, TX 78577

1922 TOPOGRAPHIC MAP

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, Cameron County, Texas

Appendix
C

ASTM E1527-21 User Questionnaire

Date Completed	8-23-23
Person Completing Questionnaire	Name: Phone: Company: AREA group Email: 214 682 4912
Site Name	Harlingen Undeveloped Land
Site Address	1335 West Memphis Street, Harlingen, TX 78550
Point of Contact for Access	Name: Phone: Company: aaron ashmore Email: 214 682 4912
Access Restrictions or Special Site Requirements?	_X_No ___Yes (If yes, please explain)
Confidentiality Requirements?	_X_No ___Yes (If yes, please explain)
Current Site Owner	Name: Phone: Company: Enrique abundiz Email: 956 357 5387
Current Site Operator	Name: Phone: Company: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	lease
Anticipated Future Site Use	battery energy storage system
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.

ASTM User Questionnaire

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

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?

___No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?

___No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?

___No ___Yes (If yes, explain below)

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?

___No ___Yes ___Not applicable (If yes or Not applicable, explain below)

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

___No ___Yes (If yes, explain below)

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?

___No ___Yes (If yes, explain below)

Comments or explanations:

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

Harlingen Undeveloped Land
1335 West Memphis Street
Harlingen, TX 78550

Inquiry Number: 7427688.2s
August 28, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

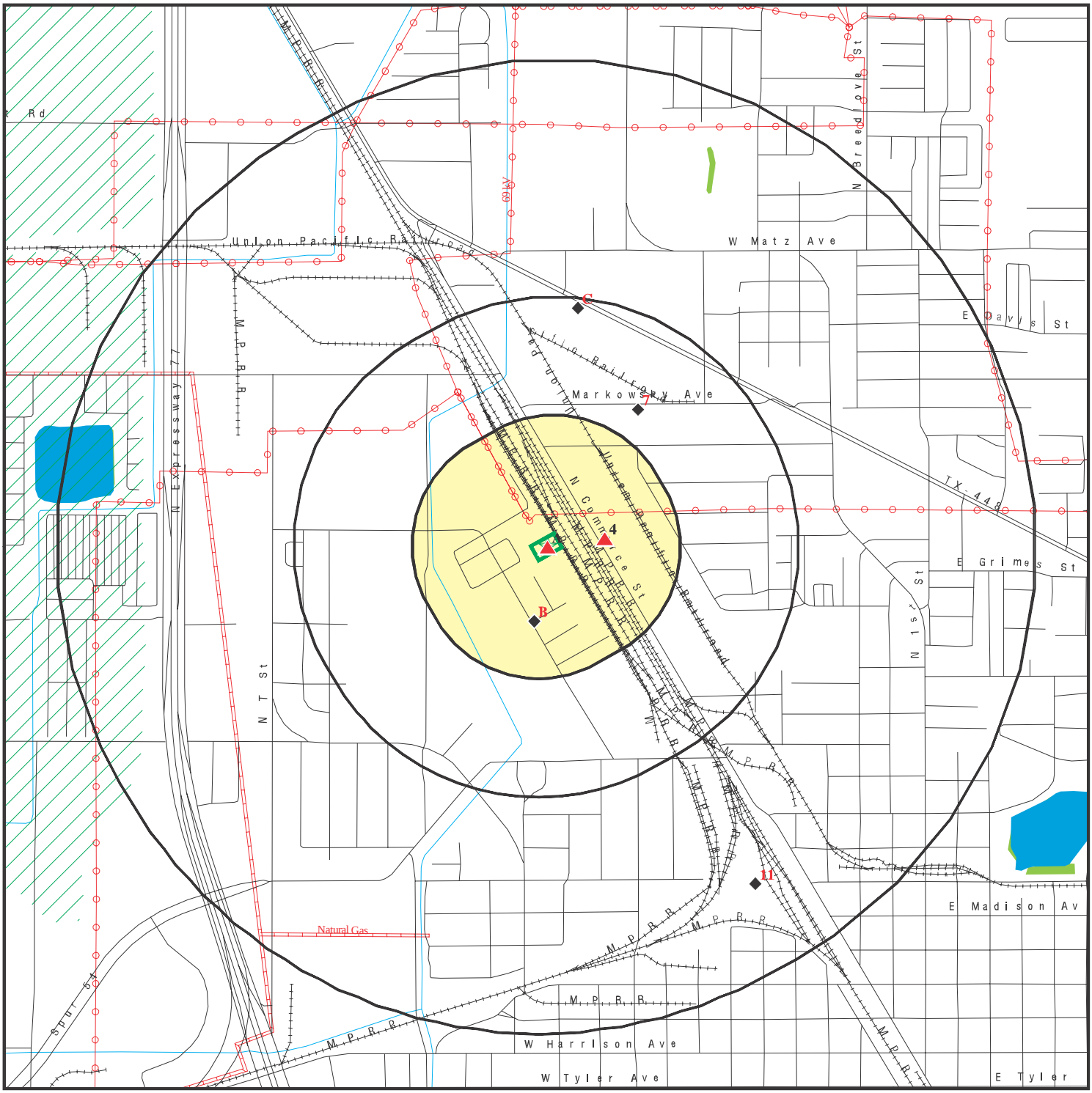
MAPPED SITES SUMMARY

Target Property Address:
1335 WEST MEMPHIS STREET
HARLINGEN, TX 78550

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		1335 MEMPHIS ST	ERNS		TP
A2	HARLINGEN ICE	1335 W MEMPHIS ST	CENTRAL REGISTRY		TP
A3	SOUTHWESTERN ICE CO.	SOUTHWESTERN ICE CO.	SPILLS		TP
4	BYS FIX IT SHOP	1318 N COMMERCE	EDR Hist Auto	Higher	485, 0.092, East
B5	SOUTHEASTERN PUBLIC	END OF MEMPHIS ST	AST	Lower	683, 0.129, South
B6	SOUTHEASTERN PUBLIC	END OF MEMPHIS ST	UST	Higher	833, 0.158, South
7	SOUTHERN UNION GAS C	1001 MARKOWSKY	RDR	Lower	1669, 0.316, NNE
C8	CLOSED	2115 N 77 SUNSHINEST	LPST, UST	Lower	2351, 0.445, North
C9	GUENZEL METAL PRODUC	2115 N 77 SUNSHINE S	SEMS-ARCHIVE	Lower	2351, 0.445, North
C10	MION TERAZZO TILE &	2045 N 77 SUNSHINEST	LPST, UST, GCC	Lower	2524, 0.478, North
11	NIAGARA CHEMICAL		DEL SHWS	Lower	4321, 0.818, SSE

OVERVIEW MAP - 7427688.2S



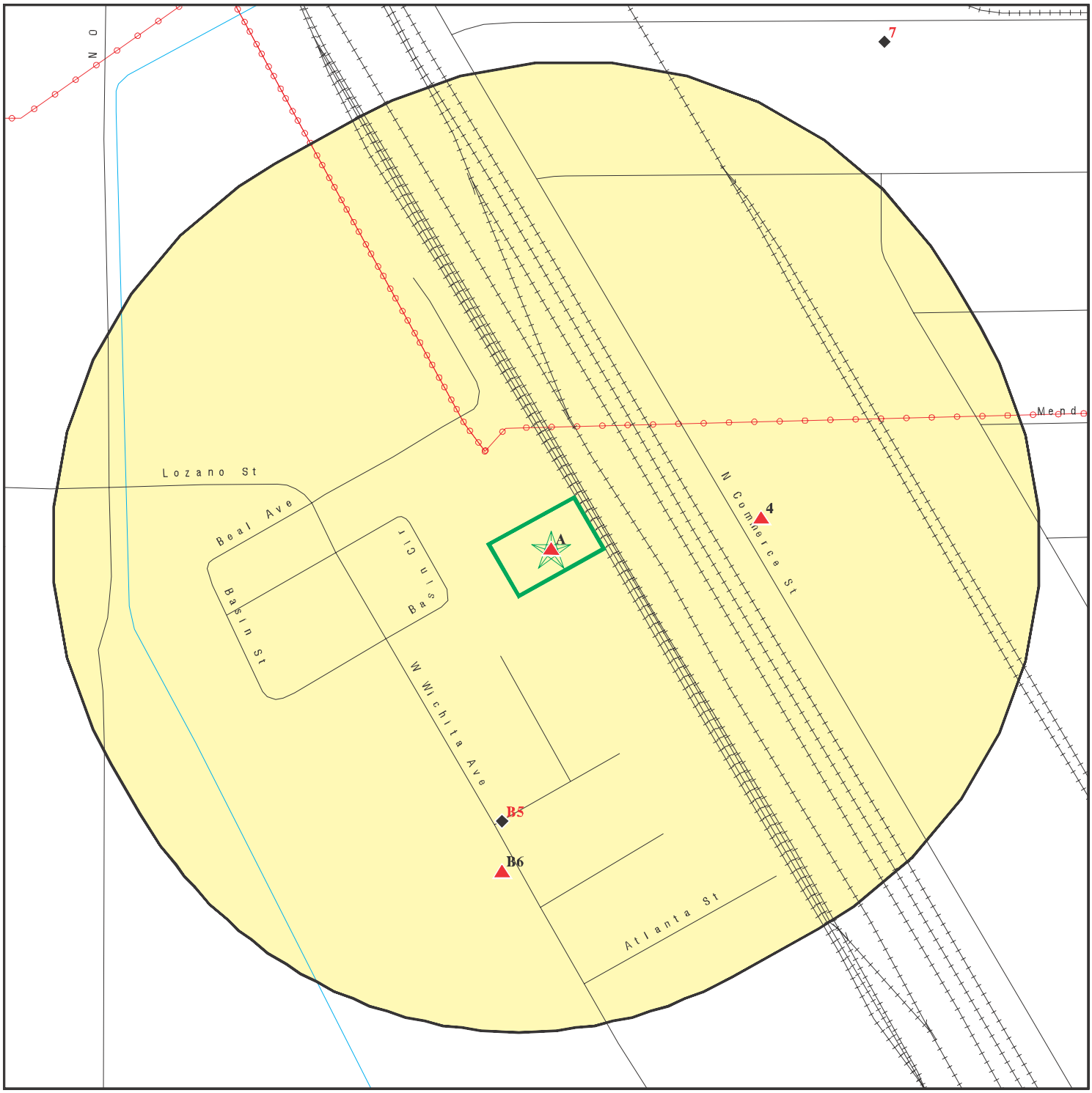
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Harlingen Undeveloped Land	CLIENT: Terracon Consulting
ADDRESS: 1335 West Memphis Street Harlingen TX 78550	CONTACT: Joe Garcia
LAT/LONG: 26.206143 / 97.708447	INQUIRY #: 7427688.2s DATE: August 28, 2023 12:11 pm

DETAIL MAP - 7427688.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Harlingen Undeveloped Land	CLIENT:	Terracon Consulting
ADDRESS:	1335 West Memphis Street Harlingen TX 78550	CONTACT:	Joe Garcia
		INQUIRY #:	7427688.2s
LAT/LONG:	26.206143 / 97.708447	DATE:	August 28, 2023 12:12 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
Lists of state- and tribal (Superfund) equivalent sites								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
CLI	0.500		0	0	0	NR	NR	0
WASTE MGMT	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
INDIAN LUST	0.500		0	0	0	NR	NR	0
LPST	0.500		0	0	2	NR	NR	2
RDR	0.500		0	0	1	NR	NR	1
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.500		0	0	0	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
PRIORITYCLEANERS	0.500		0	0	0	NR	NR	0
DEL SHWS	1.000		0	0	0	1	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
CENTRAL REGISTRY	TP	1	NR	NR	NR	NR	NR	1
Local Lists of Registered Storage Tanks								
NON REGIST PST	0.250		0	0	NR	NR	NR	0
Local Land Records								
HIST LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
APAR	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ED AQUIF	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GCC	TP		NR	NR	NR	NR	NR	0
IOP	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
Ind. Haz Waste	0.250		0	0	NR	NR	NR	0
MSD	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
RWS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
IHW CORR ACTION	0.250		0	0	NR	NR	NR	0
PST STAGE 2	0.250		0	0	NR	NR	NR	0
COMP HIST	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		3	1	2	4	1	0	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **ERNS** **96358014**
Target **1335 MEMPHIS ST** **N/A**
Property **HARLINGEN, TX 78550**

Site 1 of 3 in cluster A

Actual:
40 ft.

Incident Commons:

NRC Report #:	358014
Description of Incident:	500LBS RECIEVER / TRANSFORMERS SHORTED OUT RESULTING IN CONDENSORMALFUNCTION AND RELEASE FROM POP-OFF VALVE
Type of Incident:	FIXED
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	1996-08-23 06:30:00
Incident DTG:	OCCURRED
Loaction Address:	1335 MEMPHIS ST
Location Street 1:	FAIRPARK EDITION
Location Nearest City:	HARLINGEN
Location State:	TX
Location County:	CAMERON
Location Zip:	78550

Incidents:

Year:	1996
NRC Report #:	358014
Aircraft Type:	UNKNOWN
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Device Operational:	Y
Brake Failure:	N
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Allision:	N
Structure Operational:	Y
Sub Part C Testing Req:	XXX
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1996
NRC Report #:	358014
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	Y
Number Evacuated:	50
Any Injuries:	U
Any Fatalities:	U
Any Damages:	N
Air Corridor Closed:	N

(Continued) **96358014**

Waterway Closed:	N
Road Closed:	N
Major Artery:	N
Track Closed:	N
Medium Desc:	AIR
Additional Medium Info:	ATMOSPHERE
Release Secured:	U
Desc Remedial Action:	SECURED / FIRE DEPT RESPONDED / REPAIRS BEING MADE
Water Supply Contaminated:	U
Community Impact:	N
Additional Info:	ONE BLOCK OF PRIVATE CITIZENS EVACUATED AS A PRECAUTION /WILL NOTIFY: TNRCC, TX WATER COMMISSION
Offshore:	N
Passengers Transferred:	UNK

Calls:

Year:	1996
NRC Report #:	358014
Site ID:	96358014
Date Time Received:	1996-08-23 09:55:23
Date Time Complete:	1996-08-23 10:04:05
Call Type:	INC
Responsible Company:	SOUTHWESTERN ICE INC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HARLINGEN
Responsible State:	TX
Responsible Zip:	78550
Source:	UNAVAILABLE

Material Involved:

Year:	1996
NRC Report #:	358014
Chris Code:	AMA
Amount of Material:	500
Unit of Measure:	POUND(S)
Name of Material:	AMMONIA, ANHYDROUS
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	NONE

A2 **HARLINGEN ICE** **CENTRAL REGISTRY** **S126668136**
Target **1335 W MEMPHIS ST** **N/A**
Property **HARLINGEN, TX 78550**

Site 2 of 3 in cluster A

Actual:
40 ft.

CENTRAL REGISTRY:

Regulated Entity Number:	RN103787164
Name:	HARLINGEN ICE
Address:	1335 W MEMPHIS ST
City,State,Zip:	HARLINGEN, TX 78550-4613
Status:	ACTIVE
Status Date:	2003-08-13
Customer Number:	CN602304867
Customer Name:	HARLINGEN ICE CO LP
Customer Legal Name:	Harlingen Ice Company, L.P.

HARLINGEN ICE (Continued) **S126668136**

Customer Ownership Type:	PARTNERSHIP
Affiliation Begin Date:	2001-11-12
Affiliation End Date:	3000-12-31
Customer Status:	UNVALD
Primary NAICS Industry Type Code:	312113
Primary NAICS Industry Type Description:	Ice Manufacturing
Regulated Entity Number:	RN103787164
Name:	HARLINGEN ICE
Address:	1335 W MEMPHIS ST
City,State,Zip:	HARLINGEN, TX 78550-4613
Status:	ACTIVE
Status Date:	2003-08-13
Customer Number:	CN602304867
Customer Name:	HARLINGEN ICE CO LP
Customer Legal Name:	Harlingen Ice Company, L.P.
Customer Ownership Type:	PARTNERSHIP
Affiliation Begin Date:	2001-11-12
Affiliation End Date:	3000-12-31
Customer Status:	UNVALD
Primary NAICS Industry Type Code:	312113
Primary NAICS Industry Type Description:	Ice Manufacturing

A3 Target Property **SOUTHWESTERN ICE CO., 1335 MEMPHIS ST (FAIR PARK A** **SPILLS** **S102330519**
SOUTHWESTERN ICE CO., 1335 MEMPHIS ST (FAIR PARK ADD.), HARL **N/A**
HARLINGEN, TX

Site 3 of 3 in cluster A

Actual: 40 ft.

SPILLS:

Name:	SOUTHWESTERN ICE CO., 1335 MEMPHIS ST (FAIR PARK ADD.), HARLINGEN
Address:	SOUTHWESTERN ICE CO., 1335 MEMPHIS ST (FAIR PARK ADD.), HARLINGEN
City,State,Zip:	HARLINGEN, TX
Date of Spill:	08/23/1996
Seq Num:	4
Responsible Party Name:	SOUTHWESTERN ICE CO.
Responsible Party Address:	1335 Memphis St
Responsible Party City:	HARLINGEN
Responsible Party State:	TX
Responsible Party Zip:	78550
Responsible Party Telephone:	2104235892
Substance:	Ammonia
Material Code:	2013
Media Affected:	A
District:	15
Origin:	001
Cause:	002
Adequate Clean:	004
Classification:	004
Water Affected:	none
Amnt Spilled:	500 lbs
Inspected By:	Harlingen Fire
Interim Report:	F
Information Final:	T
Coordinator:	David Barker (fax)
Time Reported:	0830
Spill Time:	0630

4
East
< 1/8
0.092 mi.
485 ft.

BYS FIX IT SHOP
1318 N COMMERCE
HARLINGEN, TX 78550

EDR Hist Auto **1020970342**
N/A

Relative:
Higher

Actual:
40 ft.

EDR Hist Auto

Year:	Name:	Type:
1988	BYS FIX IT SHOP	General Automotive Repair Shops
1989	HOLESHOT CYCLE SERVICE	Gasoline Service Stations
1989	BYS FIX IT SHOP	General Automotive Repair Shops

B5
South
1/8-1/4
0.129 mi.
683 ft.

SOUTHEASTERN PUBLIC SERVICE
END OF MEMPHIS ST
HARLINGEN, TX

Site 1 of 2 in cluster B

AST **U003425074**
N/A

Relative:
Lower

Actual:
39 ft.

AST:

Name:	SOUTHEASTERN PUBLIC SERVICE
Address:	END OF MEMPHIS ST
City,State,Zip:	HARLINGEN, TX
Facility ID:	51906
Additional ID:	589417922002138
AI Number:	12684
Facility Type:	FLEET REFUELING
Facility Begin Date:	08/04/1986
Facility Status:	INACTIVE
Facility Exempt Status:	N
Records Off-Site:	N
UST Financial Assurance Required:	N
Number of Active ASTs:	0
Site Location Description:	END OF MEMPHIS ST
Site Location (nearest city name):	HARLINGEN
Site Location (county name):	CAMERON
Site Location (TCEQ region):	15
Site Location (location zip):	78550
Contact Name/Title:	/
Contact Organization Name:	SOUTHEASTERN PUBLIC SERVICE
Contact Telephone:	2104235892
Signature Date on Earliest Reg Form:	04/25/1986
Signature First Name on Earliest Reg Form:	W R
Application Received Date on Earliest Reg Form:	05/08/1986
Signature Last Name on Earliest Reg Form:	SEWELL
Signature Title on Earliest Reg Form:	DIV MGR
Facility Not Inspectable:	N

Facility:

Facility ID:	51906
Tank ID:	1
AST ID:	151600
AI Number:	12684
Install Date:	01/01/1983
Tank Registration Date:	05/08/1986
Mult Comp:	N
Tank Status:	OUT OF USE
Tank Status Date:	07/23/1998
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	10500

SOUTHEASTERN PUBLIC SERVICE (Continued) **U003425074**

Substance:	DIESEL
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	Y
Contains NO:	N

B6 **SOUTHEASTERN PUBLIC SERVICE** **UST** **U003842496**
South **END OF MEMPHIS ST** **N/A**
1/8-1/4 **HARLINGEN, TX**
0.158 mi.
833 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
40 ft.

UST:

Name:	SOUTHEASTERN PUBLIC SERVICE
Address:	END OF MEMPHIS ST
City,State,Zip:	HARLINGEN, TX
AI Number:	12684
Facility Type:	FLEET REFUELING
Facility Begin Date:	08/04/1986
Facility Status:	INACTIVE
Additional ID:	589417922002138
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	END OF MEMPHIS ST
Site Location (Nearest City Name):	HARLINGEN
Site Location (County Name):	CAMERON
Site Location (Tceq Region):	15
Site Location (Location Zip):	78550
Contact Name/Title:	,
Contact Organization Name:	SOUTHEASTERN PUBLIC SERVICE
Contact Telephone:	2104235892
Signature Date On Earliest Reg Form:	04/25/1986
Signature Name/Title On Earliest Reg Form:	W R SEWELL,DIV MGR
Application Received Date On Earliest Reg Form:	05/08/1986
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600876320
Owner Last Name:	SOUTHWESTERN ICE INC
Owner Type:	CO
Contact Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Princ ID:	159633572002068
Additional ID:	589417922002138
AI Number:	12684
Owner Effective Begin Date:	04/07/1994
State Tax ID:	18606985226
Contact Name/Title:	/

SOUTHEASTERN PUBLIC SERVICE (Continued) **U003842496**

Tank:

Install Date:	08/31/1987
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	8000
Tank Singlewall:	N
Tank Doublewall:	N
UST ID:	33050
Facility ID:	51906
Ai Number:	12684
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	08/31/1987
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N

SOUTHEASTERN PUBLIC SERVICE (Continued) **U003842496**

Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	06/05/1990

Compartment Records:

Tank ID:	1
Tank Capacity:	8000
UST Comprt ID:	41989
UST ID:	33050
AI Number:	12684
Compartment ID:	A
Substance Stored1:	EMPTY
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N

Install Date:	08/31/1987
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	8000
Tank Singlewall:	N
Tank Doublewall:	N
UST ID:	33049
Facility ID:	51906
Ai Number:	12684
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	08/31/1987
Empty:	N

SOUTHEASTERN PUBLIC SERVICE (Continued) **U003842496**

Tank Regulatory Status:	FULLY REGULATED
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	06/05/1990

Compartment Records:

Tank ID:	2
Tank Capacity:	8000
UST Comprt ID:	41988
UST ID:	33049
AI Number:	12684
Compartment ID:	A
Substance Stored1:	EMPTY
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N

SOUTHEASTERN PUBLIC SERVICE (Continued) **U003842496**

CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N

Facility Billing Contacts:

Contact Organization Name:	SOUTHWESTERN ICE INC
Contact Mailing Address (Delivery):	1409 N 28TH ST
Contact Mailing City/State/Zip:	HARLINGEN, TX 78550 4551
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Address Deliverable:	Y
Facility ID:	51906
Additional ID:	589417922002138
Princ ID:	159633572002068
AI Number:	12684
Facility Name:	SOUTHEASTERN PUBLIC SERVICE
Contact Name/Title:	/

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7 **SOUTHERN UNION GAS CO.** **RDR** **S127527249**
NNE **1001 MARKOWSKY** **N/A**
1/4-1/2 **HARLINGEN, TX**
0.316 mi.
1669 ft.

Relative: **Lower**
Actual: **38 ft.**

RDR:

RDR ID:	2300
Facility ID:	22012
Name:	SOUTHERN UNION GAS CO.
Address:	1001 MARKOWSKY
City,State,Zip:	HARLINGEN, TX

SOUTHERN UNION GAS CO. (Continued) **S127527249**

Date Report Received:	1/1/1901
Due Date:	3/2/1901
Tank Owner:	SOUTHERN UNION GAS
Report:	RDR
Latest TCEQ Letter:	No Leaker
Date of Latest TCEQ Letter:	8/14/1996
Comments:	1001 MARKOWSKY, HARLINGEN
NOLPST Letter Date:	8/14/1996

C8 **CLOSED** **LPST** **U001292962**
North **2115 N 77 SUNSHINESTRIP** **UST** **N/A**
1/4-1/2 **HARLINGEN, TX 78550**
0.445 mi.
2351 ft. **Site 1 of 3 in cluster C**

Relative:
Lower

Actual:
38 ft.

LPST:

Name:	GUNZEL METALS
Address:	2115 N 77 SUNSHINESTRIP
City,State,Zip:	HARLINGEN, TX 78550
Facility ID:	0063510
LPST Id:	104610
Facility Location:	2115 NORTH 77 SUNSHINE STRIP
TCEQ Region# and City:	REGION 15 - HARLINGEN
Region City:	HARLINGEN
Discovered Date:	10/13/1992
Entered Date:	11/16/1992
Reported Date:	10/13/1992
Closure Date:	10/20/1992
Priority:	6 - MINOR SOIL CONTAMINATION - NO REMEDIAL ACTION REQUIRED
Program:	2 - REGION
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	SOIL CONTAMINATION - NO REMEDIAL ACTION REQUIRED
Status:	**FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary:	2
Coordinators RPR:	HELEN WELCH
Responsible Party Contact:	COLLEEN GUNZEL
Responsible Party Address:	210 E HURST
Responsible Party City,St,Zip:	HARLINGEN, TX 78550
Responsible Party Telephone:	512/423-2940
Reported Date:	10/13/1992
Case Start Date:	10/20/1992
Reference Number:	RN101683126
Project Manager:	HWELCH

UST:

Name:	CLOSED
Address:	2115 N 77 SUNSHINESTRIP
City,State,Zip:	HARLINGEN, TX 785504150
AI Number:	63510
Facility Type:	FLEET REFUELING
Facility Begin Date:	01/20/1993
Facility Status:	INACTIVE
Additional ID:	423339522002073
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0

CLOSED (Continued) **U001292962**

Site Location (County Name):	CAMERON
Site Location (Tceq Region):	15
Site Location (Location Zip):	78550
Contact Name/Title:	COLLEEN GUNZEL,
Contact Organization Name:	CLOSED
Contact Telephone:	5124232940
Signature Date On Earliest Reg Form:	08/18/1992
Signature Name/Title On Earliest Reg Form:	COLLEEN GUENZEL,
Application Received Date On Earliest Reg Form:	08/25/1992
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600909725
Owner Last Name:	GUENZEL COLLEEN
Owner Type:	OR
Contact Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Princ ID:	433339522002073
Additional ID:	423339522002073
AI Number:	63510
Owner Effective Begin Date:	01/20/1993
Contact Name/Title:	/

Tank:

Install Date:	08/31/1987
Tank Registration Date:	08/25/1992
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	Y
Tank Doublewall:	N
UST ID:	146570
Facility ID:	94453
Ai Number:	63510
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	09/16/1992
Empty:	Y
Tank Regulatory Status:	FULLY REGULATED
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N

CLOSED (Continued) **U001292962**

PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	07/08/1992

Compartment Records:

Tank ID:	1
Tank Capacity:	2000
UST Comprt ID:	151579
UST ID:	146570
AI Number:	63510
Compartment ID:	A
Substance Stored1:	EMPTY
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N

CLOSED (Continued) **U001292962**

SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N

Facility Billing Contacts:

Contact Organization Name:	GUENZEL COLLEEN
Contact Mailing Address (Delivery):	210 E HURST ST
Contact Mailing City/State/Zip:	HARLINGEN, TX 78550 3833
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Address Deliverable:	Y
Facility ID:	94453
Additional ID:	423339522002073
Princ ID:	433339522002073
AI Number:	63510
Facility Name:	CLOSED
Contact Name/Title:	COLLEEN GUENZEL/

C9 **GUENZEL METAL PRODUCTS** **SEMS-ARCHIVE** **1003875883**
North **2115 N 77 SUNSHINE STRIP** **TX0000032607**
1/4-1/2 **HARLINGEN, TX 78550**
0.445 mi.
2351 ft. **Site 2 of 3 in cluster C**

Relative: **Lower**

Actual: **38 ft.**

SEMS Archive:

Site ID:	0604767
EPA ID:	TX0000032607
Name:	GUENZEL METAL PRODUCTS
Address:	2115 N 77 SUNSHINE STRIP
City,State,Zip:	HARLINGEN, TX 78550
Cong District:	27
FIPS Code:	48061
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	06
Site ID:	0604767
EPA ID:	TX0000032607
Site Name:	GUENZEL METAL PRODUCTS
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Finish Date:	1994-03-18 05:00:00
Current Action Lead:	EPA Perf In-Hse

Region:	06

GUENZEL METAL PRODUCTS (Continued) **1003875883**

Site ID:	0604767
EPA ID:	TX0000032607
Site Name:	GUENZEL METAL PRODUCTS
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1994-03-18 05:00:00
Finish Date:	1994-03-18 05:00:00
Qual:	N
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0604767
EPA ID:	TX0000032607
Site Name:	GUENZEL METAL PRODUCTS
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1994-03-18 05:00:00
Finish Date:	1994-03-18 05:00:00
Current Action Lead:	St Perf

C10 **MION TERAZZO TILE & MARBLE** **LPST** **U001440742**
North **2045 N 77 SUNSHINESTRIP** **UST** **N/A**
1/4-1/2 **HARLINGEN, TX 78550** **GCC**
0.478 mi.
2524 ft. **Site 3 of 3 in cluster C**

Relative: **Lower**
Actual: **37 ft.**

LPST:

Name:	MION TERRAZZO TILE MARBLE
Address:	2045 N 77 SUNSHINESTRIP
City,State,Zip:	HARLINGEN, TX 78550
Facility ID:	0064475
LPST Id:	106525
Facility Location:	2045 N 77 SUNSHINE STRIP
TCEQ Region# and City:	REGION 15 - HARLINGEN
Region City:	HARLINGEN
Discovered Date:	04/22/1993
Entered Date:	05/26/1993
Reported Date:	04/22/1993
Closure Date:	05/03/2010
Priority:	3.3 - GW IMPACT NON-PUBLIC/NON-DOMESTIC H2O SUPPLY WELL W/IN.25mi
Program:	1 - RPR
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	Groundwater is affected and a non-public or nondomestic water supply well is located within 0.25 miles of the UST/AST system or source area.
Status:	**FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary:	1
Coordinators RPR:	MAO
Responsible Party Contact:	EMILIO ROVEDO

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

Responsible Party Address:	2045 N 77 SUNSHINE STRIP
Responsible Party City,St,Zip:	HARLINGEN, TX 78550 4126
Responsible Party Telephone:	956/423-6207
Reported Date:	04/22/1993
Case Start Date:	05/03/2010
Reference Number:	RN101680130
Project Manager:	MOGEE

UST:

Name:	MION TERAZZO TILE & MARBLE
Address:	2045 N 77 SUNSHINESTRIP
City,State,Zip:	HARLINGEN, TX 785504126
AI Number:	64475
Facility Type:	FLEET REFUELING
Facility Begin Date:	04/21/1993
Facility Status:	INACTIVE
Additional ID:	49290352002073
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location (County Name):	CAMERON
Site Location (Tceq Region):	15
Site Location (Location Zip):	78550
Contact Name/Title:	EMILIO ROVEDO,
Contact Organization Name:	MION TERAZZO TILE & MARBLE
Contact Telephone:	2104236207
Signature Date On Earliest Reg Form:	04/15/1993
Signature Name/Title On Earliest Reg Form:	EMILIO ROVEDO,VICE PRESIDENT
Application Received Date On Earliest Reg Form:	04/20/1993
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600907919
Owner Last Name:	MION TERRAZZO TILE & MARBLE CO
Owner Type:	OR
Contact Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Princ ID:	58290342002073
Additional ID:	49290352002073
AI Number:	64475
Owner Effective Begin Date:	04/21/1993
State Tax ID:	17412894523
Contact Name/Title:	/

Tank:

Install Date:	08/31/1987
Tank Registration Date:	04/20/1993
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	Y
Tank Doublewall:	N
UST ID:	148138
Facility ID:	95701
Ai Number:	64475
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

Tank Status Date:	04/15/1993
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	04/15/1993

Compartment Records:

Tank ID:	1
Tank Capacity:	1000
UST Comprt ID:	164048
UST ID:	148138
AI Number:	64475
Compartment ID:	A
Substance Stored1:	GASOLINE

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N

More Self Certification:

Self Cert ID:	25048
Cert ID:	12953
UST Comprt ID:	36284
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12952
UST Comprt ID:	36285
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12951
UST Comprt ID:	36286
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

Cert ID:	12950
UST Comprt ID:	36287
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	228933
UST Comprt ID:	657019
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12958
UST Comprt ID:	36279
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12949
UST Comprt ID:	36288
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12948
UST Comprt ID:	36291
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12715
UST Comprt ID:	36290
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12714
UST Comprt ID:	36289
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	375252

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

UST Comprt ID:	1093414
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	344212
UST Comprt ID:	1000066
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	331847
UST Comprt ID:	962136
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	313198
UST Comprt ID:	906463
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	298001
UST Comprt ID:	860927
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	279896
UST Comprt ID:	807165
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	262107
UST Comprt ID:	754745
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	244857
UST Comprt ID:	703731

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12957
UST Comprt ID:	36280
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12956
UST Comprt ID:	36281
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12955
UST Comprt ID:	36282
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	12954
UST Comprt ID:	36283
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A
Self Cert ID:	25048
Cert ID:	359128
UST Comprt ID:	1044742
UST ID:	11797
AI Number:	64475
Tank ID:	3
Compartment ID:	A

Contractor, Consultant and Installer:

Cont/Cons/Installer ID:	31747
UST ID:	148138
AI Number:	64475
Type Of Contact:	CONTRACTOR
Contractor CRP Number Or Installer ILP Number:	CRP000191
Company Name:	UNIVERSAL PUMP SERVICE INC
Cont/Cons/Installer ID:	46921
UST ID:	148138
AI Number:	64475

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

Type Of Contact: INSTALLER
Contractor CRP Number Or Installer ILP Number: ILP000306
Representative Name: CHARLES POOL

Facility Billing Contacts:
Contact Organization Name: MION TERRAZZO & MARBLE CO
Contact Mailing Address (Delivery): 2045 N 77 SUNSHINESTRIP
Contact Mailing City/State/Zip: HARLINGEN, TX 78550 4126
Phone Number/Ext: /
Contact Fax Number/Ext: /
Contact Address Deliverable: Y
Facility ID: 95701
Additional ID: 49290352002073
Princ ID: 58290342002073
AI Number: 64475
Facility Name: MION TERAZZO TILE & MARBLE
Contact Name/Title: EMILIO ROVEDO/

GCC:
Name: MION TERRAZZO TILE & MARBLE CO
Address: 2045 N 77 SUNSHINE STRIP
City,State,Zip: HARLINGEN, TX
Division: RMD/PST
File Number: 106525
Contamination Description: GASOLINE
Date Of Earliest Known Contamination Confirmation: 5/26/1993
Enforcement Status - Level Of Agency Response: 2 - Staff Action
Enforcement Status - Site Activity Status: 6 -
Data Quality 1: E,Q
Type: GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Name: MION TERRAZZO TILE & MARBLE CO
Address: 2045 N 77 SUNSHINE STRIP
City,State,Zip: HARLINGEN, TX
Division: RMD/PST
File Number: 106525
Contamination Description: GASOLINE
Date Of Earliest Known Contamination Confirmation: 5/26/1993
Enforcement Status - Level Of Agency Response: 2A - Staff Action - an information request of the entity
Enforcement Status - Site Activity Status: 2A -
Data Quality 1: E,Q
Type: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Name: MION TERRAZZO TILE & MARBLE CO
Address: 2045 N 77 SUNSHINE STRIP
City,State,Zip: HARLINGEN, TX
Division: RMD/PST
File Number: 106525
Contamination Description: GASOLINE
Date Of Earliest Known Contamination Confirmation: 5/26/1993
Enforcement Status - Level Of Agency Response: 2A - Staff Action - an information request of the entity
Enforcement Status - Site Activity Status: 2A -
Data Quality 1: E,Q
Type: GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION

MION TERAZZO TILE & MARBLE (Continued) **U001440742**

ON ENVIRONMENTAL QUALITY

Name:	MION TERRAZZO TILE & MARBLE CO
Address:	2045 N 77 SUNSHINE STRIP
City,State,Zip:	HARLINGEN, TX
Division:	RMD/PST
File Number:	106525
Contamination Description:	GASOLINE
Date Of Earliest Known Contamination Confirmation:	5/26/1993
Enforcement Status - Level Of Agency Response:	2 - Staff Action
Enforcement Status - Site Activity Status:	6 -
Data Quality 1:	E,Q
Type:	GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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11 **NIAGARA CHEMICAL** **DEL SHWS** **S104547116**
SSE **N/A**
1/2-1 **HARLINGEN, TX**
0.818 mi.
4321 ft.

Relative: **Lower**

Actual: **37 ft.**

DEL SHWS:

Name:	NIAGARA CHEMICAL
City,State,Zip:	HARLINGEN, TX
Category:	Deleted from registry
Facility Type:	Pesticide formulation
Facility Status:	Cleanup is complete. The site needs no additional state Superfund environmental response actions.
Lat/Long:	26.196256 / -97.701806
Media Affected:	Groundwater, soil
TECQ Region:	Harlingen - 15
Funded By:	Potentially responsible parties
Site Notes:	Cleanup of this former pesticide plant in Harlingen, Cameron County is complete. Releases at the site contaminated the groundwater and soil at the site with arsenic, lead and pesticides.
Contact Type:	Superfund Project Manager
Contact Name:	Scott Settemeyer
Contact Phone:	512-239-3429 or 1-800-633-9363
Contact Email:	superfnd@tceq.texas.gov
Site Background:	The Niagara Chemical site occupies 2 acres west of the intersection of Commerce Street and Adams Avenue near downtown Harlingen. Liquid and dry pesticides were formulated at the plant from 1946 to 1962, and pesticide blending and storage continued until 1968. The plant was shut down and the buildings were razed in 1970, leaving only concrete slab foundations on the site. Three 10,000-gallon underground storage tanks were removed before the TCEQ began remedial investigations.
Superfund Actions:	On January 16, 1987, the Niagara Chemicals site became one of ten listed on the state Superfund registry. In 1987, the TCEQ entered into an agreed order with potentially responsible parties (PRPs) to conduct the remedial investigation and feasibility study. During the remedial investigation, soil and groundwater at the site were found to be contaminated with arsenic and organochlorine pesticides at concentrations requiring remedial action.

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
TX	AIRS	Current Emission Inventory Data	Texas Commission on Environmental Quality	03/09/2023	03/15/2023	05/31/2023
TX	APAR	Affected Property Assessment Report Site Listing	Texas Commission on Environmental Quality	04/03/2023	04/06/2023	06/21/2023
TX	AQUEOUS FOAM	AFFF Sites Listing	Texas Commission on Environmental Quality	03/06/2023	03/15/2023	06/05/2023
TX	ASBESTOS	Asbestos Notification Listing	Department of State Health Services	05/10/2023	05/30/2023	08/21/2023
TX	AST	Petroleum Storage Tank Database	Texas Commission on Environmental Quality	03/02/2023	03/22/2023	06/07/2023
TX	AUL	Sites with Controls	Texas Commission on Environmental Quality	04/06/2023	04/06/2023	06/21/2023
TX	BROWNFIELDS	Brownfields Site Assessments	TCEQ	03/27/2023	03/29/2023	04/03/2023
TX	CAPCOG LI	Capitol Area Landfill Inventory	Capital Area Council of Governments	11/11/2022	05/23/2023	06/05/2023
TX	CDL	Clandestine Drug Site Locations Listing	Department of Public Safety	09/07/2021	12/09/2021	03/01/2022
TX	CENTRAL REGISTRY	The Central Registry	Texas Commission on Environmental Quality	09/30/2022	10/04/2022	12/27/2022
TX	CLI	Closed Landfill Inventory	Texas Commission on Environmental Quality	08/30/1999	09/28/2000	10/30/2000
TX	COAL ASH	Coal Ash Disposal Sites	Texas Commission on Environmental Quality	04/25/2023	04/26/2023	07/17/2023
TX	COMP HIST	Compliance History Listing	Txas Commission on Environmental Quality	11/21/2022	11/22/2022	02/14/2023
TX	DEBRIS	Approved Debris Management Sites Locations	Texas Commission on Environmental Quality	03/27/2018	04/04/2018	06/08/2018
TX	DEL SHWS	Deleted Superfund Registry Sites	Texas Commission on Environmental Quality	03/23/2023	03/29/2023	06/20/2023
TX	DRYCLEANERS	Drycleaner Registration Database Listing	Texas Commission on Environmental Quality	03/02/2023	05/24/2023	08/18/2023
TX	ED AQUIF	Edwards Aquifer Permits	Texas Commission on Environmental Quality, Au	03/31/2023	03/31/2023	04/03/2023
TX	ENFORCEMENT	Notice of Violations Listing	Texas Commission on Environmental Quality	03/17/2023	03/29/2023	06/23/2023
TX	Financial Assurance 1	Financial Assurance Information Listing	Texas Commission on Environmental Quality	03/21/2023	03/23/2023	04/03/2023
TX	Financial Assurance 2	Financial Assurance Information Listing	Texas Commission on Environmental Quality	03/02/2023	03/22/2023	06/07/2023
TX	GCC	Groundwater Contamination Cases	Texas Commission on Environmental Quality	12/31/2021	08/29/2022	11/16/2022
TX	H-GAC CLI	Houston-Galveston Closed Landfill Inventory	Houston-Galveston Area Council	03/27/2023	03/29/2023	06/13/2023
TX	HIST LF	Historical Information About Municipal Solid Waste Facilitie	Texas Commission on Environmental Quality	02/01/2022	09/28/2022	05/24/2023
TX	HIST LIENS	Environmental Liens Listing	Texas Commission on Environmental Qualilty	03/23/2007	03/23/2007	05/02/2007
TX	IHW CORR ACTION	Industrial and Hazardous Waste Corrective Action Information	Texas Commission on Environmental Quality	03/24/2023	03/29/2023	04/04/2023
TX	IOP	Innocent Owner/Operator Program	Texas Commission on Environmental Quality	03/24/2023	03/29/2023	04/03/2023
TX	Ind. Haz Waste	Industrial & Hazardous Waste Database	Texas Commission on Environmental Quality	03/14/2023	04/12/2023	07/11/2023
TX	LEAD	Lead Inspection Listing	Department of State Health Services	11/28/2022	11/30/2022	02/13/2023
TX	LIENS	Environmental Liens Listing	Texas Commission on Environmental Quality	03/27/2023	03/29/2023	04/03/2023
TX	LPST	Leaking Petroleum Storage Tank Database	Texas Commission on Environmental Quality	03/28/2023	03/29/2023	04/04/2023
TX	MSD	Municipal Settings Designations Database	Texas Commission on Environmental Quality	05/11/2023	05/11/2023	05/15/2023
TX	NCTCOG LI	North Central Landfill Inventory	North Central Texas Council of Governments	03/27/2023	03/29/2023	06/14/2023
TX	NON REGIST PST	Petroleum Storage Tank Non Registered	Texas Commission on Environmental Quality	03/31/2023	04/04/2023	06/22/2023
TX	NPDES	NPDES Facility List	Texas Commission on Environmental Quality	08/02/2023	08/02/2023	08/03/2023
TX	PFAS	PFAS Contamination Site Location Listing	Texas Commission on Environmental Quality	03/01/2023	03/08/2023	05/31/2023
TX	PRIORITY CLEANERS	Dry Cleaner Remediation Program Prioritization List	Texas Commisision on Environmenatl Quality	03/01/2023	05/30/2023	08/18/2023
TX	PST STAGE 2	PST Stage 2	Texas Commission on Environmental Quality	07/17/2019	07/18/2019	09/24/2019
TX	RDR	Release Determination Report Listing	Texas Commission on Environmental Quality	03/29/2023	03/30/2023	04/04/2023
TX	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Texas Commission on Environmental Quality		07/01/2013	12/26/2013
TX	RGA LF	Recovered Government Archive Solid Waste Facilities List	Texas Commission on Environmental Quality		07/01/2013	01/13/2014
TX	RWS	Radioactive Waste Sites	Texas Commission on Environmental Quality	07/24/2006	12/14/2006	01/23/2007
TX	SHWS	State Superfund Registry	Texas Commission on Environmental Quality	03/23/2023	03/29/2023	06/20/2023
TX	SPILLS	Spills Database	Texas Commission on Environmental Quality	04/10/2023	04/12/2023	06/29/2023
TX	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	05/15/2005	01/03/2013	03/07/2013
TX	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	10/23/2012	01/03/2013	03/07/2013
TX	SWF/LF	Permitted Solid Waste Facilities	Texas Commission on Environmental Quality	04/19/2023	04/20/2023	07/12/2023
TX	SWRCY	Recycling Facility Listing	TCEQ	05/08/2023	05/10/2023	08/03/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
TX	TANKS	Petroleum Storage Tanks Listing	Texas Commission on Environmental Quality	03/02/2023	03/22/2023	06/07/2023
TX	TIER 2	Tier 2 Chemical Inventory Reports	Department of State Health Services	12/31/2012	06/07/2013	07/22/2013
TX	UIC	Underground Injection Wells Database Listing	Texas Commission on Environmental Quality	08/09/2022	08/10/2022	11/01/2022
TX	UST	Petroleum Storage Tank Database	Texas Commission on Environmental Quality	03/02/2023	03/22/2023	06/07/2023
TX	VCP RRC	Voluntary Cleanup Program Sites	Railroad Commission of Texas	04/01/2023	04/12/2023	06/29/2023
TX	VCP TCEQ	Voluntary Cleanup Program Database	Texas Commission on Environmental Quality	06/23/2023	06/27/2023	07/11/2023
TX	WASTE MGMT	Commercial Hazardous & Solid Waste Management Facilities	Texas Commission on Environmental Quality	10/16/2019	01/10/2020	03/18/2020
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	06/13/2023	06/14/2023	08/14/2023
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	04/27/2023	04/27/2023	05/02/2023
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2021	04/14/2023	07/10/2023
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	03/31/2023	04/20/2023	07/10/2023
US	CORRACTS	Corrective Action Report	EPA	07/24/2023	07/31/2023	08/14/2023
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	06/22/2023	07/06/2023	07/24/2023
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	03/25/2023	03/31/2023	06/09/2023
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	06/12/2023	06/20/2023	08/14/2023
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	03/26/2023	03/28/2023	05/30/2023
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	03/08/2023	03/09/2023	05/30/2023
US	FINDS	Facility Index System/Facility Registry System	EPA	05/04/2023	05/25/2023	07/24/2023
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	05/08/2023	05/16/2023	07/10/2023
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	05/15/2023	05/17/2023	07/10/2023
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	03/03/2023	03/03/2023	06/09/2023
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/19/2023	03/21/2023	05/30/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/19/2023	05/09/2023	07/14/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/19/2023	05/09/2023	07/14/2023
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/19/2023	05/09/2023	07/14/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	06/22/2023	07/06/2023	07/24/2023
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	06/22/2023	07/06/2023	07/24/2023
US	LUCIS	Land Use Control Information System	Department of the Navy	05/25/2023	05/31/2023	07/24/2023
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	04/03/2023	04/04/2023	06/09/2023
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	03/15/2023	03/21/2023	05/30/2023
US	NPL	National Priority List	EPA	06/22/2023	07/06/2023	07/24/2023
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	03/20/2023	04/04/2023	06/09/2023
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	06/07/2023	06/08/2023	06/09/2023
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	03/30/2023	03/30/2023	05/02/2023
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	06/07/2023	06/08/2023	06/09/2023
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	03/30/2023	03/30/2023	06/09/2023
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	03/30/2023	03/30/2023	05/02/2023
US	PRP	Potentially Responsible Parties	EPA	06/22/2023	07/06/2023	07/24/2023
US	Proposed NPL	Proposed National Priority List Sites	EPA	06/22/2023	07/06/2023	07/24/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	07/24/2023	07/31/2023	08/14/2023
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	07/24/2023	07/31/2023	08/14/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	07/24/2023	07/31/2023	08/14/2023
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	07/24/2023	07/31/2023	08/14/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	07/24/2023	07/31/2023	08/14/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	ROD	Records Of Decision	EPA	06/22/2023	07/06/2023	07/24/2023
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	SEMS	Superfund Enterprise Management System	EPA	06/22/2023	07/06/2023	07/24/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	06/22/2023	07/06/2023	07/24/2023
US	SSTS	Section 7 Tracking Systems	EPA	04/17/2023	04/18/2023	07/10/2023
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	02/16/2023	05/02/2023
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	04/06/2023	04/13/2023	04/19/2023
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/22/2023	05/23/2023	07/10/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	05/22/2023	05/23/2023	07/24/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	06/19/2023	06/20/2023	08/14/2023
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/22/2023	05/23/2023	07/10/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	05/22/2023	05/23/2023	07/24/2023
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	05/01/2023	05/24/2023	07/24/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	01/07/2022	02/24/2023	05/17/2023
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	11/16/2022	11/16/2022	02/06/2023
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	10/29/2021	01/19/2022
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2020	11/30/2021	02/18/2022
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	10/28/2019	10/29/2019	01/09/2020
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
TX	Daycare Centers	Sensitive Receptor: Child Care Facility List	Department of Protective & Regulatory Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
TX	State Wetlands	Wetland Inventory	Texas General Land Office			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HARLINGEN UNDEVELOPED LAND
1335 WEST MEMPHIS STREET
HARLINGEN, TX 78550

TARGET PROPERTY COORDINATES

Latitude (North):	26.206143 - 26˚ 12’ 22.11’’
Longitude (West):	97.708447 - 97˚ 42’ 30.41’’
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	629038.2
UTM Y (Meters):	2898992.0
Elevation:	40 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12686427 HARLINGEN, TX
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

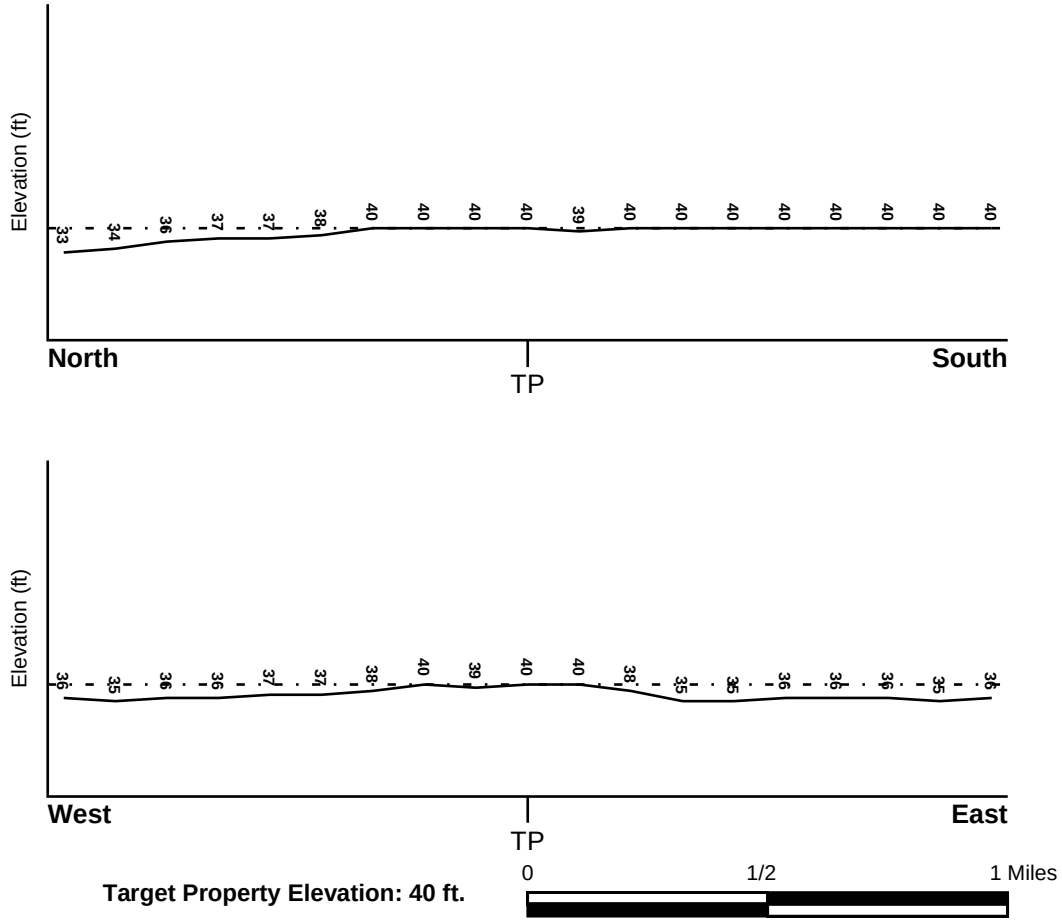
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
4854770005B	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
4801010150B	FEMA Q3 Flood data
4854770015B	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HARLINGEN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

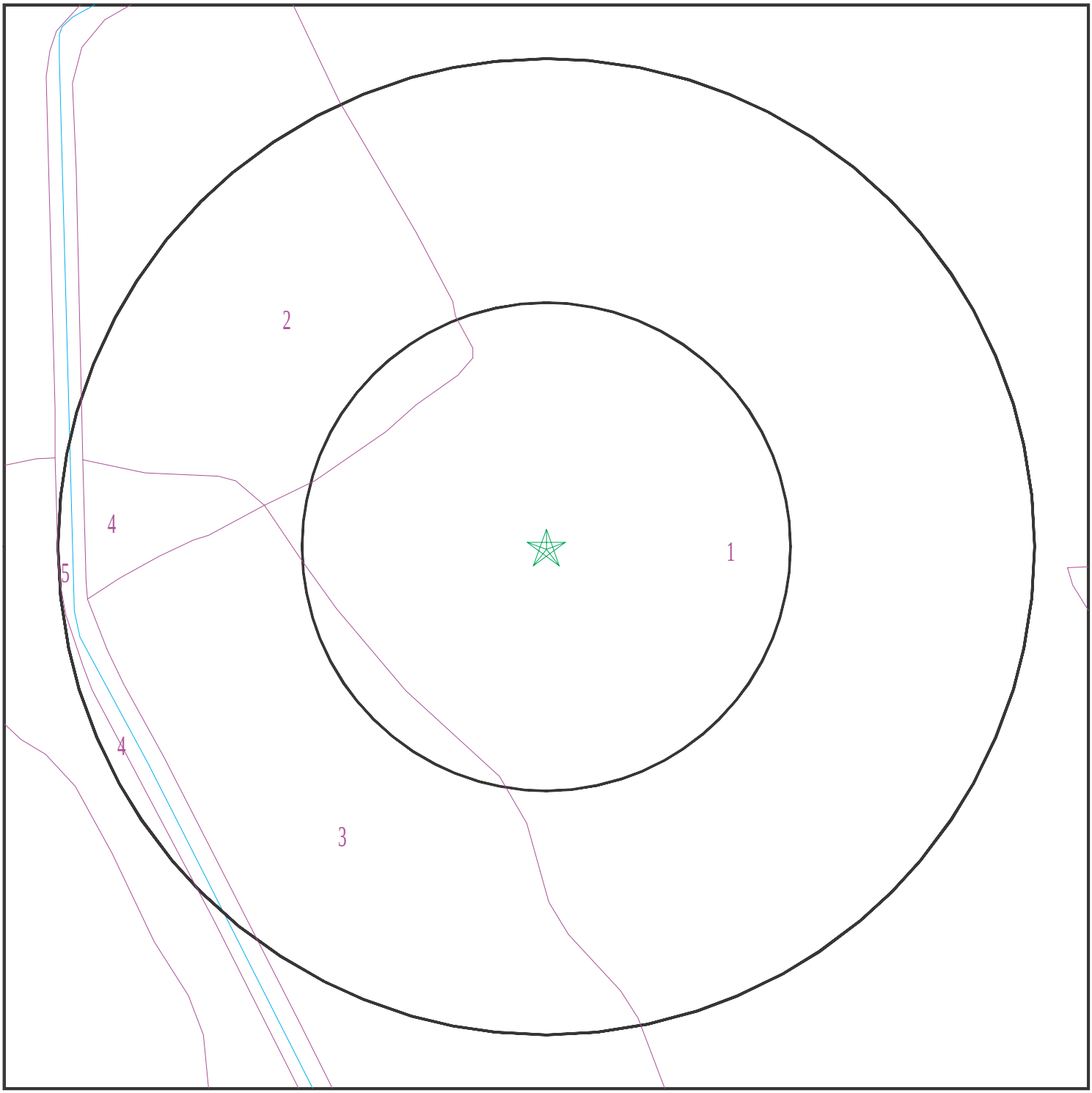
Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7427688.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Harlingen Undeveloped Land	CLIENT:	Terracon Consulting
ADDRESS:	1335 West Memphis Street	CONTACT:	Joe Garcia
	Harlingen TX 78550	INQUIRY #:	7427688.2s
LAT/LONG:	26.206143 / 97.708447	DATE:	August 28, 2023 12:13 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Raymondville

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	14 inches	37 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
3	37 inches	77 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Raymondville

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	14 inches	37 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
3	37 inches	77 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: Hidalgo

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	11 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	22 inches	62 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: Hidalgo

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	11 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	22 inches	62 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 5

Soil Component Name: Water

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	TXMON6000205257	1/4 - 1/2 Mile North
A2	TXPLU6000023365	1/4 - 1/2 Mile North
A3	TXPLU6000023376	1/4 - 1/2 Mile North
A4	TXPLU6000023371	1/4 - 1/2 Mile North
A5	TXPLU6000023375	1/4 - 1/2 Mile North
A6	TXPLU6000023369	1/4 - 1/2 Mile North
A7	TXPLU6000023367	1/4 - 1/2 Mile North
A8	TXPLU6000023368	1/2 - 1 Mile North
A9	TXPLU6000023370	1/2 - 1 Mile North
A10	TXPLU6000023366	1/2 - 1 Mile North
B11	TXPLU6000151907	1/2 - 1 Mile SE
B12	TXPLU6000151909	1/2 - 1 Mile SE
B13	TXPLU6000151910	1/2 - 1 Mile SE
B14	TXMON6000404851	1/2 - 1 Mile SE
B15	TXMON6000404847	1/2 - 1 Mile SE
B16	TXMON6000404842	1/2 - 1 Mile SE
B17	TXMON6000458318	1/2 - 1 Mile SE
B18	TXMON6000458316	1/2 - 1 Mile SE
B19	TXMON6000458317	1/2 - 1 Mile SE
B20	TXPLU6000176773	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B21	TXPLU6000176770	1/2 - 1 Mile SE
B22	TXPLU6000176775	1/2 - 1 Mile SE
C23	TXMON6000534331	1/2 - 1 Mile NNW
C24	TXMON6000534678	1/2 - 1 Mile NNW
C25	TXMON6000456696	1/2 - 1 Mile NNW
C26	TXMON6000456701	1/2 - 1 Mile NNW
C27	TXMON6000534329	1/2 - 1 Mile NNW
D28	TXMON6000098586	1/2 - 1 Mile ENE
D29	TXDOL2000023365	1/2 - 1 Mile ENE
C30	TXMON6000456697	1/2 - 1 Mile NNW
C31	TXPLU6000171229	1/2 - 1 Mile NNW
C32	TXMON6000456702	1/2 - 1 Mile NNW
C33	TXMON6000456700	1/2 - 1 Mile NNW
C34	TXPLU6000171230	1/2 - 1 Mile NNW
D35	TXMON6000098574	1/2 - 1 Mile ENE
D36	TXPLU6000042520	1/2 - 1 Mile ENE
D37	TXDOL2000023369	1/2 - 1 Mile ENE
C38	TXMON6000456704	1/2 - 1 Mile NW
D39	TXMON6000098583	1/2 - 1 Mile ENE
D40	TXPLU6000042522	1/2 - 1 Mile ENE
D41	TXDOL2000023366	1/2 - 1 Mile ENE
D42	TXPLU6000042511	1/2 - 1 Mile ENE
D43	TXDOL2000023387	1/2 - 1 Mile ENE
D44	TXDOL2000023388	1/2 - 1 Mile ENE
D45	TXDOL2000023385	1/2 - 1 Mile ENE
D46	TXDOL2000023386	1/2 - 1 Mile ENE
D47	TXDOL2000023409	1/2 - 1 Mile ENE
D48	TXDOL2000023439	1/2 - 1 Mile ENE
D49	TXDOL2000023408	1/2 - 1 Mile ENE
D50	TXDOL2000023389	1/2 - 1 Mile ENE
D51	TXDOL2000023390	1/2 - 1 Mile ENE
D52	TXDOL2000023384	1/2 - 1 Mile ENE
D53	TXDOL2000023383	1/2 - 1 Mile ENE
D54	TXMON6000079406	1/2 - 1 Mile ENE
D55	TXMON6000087123	1/2 - 1 Mile ENE
D56	TXMON6000087122	1/2 - 1 Mile ENE
D57	TXMON6000087124	1/2 - 1 Mile ENE
D58	TXMON6000079424	1/2 - 1 Mile ENE
D59	TXMON6000079414	1/2 - 1 Mile ENE
D60	TXMON6000087117	1/2 - 1 Mile ENE
D61	TXMON6000087119	1/2 - 1 Mile ENE
D62	TXMON6000087118	1/2 - 1 Mile ENE
D63	TXMON6000087121	1/2 - 1 Mile ENE
D64	TXMON6000087125	1/2 - 1 Mile ENE
D65	TXPLU6000042514	1/2 - 1 Mile ENE
D66	TXPLU6000042517	1/2 - 1 Mile ENE
D67	TXPLU6000042504	1/2 - 1 Mile ENE
D68	TXPLU6000042512	1/2 - 1 Mile ENE
D69	TXPLU6000042513	1/2 - 1 Mile ENE
D70	TXPLU6000042519	1/2 - 1 Mile ENE
D71	TXPLU6000042518	1/2 - 1 Mile ENE
D72	TXPLU6000077595	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

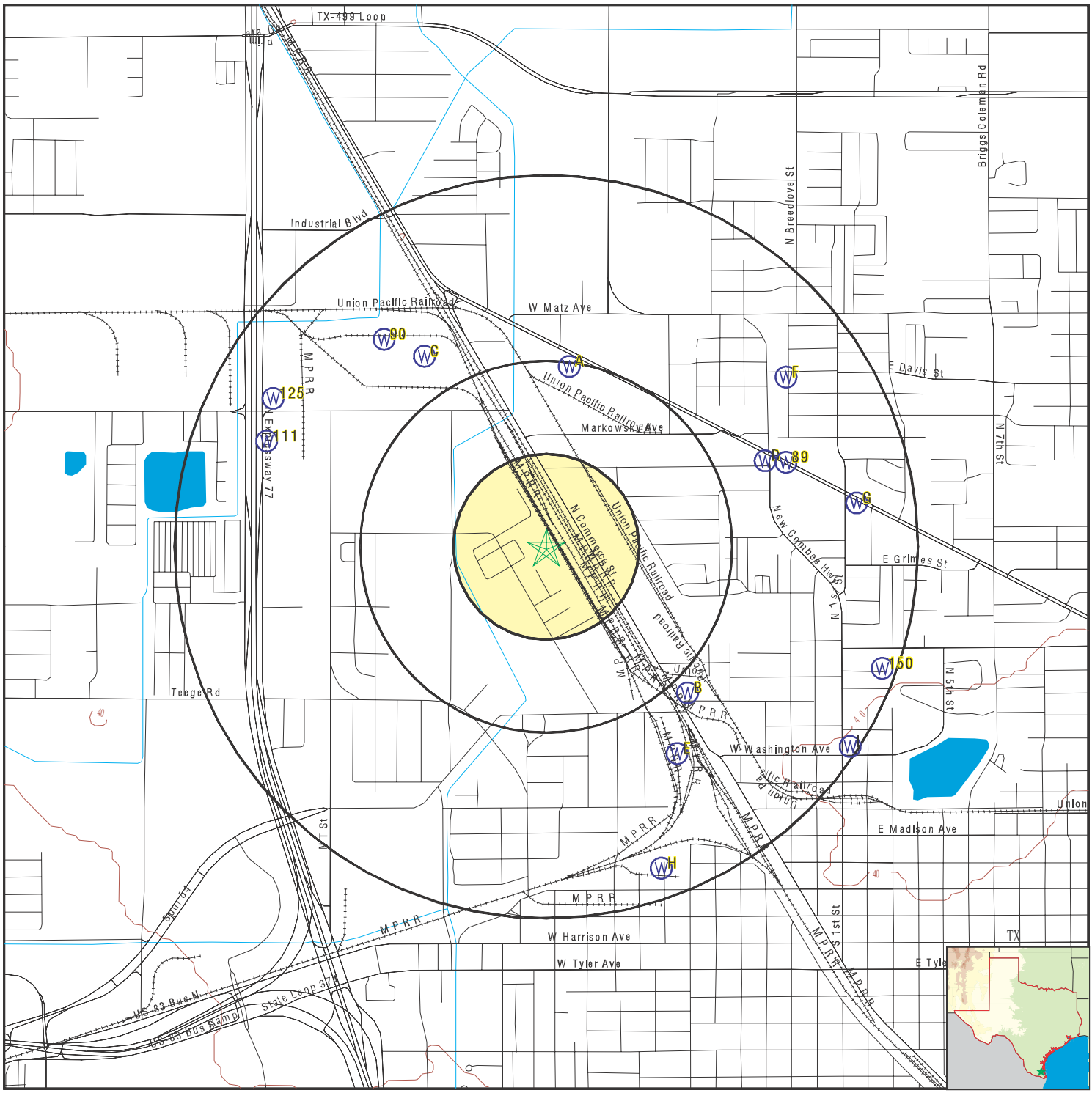
MAP ID	WELL ID	LOCATION FROM TP
D73	TXPLU6000042503	1/2 - 1 Mile ENE
C74	TXMON6000567350	1/2 - 1 Mile NW
C75	TXMON6000567351	1/2 - 1 Mile NW
C76	TXMON6000567347	1/2 - 1 Mile NW
D77	TXDOL2000023368	1/2 - 1 Mile ENE
D78	TXMON6000098576	1/2 - 1 Mile ENE
D79	TXPLU6000042515	1/2 - 1 Mile ENE
D80	TXDOL2000023367	1/2 - 1 Mile ENE
D81	TXMON6000098579	1/2 - 1 Mile ENE
E82	TXPLU6000033327	1/2 - 1 Mile SSE
E83	TXPLU6000033326	1/2 - 1 Mile SSE
E84	TXPLU6000033325	1/2 - 1 Mile SSE
E85	TXPLU6000033334	1/2 - 1 Mile SSE
E86	TXPLU6000033333	1/2 - 1 Mile SSE
E87	TXPLU6000033328	1/2 - 1 Mile SSE
E88	TXPLU6000033321	1/2 - 1 Mile SSE
89	TXMON6000080791	1/2 - 1 Mile ENE
90	TXMON6000456705	1/2 - 1 Mile NW
F91	TXPLU6000023194	1/2 - 1 Mile NE
F92	TXPLU6000023195	1/2 - 1 Mile NE
F93	TXPLU6000023192	1/2 - 1 Mile NE
F94	TXPLU6000023193	1/2 - 1 Mile NE
F95	TXPLU6000023198	1/2 - 1 Mile NE
F96	TXPLU6000023201	1/2 - 1 Mile NE
F97	TXPLU6000023202	1/2 - 1 Mile NE
F98	TXPLU6000023199	1/2 - 1 Mile NE
F99	TXPLU6000023200	1/2 - 1 Mile NE
F100	TXPLU6000023184	1/2 - 1 Mile NE
F101	TXPLU6000023185	1/2 - 1 Mile NE
F102	TXPLU6000023183	1/2 - 1 Mile NE
F103	TXPLU6000023176	1/2 - 1 Mile NE
F104	TXPLU6000023179	1/2 - 1 Mile NE
F105	TXPLU6000023186	1/2 - 1 Mile NE
F106	TXPLU6000023190	1/2 - 1 Mile NE
F107	TXPLU6000023191	1/2 - 1 Mile NE
F108	TXPLU6000023189	1/2 - 1 Mile NE
F109	TXPLU6000023187	1/2 - 1 Mile NE
F110	TXPLU6000023188	1/2 - 1 Mile NE
111	TXMON6000241652	1/2 - 1 Mile WNW
G112	TXMON6000169930	1/2 - 1 Mile East
G113	TXMON6000169929	1/2 - 1 Mile East
G114	TXMON6000169928	1/2 - 1 Mile East
G115	TXPLU6000121655	1/2 - 1 Mile East
G116	TXPLU6000121656	1/2 - 1 Mile East
G117	TXPLU6000121657	1/2 - 1 Mile East
G118	TXDOL2000023002	1/2 - 1 Mile East
G119	TXDOL2000023001	1/2 - 1 Mile East
G120	TXDOL2000023003	1/2 - 1 Mile East
G121	TXPLU6000173058	1/2 - 1 Mile ENE
G122	TXMON6000462338	1/2 - 1 Mile ENE
G123	TXMON6000462347	1/2 - 1 Mile East
G124	TXPLU6000173060	1/2 - 1 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
125	TXMON6000241659	1/2 - 1 Mile WNW
G126	TXMON6000462349	1/2 - 1 Mile East
G127	TXPLU6000173063	1/2 - 1 Mile East
G128	TXPLU6000173066	1/2 - 1 Mile East
G129	TXMON6000462353	1/2 - 1 Mile East
G130	TXPLU6000072602	1/2 - 1 Mile East
G131	TXPLU6000072601	1/2 - 1 Mile East
G132	TXPLU6000072600	1/2 - 1 Mile East
G133	TXPLU6000073446	1/2 - 1 Mile East
G134	TXPLU6000072603	1/2 - 1 Mile East
G135	TXPLU6000072604	1/2 - 1 Mile East
G136	TXPLU6000073445	1/2 - 1 Mile East
G137	TXPLU6000072599	1/2 - 1 Mile East
G138	TXPLU6000072594	1/2 - 1 Mile East
G139	TXPLU6000072593	1/2 - 1 Mile East
G140	TXPLU6000072590	1/2 - 1 Mile East
G141	TXPLU6000072595	1/2 - 1 Mile East
G142	TXPLU6000072598	1/2 - 1 Mile East
G143	TXPLU6000072597	1/2 - 1 Mile East
G144	TXPLU6000072596	1/2 - 1 Mile East
H145	TXPLU6000176474	1/2 - 1 Mile SSE
H146	TXMON6000473498	1/2 - 1 Mile SSE
H147	TXMON6000473502	1/2 - 1 Mile SSE
H148	TXMON6000473495	1/2 - 1 Mile SSE
H149	TXMON6000473497	1/2 - 1 Mile SSE
150	TXMON6000244795	1/2 - 1 Mile ESE
I151	TXMON6000388485	1/2 - 1 Mile ESE
I152	TXMON6000388484	1/2 - 1 Mile ESE
I153	TXPLU6000148179	1/2 - 1 Mile ESE
I154	TXPLU6000148180	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 7427688.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil or gas wells

SITE NAME:	Harlingen Undeveloped Land	CLIENT:	Terracon Consulting
ADDRESS:	1335 West Memphis Street Harlingen TX 78550	CONTACT:	Joe Garcia
		INQUIRY #:	7427688.2s
LAT/LONG:	26.206143 / 97.708447	DATE:	August 28, 2023 12:13 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A1 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXMON6000205257**

Database:	Submitted Drillers Reports Database		
Well Report #:	208493	Well Type:	New Well
Proposed Use:	Domestic	Borehole Depth (ft):	135
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

	Database	EDR ID Number
A2 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023365**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61976
Well Type:	Monitor	Borehole Depth (ft):	24

	Database	EDR ID Number
A3 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023376**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61984
Well Type:	Withdrawal of Water	Borehole Depth (ft):	32

	Database	EDR ID Number
A4 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023371**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61983
Well Type:	Monitor	Borehole Depth (ft):	20

	Database	EDR ID Number
A5 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023375**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61981
Well Type:	Monitor	Borehole Depth (ft):	15

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A6 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023369**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61979
Well Type:	Monitor	Borehole Depth (ft):	22

	Database	EDR ID Number
A7 **North** **1/4 - 1/2 Mile** **Lower**	**TX WELLS**	**TXPLU6000023367**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61982
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
A8 **North** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023368**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61978
Well Type:	Monitor	Borehole Depth (ft):	22

	Database	EDR ID Number
A9 **North** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023370**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61980
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
A10 **North** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023366**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	61977
Well Type:	Monitor	Borehole Depth (ft):	22

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
B11 **SE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000151907**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	411551	Plugging Rpt #:	154110
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

	Database	EDR ID Number
B12 **SE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000151909**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	411554	Plugging Rpt #:	154112
Well Type:	Monitor	Borehole Depth (ft):	20

	Database	EDR ID Number
B13 **SE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000151910**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	411557	Plugging Rpt #:	154114
Well Type:	Monitor	Borehole Depth (ft):	20

	Database	EDR ID Number
B14 **SE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXMON6000404851**

Database:	Submitted Drillers Reports Database		
Well Report #:	411557	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	yes	Plugging Rpt #:	154114

	Database	EDR ID Number
B15 **SE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXMON6000404847**

Database:	Submitted Drillers Reports Database		
Well Report #:	411554	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	154112

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B16
SE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000404842**

Database:	Submitted Drillers Reports Database		
Well Report #:	411551	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	154110

B17
SE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000458318**

Database:	Submitted Drillers Reports Database		
Well Report #:	470028	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	26
Injurious Water Quality:	yes	Plugging Rpt #:	Not Reported

B18
SE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000458316**

Database:	Submitted Drillers Reports Database		
Well Report #:	470026	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	26
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

B19
SE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000458317**

Database:	Submitted Drillers Reports Database		
Well Report #:	470027	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	26
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

B20
SE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000176773**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	179917
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B21
SE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000176770**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	179915
Well Type:	Monitor	Borehole Depth (ft):	25

B22
SE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000176775**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	179919
Well Type:	Monitor	Borehole Depth (ft):	25

C23
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000534331**

Database:	Submitted Drillers Reports Database		
Well Report #:	550867	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C24
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000534678**

Database:	Submitted Drillers Reports Database		
Well Report #:	550868	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C25
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456696**

Database:	Submitted Drillers Reports Database		
Well Report #:	468312	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	5
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C26
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456701**

Database:	Submitted Drillers Reports Database		
Well Report #:	468315	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	5
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C27
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000534329**

Database:	Submitted Drillers Reports Database		
Well Report #:	550865	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

D28
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000098586**

Database:	Submitted Drillers Reports Database		
Well Report #:	100242	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	24
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

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D29
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023365**

Database:	Well Report Database	Fid:	23364
Rec id:	23360	Edr site i:	100242
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-14
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 58 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 24 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	7 ft to 24 ft	Packsize:	16/30
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 7 ft with 1 bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	slurry
Cementedby:	Thomas A. Elms	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	Surface Slab Installed

Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	APOLLO Environmental Strategies, Inc.		
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Thomas C. Pack	Regnum:	3197MN
Comments:	mw-14	Site id:	TXDOL2000023365

C30
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456697**

Database:	Submitted Drillers Reports Database		
Well Report #:	468313	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	174418

C31
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000171229**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	468313	Plugging Rpt #:	174418
Well Type:	Monitor	Borehole Depth (ft):	20

C32
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456702**

Database:	Submitted Drillers Reports Database		
Well Report #:	468316	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	5
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C33
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456700**

Database:	Submitted Drillers Reports Database		
Well Report #:	468314	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	174419

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C34
NNW
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000171230**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	468314	Plugging Rpt #:	174419
Well Type:	Monitor	Borehole Depth (ft):	20

D35
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000098574**

Database:	Submitted Drillers Reports Database		
Well Report #:	100230	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	24
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82945

D36
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042520**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	100230	Plugging Rpt #:	82945
Well Type:	Monitor	Borehole Depth (ft):	24

D37
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023369**

Database:	Well Report Database	Fid:	23368
Rec id:	23364	Edr site i:	100230
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-10
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 35 N	County:	Cameron
Long:	097 41 58 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 24 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	7 ft to 24 ft	Packsize:	16/30
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 7 ft with 1 bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	slurry
Cementedby:	Thomas A. Elms	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	Surface Slab Installed
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data

Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	APOLLO Environmental Strategies, Inc.		
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Thomas C. Pack	Regnum:	3197MN
Comments:	mw-10	Site id:	TXDOL2000023369

C38
NW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000456704**

Database:	Submitted Drillers Reports Database		
Well Report #:	468317	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	5
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

D39
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000098583**

Database:	Submitted Drillers Reports Database		
Well Report #:	100239	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	24
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82948

D40
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042522**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	100239	Plugging Rpt #:	82948
Well Type:	Monitor	Borehole Depth (ft):	24

D41
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023366**

Database:	Well Report Database	Fid:	23365
Rec id:	23361	Edr site i:	100239
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-13
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 57 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported

Completedd:	Not Reported	Diameter:	6 in From Surface To 24 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	7 ft to 24 ft	Packsize:	16/30
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 7 ft with 1 bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	slurry
Cementedby:	Thomas A. Elms	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	Surface Slab Installed
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	APOLLO Environmental Strategies, Inc.		
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Thomas C. Pack	Regnum:	3197MN
Comments:	mw-13	Site id:	TXDOL2000023366

D42
ENE **TX WELLS** **TXPLU6000042511**
1/2 - 1 Mile
Lower

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	82936
Well Type:	Monitor	Borehole Depth (ft):	25

D43
ENE **TX WELLS** **TXDOL2000023387**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23386
Rec id:	23386	Edr site i:	88683
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-5
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data

Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-5	Site id:	TXDOL2000023387

D44
ENE **TX WELLS** **TXDOL2000023388**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23387
Rec id:	23387	Edr site i:	88681
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-4
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-4	Site id:	TXDOL2000023388

D45
ENE **TX WELLS** **TXDOL2000023385**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23384
Rec id:	23384	Edr site i:	88685
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-7
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well

Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-7	Site id:	TXDOL2000023385

D46
ENE **TX WELLS** **TXDOL2000023386**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23385
Rec id:	23385	Edr site i:	88684
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-6
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-6	Site id:	TXDOL2000023386

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D47
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023409**

Database:	Well Report Database	Fid:	23408
Rec id:	23430	Edr site i:	80810
Owner:	Former Lopez Quick Stop	Ownerwell:	TMW-3
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2	Waddress:	1705 N. Sunshine Strip, Harlingen , TX 78550
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 20 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	9 ft to 20 ft	Packsize:	Not Reported
Finterval:	No Data	Sinterval:	No Data
Tinterval:	No Data	Usedmethod:	Not Reported
Cementedby:	Not Reported	Contaminat:	Not Reported
Propertyli:	Not Reported	Verrimetho:	Not Reported
Varriance:	Not Reported	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	Not Reported
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Apollo Environmental Strategies, Inc.		
Companyadd:	P.O. Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	54925	Wsignature:	James H. Miles
Dsignature:	No Data	Regnum:	No Data
Comments:	no data	Site id:	TXDOL2000023409

D48
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023439**

Database:	Well Report Database	Fid:	23438
Rec id:	23431	Edr site i:	80802
Owner:	Former Lopez Quick Stop	Ownerwell:	TMW-2
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2	Waddress:	1705 N. Sunshine Strip, Harlingen , TX 78550
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 20 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	9 ft to 20 ft	Packsize:	Not Reported
Finterval:	No Data	Sinterval:	No Data
Tinterval:	No Data	Usedmethod:	Not Reported
Cementedby:	Not Reported	Contaminat:	Not Reported
Propertyli:	Not Reported	Verrimetho:	Not Reported
Varriance:	Not Reported	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	Not Reported

Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Apollo Environmental Strategies, Inc.		
Companyadd:	P.O. Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	54925	Wsignature:	James H. Miles
Dsignature:	No Data	Regnum:	No Data
Comments:	amended ref# 3231 4/21/06	Site id:	TXDOL2000023439

D49
ENE **TX WELLS** **TXDOL2000023408**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23407
Rec id:	23429	Edr site i:	80820
Owner:	Former Lopez Quick Stop	Ownerwell:	TMW-4
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2	Waddress:	1705 N. Sunshine Strip, Harlingen , TX 78550
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 20 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	9 ft to 20 ft	Packsize:	Not Reported
Finterval:	No Data	Sinterval:	No Data
Tinterval:	No Data	Usedmethod:	Not Reported
Cementedby:	Not Reported	Contaminat:	Not Reported
Propertyli:	Not Reported	Verrimetho:	Not Reported
Varriance:	Not Reported	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	Not Reported
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Apollo Environmental Strategies, Inc.		
Companyadd:	P.O. Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	54925	Wsignature:	James H. Miles
Dsignature:	No Data	Regnum:	No Data
Comments:	no data	Site id:	TXDOL2000023408

D50
ENE **TX WELLS** **TXDOL2000023389**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23388
Rec id:	23388	Edr site i:	88680
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-3
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well

Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 25 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 25 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-3	Site id:	TXDOL2000023389

D51
ENE **TX WELLS** **TXDOL2000023390**
1/2 - 1 Mile
Lower

Database:	Well Report Database	Fid:	23389
Rec id:	23389	Edr site i:	88679
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-2
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-2	Site id:	TXDOL2000023390

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D52
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023384**

Database:	Well Report Database	Fid:	23383
Rec id:	23383	Edr site i:	88686
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-8
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-8	Site id:	TXDOL2000023384

D53
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023383**

Database:	Well Report Database	Fid:	23382
Rec id:	23382	Edr site i:	88687
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-9
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 37 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	2 ft to 22.5 ft	Packsize:	Not Reported
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 2 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	From 22.5 ft to 37 ft with 4 bentonite (#sacks and material)		
Usedmethod:	slurry	Cementedby:	Curtis L. Herrington

Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Varriance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data	Packers:	No Data
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported	Watertype:	No Data
Stratadept:	No Data	Chemicalma:	No Data
Undesirabl:	No Data	Companynam:	APOLLO Environmental Strategies, Inc.
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Curtis L. Herrington	Regnum:	54679M
Comments:	mw-9	Site id:	TXDOL2000023383

D54
ENE **TX WELLS** **TXMON6000079406**
1/2 - 1 Mile
Lower

Database:	Submitted Drillers Reports Database		
Well Report #:	80802	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82937

D55
ENE **TX WELLS** **TXMON6000087123**
1/2 - 1 Mile
Lower

Database:	Submitted Drillers Reports Database		
Well Report #:	88685	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82942

D56
ENE **TX WELLS** **TXMON6000087122**
1/2 - 1 Mile
Lower

Database:	Submitted Drillers Reports Database		
Well Report #:	88684	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82941

D57
ENE **TX WELLS** **TXMON6000087124**
1/2 - 1 Mile
Lower

Database:	Submitted Drillers Reports Database		
Well Report #:	88686	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82943

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
D58 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000079424**

Database:	Submitted Drillers Reports Database		
Well Report #:	80820	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82939

	Database	EDR ID Number
D59 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000079414**

Database:	Submitted Drillers Reports Database		
Well Report #:	80810	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82938

	Database	EDR ID Number
D60 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000087117**

Database:	Submitted Drillers Reports Database		
Well Report #:	88679	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

---

	Database	EDR ID Number
D61 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000087119**

Database:	Submitted Drillers Reports Database		
Well Report #:	88681	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

---

	Database	EDR ID Number
D62 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000087118**

Database:	Submitted Drillers Reports Database		
Well Report #:	88680	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D63
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000087121**

Database:	Submitted Drillers Reports Database		
Well Report #:	88683	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82940

D64
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000087125**

Database:	Submitted Drillers Reports Database		
Well Report #:	88687	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	37
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82944

D65
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042514**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	88687	Plugging Rpt #:	82944
Well Type:	Monitor	Borehole Depth (ft):	22.5

D66
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042517**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	80810	Plugging Rpt #:	82938
Well Type:	Monitor	Borehole Depth (ft):	20

D67
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042504**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	80820	Plugging Rpt #:	82939
Well Type:	Monitor	Borehole Depth (ft):	20

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
D68 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000042512**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	88683	Plugging Rpt #:	82940
Well Type:	Monitor	Borehole Depth (ft):	22.5

	Database	EDR ID Number
D69 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000042513**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	88686	Plugging Rpt #:	82943
Well Type:	Monitor	Borehole Depth (ft):	22.5

	Database	EDR ID Number
D70 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000042519**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	88685	Plugging Rpt #:	82942
Well Type:	Monitor	Borehole Depth (ft):	22.5

	Database	EDR ID Number
D71 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000042518**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	88684	Plugging Rpt #:	82941
Well Type:	Monitor	Borehole Depth (ft):	22.5

	Database	EDR ID Number
D72 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000077595**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	31039
Well Type:	Monitor	Borehole Depth (ft):	17

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D73
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042503**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	80802	Plugging Rpt #:	82937
Well Type:	Monitor	Borehole Depth (ft):	20

C74
NW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000567350**

Database:	Submitted Drillers Reports Database		
Well Report #:	584003	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C75
NW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000567351**

Database:	Submitted Drillers Reports Database		
Well Report #:	584004	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

C76
NW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000567347**

Database:	Submitted Drillers Reports Database		
Well Report #:	584002	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

D77
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023368**

Database:	Well Report Database	Fid:	23367
Rec id:	23363	Edr site i:	100232
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-11
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 36 N	County:	Cameron
Long:	097 41 56 W	Elevation:	No Data

Gpsused:	Magellan	Typeofwork:	New Well
Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 23 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	6 ft to 23 ft	Packsize:	16/30
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 6 ft with 1 bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	slurry
Cementedby:	Thomas A. Elms	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	Surface Slab Installed
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	APOLLO Environmental Strategies, Inc.		
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Thomas C. Pack	Regnum:	3197MN
Comments:	mw-11	Site id:	TXDOL2000023368

D78
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000098576**

Database:	Submitted Drillers Reports Database		
Well Report #:	100232	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	23
Injurious Water Quality:	Not Reported	Plugging Rpt #:	82946

D79
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000042515**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	100232	Plugging Rpt #:	82946
Well Type:	Monitor	Borehole Depth (ft):	23

D80
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023367**

Database:	Well Report Database	Fid:	23366
Rec id:	23362	Edr site i:	100235
Owner:	Former Lopez Quick Stop	Ownerwell:	MW-12
Address:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Grid:	88-51-2		
Waddress:	1705 N. 77 Sunshine Strip, Harlingen , TX 78550		
Lat:	26 12 34 N	County:	Cameron
Long:	097 41 55 W	Elevation:	No Data
Gpsused:	Magellan	Typeofwork:	New Well

Propuse:	Monitor	Sdate:	Not Reported
Completedd:	Not Reported	Diameter:	6 in From Surface To 26 ft
Dmethod:	Hollow Stem Auger	Bcompletio:	Not Reported
Packedfrom:	4 ft to 26 ft	Packsize:	16/30
Finterval:	From 0 ft to 1 ft with 1 concrete (#sacks and material)		
Sinterval:	From 1 ft to 4 ft with 0.5 bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	slurry
Cementedby:	Thomas A. Elms	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	Surface Slab Installed
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	APOLLO Environmental Strategies, Inc.		
Companyadd:	PO Box 12114	Ccitystate:	Beaumont , TX 77726
Licensenum:	51497	Wsignature:	Thomas A. Elms
Dsignature:	Thomas C. Pack	Regnum:	3197MN
Comments:	mw-12	Site id:	TXDOL2000023367

D81
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000098579**

Database:	Submitted Drillers Reports Database		
Well Report #:	100235	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	26
Injurious Water Quality:	Not Reported	Plugging Rpt #:	Not Reported

---

E82
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000033327**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90914
Well Type:	Monitor	Borehole Depth (ft):	33

E83
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000033326**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90913
Well Type:	Monitor	Borehole Depth (ft):	35

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
E84 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000033325**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90912
Well Type:	Monitor	Borehole Depth (ft):	34

	Database	EDR ID Number
E85 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000033334**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90916
Well Type:	Monitor	Borehole Depth (ft):	101

	Database	EDR ID Number
E86 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000033333**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90910
Well Type:	Monitor	Borehole Depth (ft):	34

	Database	EDR ID Number
E87 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000033328**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90915
Well Type:	Monitor	Borehole Depth (ft):	34

	Database	EDR ID Number
E88 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000033321**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	90911
Well Type:	Monitor	Borehole Depth (ft):	35

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
89 **ENE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000080791**

Database:	Submitted Drillers Reports Database		
Well Report #:	82226	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	25
Injurious Water Quality:	Not Reported	Plugging Rpt #:	47844

	Database	EDR ID Number
90 **NW** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXMON6000456705**

Database:	Submitted Drillers Reports Database		
Well Report #:	468318	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	5
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

	Database	EDR ID Number
F91 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023194**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59547
Well Type:	Monitor	Borehole Depth (ft):	25

	Database	EDR ID Number
F92 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023195**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59548
Well Type:	Monitor	Borehole Depth (ft):	25

	Database	EDR ID Number
F93 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023192**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59544
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F94 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023193**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59546
Well Type:	Monitor	Borehole Depth (ft):	25

	Database	EDR ID Number
F95 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023198**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59550
Well Type:	Monitor	Borehole Depth (ft):	30

	Database	EDR ID Number
F96 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023201**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59553
Well Type:	Monitor	Borehole Depth (ft):	30

	Database	EDR ID Number
F97 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023202**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59554
Well Type:	Monitor	Borehole Depth (ft):	30

	Database	EDR ID Number
F98 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023199**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59551
Well Type:	Monitor	Borehole Depth (ft):	30

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F99 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023200**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59552
Well Type:	Monitor	Borehole Depth (ft):	30

	Database	EDR ID Number
F100 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023184**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59537
Well Type:	Monitor	Borehole Depth (ft):	18

	Database	EDR ID Number
F101 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023185**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59539
Well Type:	Monitor	Borehole Depth (ft):	23.5

	Database	EDR ID Number
F102 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023183**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59538
Well Type:	Monitor	Borehole Depth (ft):	23.5

	Database	EDR ID Number
F103 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023176**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59536
Well Type:	Monitor	Borehole Depth (ft):	18.5

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F104 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023179**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59534
Well Type:	Monitor	Borehole Depth (ft):	17.5

	Database	EDR ID Number
F105 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023186**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59540
Well Type:	Monitor	Borehole Depth (ft):	21.5

	Database	EDR ID Number
F106 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023190**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59549
Well Type:	Monitor	Borehole Depth (ft):	30

	Database	EDR ID Number
F107 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023191**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59543
Well Type:	Monitor	Borehole Depth (ft):	18

	Database	EDR ID Number
F108 **NE** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000023189**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59545
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F109
NE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000023187**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59541
Well Type:	Monitor	Borehole Depth (ft):	27

F110
NE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000023188**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	59542
Well Type:	Monitor	Borehole Depth (ft):	20

111
WNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000241652**

Database:	Submitted Drillers Reports Database		
Well Report #:	245393	Well Type:	New Well
Proposed Use:	Industrial	Borehole Depth (ft):	38
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

G112
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000169930**

Database:	Submitted Drillers Reports Database		
Well Report #:	172761	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	Not Reported	Plugging Rpt #:	123693

G113
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000169929**

Database:	Submitted Drillers Reports Database		
Well Report #:	172760	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	Not Reported	Plugging Rpt #:	123692

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G114
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000169928**

Database:	Submitted Drillers Reports Database		
Well Report #:	172759	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	Not Reported	Plugging Rpt #:	123691

G115
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000121655**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	172759	Plugging Rpt #:	123691
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	15

G116
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000121656**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	172760	Plugging Rpt #:	123692
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	15

G117
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000121657**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	172761	Plugging Rpt #:	123693
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	15

G118
East
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023002**

Database:	Well Report Database	Fid:	23001
Rec id:	22993	Edr site i:	172760
Owner:	77 Sunshine Conoco	Ownerwell:	SB7
Address:	1601 N. Business 77, Harlingen , TX	Grid:	88-51-5
Waddress:	Same, Harlingen , TX	Lat:	26 12 27 N
County:	Cameron	Long:	097 41 43 W
Elevation:	No Data	Gpsused:	Maptech Server
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	Not Reported	Completedd:	Not Reported
Diameter:	8.25 in From Surface To 15 ft	Dmethod:	Hollow Stem Auger

Bcompletio:	No Data	Packedfrom:	Not Reported
Packsize:	Not Reported		
Finterval:	From 0 ft to 1 ft with Concrete (#sacks and material)		
Sinterval:	From 1 ft to 15 ft with 5 Bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	Gravity
Cementedby:	Crew	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Total Support Services	Companyadd:	P.O. Box 81621
Ccitystate:	Austin , TX 78708	Licensenum:	54611
Wsignature:	Brian Kern	Dsignature:	No Data
Regnum:	No Data	Comments:	no data
Site id:	TXDOL2000023002		

G119
East
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023001**

Database:	Well Report Database	Fid:	23000
Rec id:	22992	Edr site i:	172761
Owner:	77 Sunshine Conoco	Ownerwell:	SB8
Address:	1601 N. Business 77, Harlingen , TX	Grid:	88-51-5
Waddress:	Same, Harlingen , TX	Lat:	26 12 27 N
County:	Cameron	Long:	097 41 43 W
Elevation:	No Data	Gpsused:	Maptech Server
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	Not Reported	Completedd:	Not Reported
Diameter:	8.25 in From Surface To 15 ft	Dmethod:	Hollow Stem Auger
Bcompletio:	No Data	Packedfrom:	Not Reported
Packsize:	Not Reported		
Finterval:	From 0 ft to 1 ft with Concrete (#sacks and material)		
Sinterval:	From 1 ft to 15 ft with 5 Bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	Gravity
Cementedby:	Crew	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Total Support Services	Companyadd:	P.O. Box 81621
Ccitystate:	Austin , TX 78708	Licensenum:	54611
Wsignature:	Brian Kern	Dsignature:	No Data
Regnum:	No Data	Comments:	no data
Site id:	TXDOL2000023001		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G120
East
1/2 - 1 Mile
Lower

TX WELLS **TXDOL2000023003**

Database:	Well Report Database	Fid:	23002
Rec id:	22994	Edr site i:	172759
Owner:	77 Sunshine Conoco	Ownerwell:	SB6
Address:	1601 N. Business 77, Harlingen , TX	Grid:	88-51-5
Waddress:	Same, Harlingen , TX	Lat:	26 12 27 N
County:	Cameron	Long:	097 41 43 W
Elevation:	No Data	Gpsused:	Maptech Server
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	Not Reported	Completedd:	Not Reported
Diameter:	8.25 in From Surface To 15 ft	Dmethod:	Hollow Stem Auger
Bcompletio:	No Data	Packedfrom:	Not Reported
Packsize:	Not Reported		
Finterval:	From 0 ft to 1 ft with Concrete (#sacks and material)		
Sinterval:	From 1 ft to 15 ft with 5 Bentonite (#sacks and material)		
Tinterval:	No Data	Usedmethod:	Gravity
Cementedby:	Crew	Contaminat:	No Data
Propertyli:	No Data	Verrimetho:	No Data
Varriance:	No Data	Surface:	No Data
Staticleve:	No Data	Flow:	No Data
Packers:	No Data	Cementinwe:	No Data
Typepump:	No Data	Pumpbowl:	Not Reported
Welltests:	No Data	Yield:	Not Reported
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No Data
Companynam:	Total Support Services	Companyadd:	P.O. Box 81621
Ccitystate:	Austin , TX 78708	Licensenum:	54611
Wsignature:	Brian Kern	Dsignature:	No Data
Regnum:	No Data	Comments:	no data
Site id:	TXDOL2000023003		

G121
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000173058**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	473973	Plugging Rpt #:	176203
Well Type:	Monitor	Borehole Depth (ft):	20

G122
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000462338**

Database:	Submitted Drillers Reports Database		
Well Report #:	473973	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	176203

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G123
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000462347**

Database:	Submitted Drillers Reports Database		
Well Report #:	473979	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	176206

G124
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000173060**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	473979	Plugging Rpt #:	176206
Well Type:	Monitor	Borehole Depth (ft):	20

125
WNW
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000241659**

Database:	Submitted Drillers Reports Database		
Well Report #:	245400	Well Type:	New Well
Proposed Use:	Industrial	Borehole Depth (ft):	28
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

G126
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000462349**

Database:	Submitted Drillers Reports Database		
Well Report #:	473982	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	176208

G127
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000173063**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	473982	Plugging Rpt #:	176208
Well Type:	Monitor	Borehole Depth (ft):	20

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G128
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000173066**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	473987	Plugging Rpt #:	176211
Well Type:	Monitor	Borehole Depth (ft):	20

G129
East
1/2 - 1 Mile
Lower

TX WELLS **TXMON6000462353**

Database:	Submitted Drillers Reports Database		
Well Report #:	473987	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	176211

G130
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000072602**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55778
Well Type:	Monitor	Borehole Depth (ft):	25

G131
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000072601**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55777
Well Type:	Monitor	Borehole Depth (ft):	25

G132
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000072600**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55776
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G133 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000073446**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55785
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G134 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072603**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55779
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G135 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072604**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55780
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G136 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000073445**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55784
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G137 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072599**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55775
Well Type:	Monitor	Borehole Depth (ft):	25

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G138 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072594**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55773
Well Type:	Monitor	Borehole Depth (ft):	25

	Database	EDR ID Number
G139 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072593**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55772
Well Type:	Monitor	Borehole Depth (ft):	25

	Database	EDR ID Number
G140 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072590**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55769
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G141 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072595**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55774
Well Type:	Monitor	Borehole Depth (ft):	15

	Database	EDR ID Number
G142 **East** **1/2 - 1 Mile** **Lower**	**TX WELLS**	**TXPLU6000072598**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55783
Well Type:	Monitor	Borehole Depth (ft):	15

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G143
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000072597**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55782
Well Type:	Monitor	Borehole Depth (ft):	15

G144
East
1/2 - 1 Mile
Lower

TX WELLS **TXPLU6000072596**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	Not Reported	Plugging Rpt #:	55781
Well Type:	Monitor	Borehole Depth (ft):	15

H145
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXPLU6000176474**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	486180	Plugging Rpt #:	179603
Well Type:	Monitor	Borehole Depth (ft):	20

H146
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000473498**

Database:	Submitted Drillers Reports Database		
Well Report #:	486176	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

H147
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000473502**

Database:	Submitted Drillers Reports Database		
Well Report #:	486180	Well Type:	New Well
Proposed Use:	Monitor	Borehole Depth (ft):	20
Injurious Water Quality:	no	Plugging Rpt #:	179603

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H148
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000473495**

Database:	Submitted Drillers Reports Database		
Well Report #:	486174	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

H149
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000473497**

Database:	Submitted Drillers Reports Database		
Well Report #:	486175	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	15
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

150
ESE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000244795**

Database:	Submitted Drillers Reports Database		
Well Report #:	248611	Well Type:	New Well
Proposed Use:	Irrigation	Borehole Depth (ft):	30
Injurious Water Quality:	no	Plugging Rpt #:	Not Reported

I151
ESE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000388485**

Database:	Submitted Drillers Reports Database		
Well Report #:	394676	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	20
Injurious Water Quality:	Not Reported	Plugging Rpt #:	150322

I152
ESE
1/2 - 1 Mile
Higher

TX WELLS **TXMON6000388484**

Database:	Submitted Drillers Reports Database		
Well Report #:	394675	Well Type:	New Well
Proposed Use:	Environmental Soil Boring	Borehole Depth (ft):	6
Injurious Water Quality:	Not Reported	Plugging Rpt #:	150321

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
I153 **ESE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000148179**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	394675	Plugging Rpt #:	150321
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	6

	Database	EDR ID Number
I154 **ESE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXPLU6000148180**

Database:	Submitted Drillers Reports Database (Plugged)		
Well Report #:	394676	Plugging Rpt #:	150322
Well Type:	Environmental Soil Boring	Borehole Depth (ft):	20

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: TX Radon

Radon Test Results

County	Mean	Total Sites	%>4 pCi/L	%>20 pCi/L	Min pCi/L	Max pCi/L
CAMERON	<.5	11	.0	.0	<.5	1.4

Federal EPA Radon Zone for CAMERON County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CAMERON COUNTY, TX

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.386 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.100 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Texas General Land Office
Telephone: 512-463-0745

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Sources Databases
Source: Texas Commission on Environmental Quality
Telephone: 512-239-6199
Locations of public drinking water sources maintained by the TCEQ.

Groundwater Database
Source: Texas Water Development Board
Telephone: 512-936-0837

Well Report Database
Source: Department of Licensing and Regulation
Telephone: 512-936-0833

Water Well Database
Source: Harris-Galveston Coastal Subsidence District
Telephone: 281-486-1105

Brackish Resources Aquifer Characterization System Database
Source: Texas Water Development Board
WDB's Brackish Resources Aquifer Characterization System (BRACS) was designed to map and characterize the brackish aquifers of Texas in greater detail than previous studies. The information is contained in the BRACS Database and project data are summarized in a project report with companion geographic information system data files.

Submitted Driller's Reports Database
Source: Texas Water Development Board
Telephone: 512-936-0833
The Submitted Driller's Report Database is populated from the online Texas Well Report Submission and Retrieval System which is a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application that registered water-well drillers use to submit their required reports.

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Texas Oil and Gas Wells
Source: Texas Railroad Commission
Telephone: 512-463-6882
Oil and gas well locations.

RADON

State Database: TX Radon
Source: Department of Health
Telephone: 512-834-6688
Rinal Report of the Texas Indoor Radon Survey

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Texas Coastal Ecological Services Field Office
17629 El Camino Real, Suite 211
Houston, TX 77058-3051
Phone: (281) 286-8282 Fax: (281) 488-5882

In Reply Refer To: September 13, 2023
Project Code: 2023-0128192
Project Name: Harlingen Undeveloped Land

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The U.S. Fish and Wildlife Service (Service) field offices in Clear Lake, Corpus Christi, and Alamo, Texas, have combined administratively to form the Texas Coastal Ecological Services Field Office. All project related correspondence should be sent to the field office address listed below responsible for the county in which your project occurs:

Project Leader; U.S. Fish and Wildlife Service; 17629 El Camino Real Ste. 211; Houston, Texas 77058
Angelina, *Austin*, *Brazoria*, *Brazos*, *Chambers, Colorado, Fayette, Fort Bend, Freestone, Galveston, Grimes, Hardin, Harris, Houston, Jasper, Jefferson, Leon, Liberty, Limestone, Madison, Matagorda, Montgomery, Newton, Orange, Polk, Robertson, Sabine, San Augustine, San Jacinto, Trinity, Tyler, Walker, Waller, and Wharton.*

Assistant Field Supervisor, U.S. Fish and Wildlife Service; 4444 Corona Drive, Ste 215; Corpus Christi, Texas 78411
Aransas, Atascosa, Bee, Brooks, Calhoun, De Witt, Dimmit, Duval, Frio, Goliad, Gonzales, Hidalgo, Jackson, Jim Hogg, Jim Wells, Karnes, Kenedy, Kleberg, La Salle, Lavaca, Live Oak, Maverick, McMullen, Nueces, Refugio, San Patricio, Victoria, and Wilson.

U.S. Fish and Wildlife Service; Santa Ana National Wildlife Refuge; Attn: Texas Ecological Services Sub-Office; 3325 Green Jay Road, Alamo, Texas 78516
Cameron, Hidalgo, Starr, Webb, Willacy, and Zapata.

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 boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as

amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please 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. Please 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 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 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 threatened and endangered species and to determine whether projects may affect threatened and endangered 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.

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 the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. 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/media/endangered-species-consultation-handbook.

Non-Federal entities may consult under Sections 9 and 10 of the Act. Section 9 and Federal regulations prohibit the take of endangered and threatened species, respectively, without special exemption. “Take” is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. “Harm” is further defined (50 CFR § 17.3) to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. “Harass” is defined (50 CFR § 17.3) as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding or sheltering. Should the proposed project

have the potential to take listed species, the Service recommends that the applicant develop a Habitat Conservation Plan and obtain a section 10(a)(1)(B) permit. The Habitat Conservation Planning Handbook is available at: https://www.fws.gov/library/collections/habitat-conservation-planning-handbook.

Migratory Birds:
In addition to responsibilities to protect threatened and endangered species under the Act, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts visit: https://www.fws.gov/program/migratory-birds.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable National Environmental Policy Act (NEPA) documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat.

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 Code 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
- Migratory Birds
- Wetlands

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:

Texas Coastal Ecological Services Field Office
17629 El Camino Real, Suite 211
Houston, TX 77058-3051
(281) 286-8282

PROJECT SUMMARY

Project Code: 2023-0128192
Project Name: Harlingen Undeveloped Land
Project Type: Power Gen - Other
Project Description: Phase I ESA for battery storage facility
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@26.20615255,-97.7085203737987,14z

Counties: Cameron County, Texas

ENDANGERED SPECIES ACT SPECIES

There is a total of 16 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.

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.

MAMMALS

NAME	STATUS
Gulf Coast Jaguarundi *Puma yagouaroundi cacomitli* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3945	Endangered
Ocelot *Leopardus (=Felis) pardalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4474	Endangered

BIRDS

NAME	STATUS
Eastern Black Rail *Laterallus jamaicensis ssp. jamaicensis*	Threatened
No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10477	
Northern Aplomado Falcon *Falco femoralis septentrionalis*	Endangered
Population: Wherever found, except where listed as an experimental population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	
Piping Plover *Charadrius melodus*	Threatened
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 does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6039	
Red Knot *Calidris canutus rufa*	Threatened
There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	

REPTILES

NAME	STATUS
Green Sea Turtle *Chelonia mydas*	Threatened
Population: North Atlantic DPS There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6199	
Hawksbill Sea Turtle *Eretmochelys imbricata*	Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3656	
Kemp's Ridley Sea Turtle *Lepidochelys kempii*	Endangered
There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/5523	
Leatherback Sea Turtle *Dermochelys coriacea*	Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1493	
Loggerhead Sea Turtle *Caretta caretta*	Threatened
Population: Northwest Atlantic Ocean DPS There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1110	

CLAMS

NAME	STATUS
Mexican Fawnsfoot *Truncilla cognata* There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/7870	Proposed Endangered
Salina Mucket *Potamilus metnecktayi* There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/8753	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

FLOWERING PLANTS

NAME	STATUS
South Texas Ambrosia *Ambrosia cheiranthifolia* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3331	Endangered
Texas Ayenia *Ayenia limitaris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4942	Endangered

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover *Pluvialis dominica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Eastern Meadowlark *Sturnella magna* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 25 to Aug 31
Gull-billed Tern *Gelochelidon nilotica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9501	Breeds May 1 to Jul 31
King Rail *Rallus elegans* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8936	Breeds May 1 to Sep 5
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Long-billed Curlew *Numenius americanus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5511	Breeds elsewhere

NAME	BREEDING SEASON
Orchard Oriole *Icterus spurius* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Jun 10 to Aug 15
Painted Bunting *Passerina ciris* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 25 to Aug 15
Sprague's Pipit *Anthus spragueii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8964	Breeds elsewhere

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

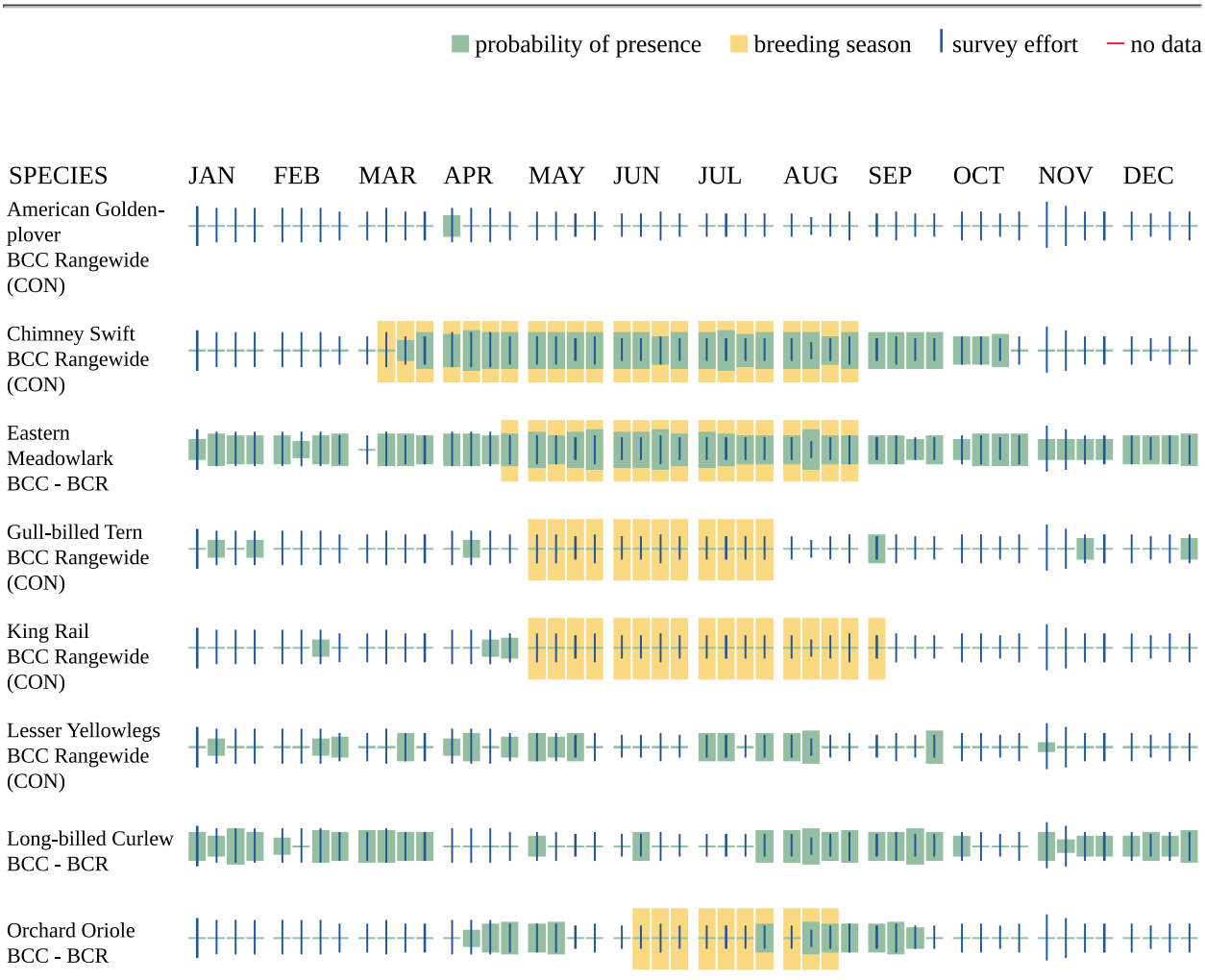
Breeding Season (■)

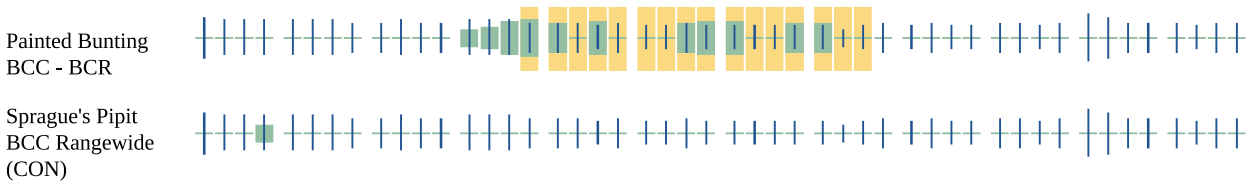
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

MIGRATORY BIRDS FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

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Last Update: 9/1/2023

CAMERON COUNTY

AMPHIBIANS

black-spotted newt *Notophthalmus meridionalis*

Terrestrial and aquatic: Terrestrial habitats used by adults are typically poorly drained clay soils that allow for the formation of ephemeral wetlands. A wide variety of vegetation associations are known to be used, such as thorn scrub and pasture. Aquatic habitats used for reprodution are a variety of ephemeral and permanent water bodies.

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

Mexican treefrog *Smilisca baudinii*

Terrestrial and aquatic: Terrestrial habitas used include forested and brush around water bodies. Aquatic habitast used can any any body of water but preferred breeding sites are small, ephemeral wetlands.

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

sheep frog *Hypopachus variolosus*

Terrestrial and aquatic: Predominantly grassland and savanna; largely fossorial in areas with moist microclimates.

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

South Texas siren (Large Form) *Siren sp. 1*

Aquatic: Mainly found in bodies of quiet water, permanent or temporary, with or without submergent vegetation. Wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods, but does require some moisture to remain.

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

Strecker's chorus frog *Pseudacris streckeri*

Terrestrial and aquatic: 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

white-lipped frog *Leptodactylus fragilis*

Terrestrial and aquatic: Lowlands, grasslands, cultivated fields, roadside ditches, and a wide variety of other habitats; often hides under rocks or in burrows under clumps of grass.

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

CAMERON COUNTY

AMPHIBIANS

Woodhouse's toad *Anaxyrus woodhousii*

Terrestrial and aquatic: A wide variety of terrestrial habitats are used by this species, including forests, grasslands, and barrier island sand dunes. Aquatic habitats are equally varied.

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

BIRDS

black rail *Laterallus jamaicensis*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Salt, brackish, and freshwater marshes, pond borders, wet meadows, and grassy swamps; nests in or along edge of marsh, sometimes on damp ground, but usually on mat of previous years dead grasses; nest usually hidden in marsh grass or at base of Salicornia

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

black skimmer *Rynchops niger*

Habitat description is not available at this time.

Federal Status: State Status: SGCN: Y
Endemic: N Global Rank: G5 State Rank: S2B

common black-hawk *Buteogallus anthracinus*

Cottonwood-lined rivers and streams; willow tree groves on the lower Rio Grande floodplain; formerly bred in south Texas

Federal Status: State Status: T SGCN: Y
Endemic: N Global Rank: G4G5 State Rank: S2B

Franklin's gull *Leucophaeus pipixcan*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. This species is only a spring and fall migrant throughout Texas. It does not breed in or near Texas. Winter records are unusual consisting of one or a few individuals at a given site (especially along the Gulf coastline). During migration, these gulls fly during daylight hours but often come down to wetlands, lake shore, or islands to roost for the night.

Federal Status: State Status: SGCN: Y
Endemic: N Global Rank: G5 State Rank: S2N

gray hawk *Buteo plagiatus*

Locally and irregularly along U.S.-Mexico border; mature riparian woodlands and nearby semiarid mesquite and scrub grasslands; breeding range formerly extended north to southernmost Rio Grande floodplain of Texas

Federal Status: State Status: T SGCN: Y
Endemic: N Global Rank: G5 State Rank: S2B

CAMERON COUNTY

BIRDS

lark bunting *Calamospiza melanocorys*

Overall, it's a generalist in most short grassland settings including ones with some brushy component plus certain agricultural lands that include grain sorghum. Short grasses include sideoats and blue gramas, sand dropseed, prairie junegrass (Koeleria), buffalograss also with patches of bluestem and other mid-grass species. This bunting will frequent smaller patches of grasses or disturbed patches of grasses including rural yards. It also uses weedy fields surrounding playas. This species avoids urban areas and cotton fields.

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

northern aplomado falcon *Falco femoralis septentrionalis*

Open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G4T2T3	State Rank: S1

northern beardless-tyrannulet *Camptostoma imberbe*

Mesquite woodlands; also cottonwood, willow, elm, and tepeguaje near the Rio Grande. Breeding April to July

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

piping plover *Charadrius melodus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. 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

red-crowned parrot *Amazona viridigenalis*

Starting in the late 1980s to early 1990s, this species has increased in numbers in urban settings in Cameron and Hidalgo counties. This cavity-nesting species prefers dead palm trees, including non-native Washingtonian palms, with abandoned cavities excavated by Golden-fronted Woodpeckers. Grooming of palms (i.e., trimming the dead, drooping fronds) does not appear to directly impact this species; however removal of dead palms with or without cavities should be avoided.

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

reddish egret *Egretta rufescens*

CAMERON COUNTY

BIRDS

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: S2B

rose-throated becard *Pachyramphus aglaiae*

Riparian corridors; trees, woodlands, open forest, scrub, and mangroves; breeding April to July.

Federal Status:	State Status: T	SGCN: N
Endemic: N	Global Rank: G4G5	State Rank: SNA

rufa red knot *Calidris canutus rufa*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore. Bolivar Flats in Galveston County, sandy beaches Mustang Island, few on outer coastal and barrier beaches, tidal mudflats and salt marshes.

Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4T2	State Rank: S2N

sooty tern *Onychoprion fuscatus*

Primarily an offshore bird; does nest on sandy beaches and islands, breeding April-July.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S1B

Sprague's pipit *Anthus spragueii*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Habitat during migration and in winter consists of pastures and weedy fields (AOU 1983), including grasslands with dense herbaceous vegetation or grassy agricultural fields.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3N

swallow-tailed kite *Elanoides forficatus*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. Lowland forested regions, especially swampy areas, ranging into open woodland; marshes, along rivers, lakes, and ponds; nests high in tall tree in clearing or on forest woodland edge, usually in pine, cypress, or various deciduous trees.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2B

CAMERON COUNTY

BIRDS

Texas Botteri's sparrow *Peucaea botterii texana*

Grassland and short-grass plains with scattered bushes or shrubs, sagebrush, mesquite, or yucca; nests on ground of low clump of grasses

Federal Status:	State Status: T	SGCN: N
Endemic: N	Global Rank: G4T4	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*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. 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

white-tailed hawk *Buteo albicaudatus*

Near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S4B

wood stork *Mycteria americana*

The county distribution for this species includes geographic areas that the species may use during migration. Time of year should be factored into evaluations to determine potential presence of this species in a specific county. 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*

CAMERON COUNTY

BIRDS

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

FISH

alligator gar *Atractosteus spatula*

From the Red River to the Rio Grande (Hubbs et al. 2008); occurs in the Trinity River upstream of Lake Livingston. Found in rivers, streams, lakes, swamps, bayous, bays and estuaries typically in pools and backwater habitats. Floodplains inundated with flood waters provide spawning and nursery habitats.

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

american eel *Anguilla rostrata*

Originally found in all river systems from the Red River to the Rio Grande. Aquatic habtiats include large rivers, streams, tributaries, coastal watersheds, estuaries, bays, and oceans. Spawns in Sargasso Sea, larva move to coastal waters, metamorphose, and begin upstream movements. Females tend to move further upstream than males (who are often found in brackish estuaries). American Eel are habitat generalists and may be found in a broad range of habitat conditions including slow- and fast-flowing waters over many substrate types. Extirpation in upstream drainages attributed to reservoirs that impede upstream migration.

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

Mexican goby *Ctenogobius claytonii*

Southern coastal area; brackish and freshwater coastal streams; tidal freshwater associated with silty sandbars and grass beds.

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

oceanic whitetip shark *Carcharhinus longimanus*

Habitat description is not available at this time.

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

CAMERON COUNTY

FISH

opossum pipefish *Microphis brachyurus*

Adults are only found in low salinity waters of estuaries or freshwater tributaries within 30 miles of the coast (Gilmore 1992), where they also give birth. Young move or are carried into more saline waters off the coast after birth. Newly released larvae must have conditions near 18 ppt salinity for at least two weeks after birth to survive, indicating a physiology adapted for downstream transport to estuarine and marine environments (Frias-Torres 2002). Juvenile migration toward the ocean depends on water flow regimes, salinity, and vegetation for cover and capturing prey (Frias-Torres 2002). Seawalls, docks, and riprap construction destroy habitat and poor water quality and alteration of flow regimes may prevent migration (NMFS 2009).

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3N

Rio Grande shiner *Notropis jemezanus*

Rio Grande drainage. Occurs over substrate of rubble, gravel and sand, often overlain with silt

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

river goby *Awaous banana*

Formerly occupied the mainstream of the Rio Grande in Texas (northern most portion of their range). Generally occupies clear, well oxygenated streams and rivers with slow to moderate current (dependent on flowing water), sandy, muddy, or hard bottom, and little or no vegetation; also enters brackish and marine waters. Shaded areas of streams/rivers may be preferred. Spawning takes place in freshwater and eggs drift downstream to brackish or salt water where they hatch. Larvae migrate back into streams as they develop, but have a higher salinity tolerance than adults. Feeds mainly on filamentous algae.

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

shortfin mako shark *Isurus oxyrinchus*

Habitat description is not available at this time.

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

smalltooth sawfish *Pristis pectinata*

Different life history stages have different patterns of habitat use: young of year, Age 1, and Age 2 are dependent upon shallow (<1m), eurahayline waters with red mangrove lined shoreline (Norton et al. 2012). These age classes are often found found very close to shore over muddy and sandy bottoms in sheltered bays, on shallow banks, and in estuaries or river mouths. These age classes can tolerate a wide range of salinities, but will move in and out of protected areas (estuaries) due to changes in flow and salinity (Poulakis and Seitz 2011). Larger juveniles may occupy greater depth strata in areas further from shore as they consistently occupy marine waters. Adult sawfish are encountered in various habitat types (mangrove, oyster reef, seagrass, and coral), in varying salinity regimes and temperatures, and at various water depths, feed on a variety of fish species. Adult female sawfish return to protected estuarine areas to give birth.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G1G3	State Rank: SNR

snook *Centropomus undecimalis*

CAMERON COUNTY

FISH

Juvenile common snook are generally restricted to the protection of riverine, salt marshes, seagrass beds, and estuary environments. These environments offer shallow water and an overhanging vegetative shoreline. Juvenile common snook can survive in waters with lower oxygen levels than adults. Adult common snook inhabit many fresh, estuarine, and marine environments including mangrove forests, beaches, river mouths, nearshore reefs, salt marshes, sea grass meadows, and near structure (pilings, artificial reefs, etc.). Adult common snook appear to be less sensitive to cold water temperatures than larvae or small juveniles. The lower lethal limit of water temperature is 48.2°-57.2° F (9°-14° C) for juveniles and 42.8°-53.6° F (6°-12° C) for adults (Hill 2005, Press 2010).

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

southern flounder *Paralichthys lethostigma*

This is an estuarine-dependent species that inhabits riverine, estuarine and coastal waters, and prefers muddy, sandy, or silty substrates (Reagan and Wingo 1985). Individuals can tolerate wide temperature (~5-35°C) and salinity ranges (0-60 ppt). Southern Flounder spawn in offshore waters of the Gulf of Mexico from October to February (Reagan and Wingo 1985). The oceanic larval stage is pelagic and lasts 30–60 days. Metamorphosing individuals enter estuaries and migrate towards low-salinity headwaters, where settlement occurs (Burke et al. 1991, Walsh et al. 1999). The young fish enter the bays during late winter and early spring, occupying seagrass; some may move further into coastal rivers and bayous. Juveniles remain in estuaries until the onset of sexual maturation (approximately two years), at which time they migrate out of estuaries to join adults on the inner continental shelf. Adult southern flounder leave the bays during the fall for spawning in the Gulf of Mexico. They spawn for the first time when two years old at depths of 50 to 100 feet. Although most of the adults leave the bays and enter the Gulf for spawning during the winter, some remain behind and spend winter in the bays. Those in the Gulf will reenter the bays in the spring. The spring influx is gradual and does not occur with large concentrations that characterize the fall emigration.

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

INSECTS

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

Boca Chica flea beetle *Chaetocnema rileyi*

Habitat description is not available at this time.

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

Brownsville meadow katydid *Conocephalus resacensis*

Habitat description is not available at this time.

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

CAMERON COUNTY

INSECTS

gladiator short-winged katydid *Dichopetala gladiator*

Habitat description is not available at this time.

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

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

neojuvenile tiger beetle *Cicindela obsoleta neojuvenilis*

Bare or sparsely vegetated, dry, hard-packed soil; typically in previously disturbed areas; peak adult activity in Jul

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G5T1	State Rank: SH

No accepted common name *Sphingicampa blanchardi*

Woodland - hardwood; Tamaulipan thornscrub with caterpillars host plant, Texas Ebony (Pitheocellobium flexicaule) an important element

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

No accepted common name *Pachyschelus fisheri*

Habitat description is not available at this time.

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

No accepted common name *Disonycha barberi*

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 *Disonycha stenosticha*

Habitat description is not available at this time.

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

CAMERON COUNTY

INSECTS

No accepted common name *Conotrachelus rubescens*
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 *Ptinus tumidus*
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 *Trichodesma pulchella*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: S1

No accepted common name *Trichodesma sordida*
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 *Ormiscus albofasciatus*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: S2

No accepted common name *Spectralia prosternalis*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Y Global Rank: GNR State Rank: S2

No accepted common name *Trigonogya reticulaticollis*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Y Global Rank: GNR State Rank: S1

CAMERON COUNTY

INSECTS

No accepted common name *Chalcodermus semicostatus*
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 *Platyomus flexicaulis*
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 *Hyperaspis rotunda*
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 *Cenophengus pallidus*
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 *Lachnodactyla texana*
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 *Dacoderus steineri*
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 *Diomus pseudotaedatus*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: SNR

CAMERON COUNTY

INSECTS

No accepted common name *Talanus mecoscelis*
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 *Hapalips texanus*
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 *Loberus ornatus*
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 *Toramus chamaeropis*
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 *Heterobrenthus texanus*
Habitat description is not available at this time.
Federal Status: State Status: SGCN: Y
Endemic: Global Rank: GNR State Rank: S1

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

CAMERON COUNTY

INSECTS

No accepted common name *Brucita marmorata*

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 *Megascelis texana*

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 *Pachybrachis duryi*

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 *Perdita tricincta*

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 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 *Heliastus subroseus*

Sand dunes with sparse vegeatation in back of the beach along the Texas coast.

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

No accepted common name *Cisthene conjuncta*

Habitat description is not available at this time.

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

CAMERON COUNTY

INSECTS

No accepted common name *Ormiscus irroratus*

Habitat description is not available at this time.

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

subtropical black sky tiger beetle *Cicindela nigrocoerulea subtropica*

Most tiger beetles are active, usually brightly colored, and found in open, sunny areas; adult tiger beetles are predaceous and feed on a variety of small insects; larvae of tiger beetles are also predaceous and live in vertical burrows in soil of dry paths, fields, or sandy beaches

Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G5T2	State Rank: SH

Tamaulipan agapema *Agapema galbina*

Tamaulipan thornscrub with adequate densities of the caterpillar foodplant Condalia hookeri hookeri (= obovata); adults occur Sep - Oct; eggs hatch within two weeks and larvae mature rapidly

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

Tamaulipan clubtail dragonfly *Gomphus gonzalezi*

Rivers, muddy to clear and rocky, should be watched for in substantial creeks as well. This species is considered rare and has a very restricted range in the Rio Grande Valley and southward in eastern Mexico. Abundance information is lacking (Ware et al 2016; Abbott 2005).

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

thumb-bearing short-winged katydid *Dichopetala pollicifera*

Habitat description is not available at this time.

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

MAMMALS

barrier island Texas pocket gopher *Geomys personatus personatus*

Limited information available. Likely found in sandy soils.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G4TNR	State Rank: SNR

CAMERON COUNTY

MAMMALS

blue whale *Balaenoptera musculus*

Inhabits tropical, subtropical, temperate, and subpolar waters worldwide, but are infrequently sighted in the Gulf of Mexico. They migrate seasonally between summer feeding grounds and winter breeeding grounds, but specifics vary. Commonly observed at the surface in open ocean.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: SH

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: S2S3

Coues' rice rat *Oryzomys couesi aquaticus*

Cattail-bulrush marsh with shallower zone of aquatic grasses near the shoreline; shade trees around the shoreline are important features; prefers salt and freshwater, as well as grassy areas near water; breeds April-August

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G5T2T4	State Rank: S2

eastern red bat *Lasiurus borealis*

Red bats are migratory bats that are common across Texas. They are most common in the eastern and central parts of the state, due to their requirement of forests for foliage roosting. West Texas specimens are associated with forested areas (cottonwoods). Also common along the coastline. These bats are highly mobile, seasonally migratory, and practice a type of "wandering migration". Associations with specific habitat is difficult unless specific migratory stopover sites or wintering grounds are found. Likely associated with any forested area in East, Central, and North Texas but can occur statewide.

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

eastern spotted skunk *Spilogale putorius*

Generalist; 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

Gulf of Mexico Bryde's whale *Balaenoptera ricei*

Habitat description is not available at this time.

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

hoary bat *Lasiurus cinereus*

CAMERON COUNTY

MAMMALS

Hoary bats are highly migratory, high-flying bats that have been noted throughout the state. Females are known to migrate to Mexico in the winter, males tend to remain further north and may stay in Texas year-round. Commonly associated with forests (foliage roosting species) but are found in unforested parts of the state and lowland deserts. Tend to be captured over water and large, open flyways.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3

humpback whale *Megaptera novaeangliae*

Inhabits tropical, subtropical, temperate, and subpolar waters world wide. Migrate up to 5,000 miles between colder water (feeding grounds) and warmer water (calving grounds) each year. They will use both open ocean and coastal waters, sometimes including inshore areas such as bays, and are often found near the surface; however, this species is rare in the Gulf of Mexico. The northwest Atlantic/Gulf of Mexico distinct population segment is not considered at risk of extinction and is not listed as Endangered on the Endangered Species Act.

Federal Status: LE	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: SNR

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

mountain lion *Puma concolor*

Generalist; found in a wide range of habitats statewide. Found most frequently in rugged mountains & riparian zones.

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

North Atlantic right whale *Eubalaena glacialis*

Inhabits subtropical and temperate waters in the northern Atlantic. Commonly found in coastal waters or clsoe to the continental shelf near the surface. They migrate from feeding grounds in cooler waters (Canada and New England) to warmer waters of the southeast US (South Carolina, Georgia, and Florida) to give birth in the fall/winter - both areas are identified as critical habitat by NOAA-NMFS. Nursery areas are in shallow, coastal waters. This species is very rare in the Gulf of Mexico and the few reported sightings are likely vagrants (Ward-Geiger etal 2011).

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

northern yellow bat *Lasiurus intermedius*

Occurs mainly along the Gulf Coast but inland specimens are not uncommon. Prefers roosting in spanish moss and in the hanging fronds of palm trees. Common where this vegtation occurs. Found near water and forages over grassy, open areas. Males usually roost solitarily, whereas females roost in groups of several individuals.

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

CAMERON COUNTY

MAMMALS

ocelot *Leopardus pardalis*

Restricted to mesquite-thorn scrub and live-oak mottes; avoids open areas. Dense mixed brush below four feet; thorny shrublands; dense chaparral thickets; breeds and raises young June-November.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S1

sei whale *Balaenoptera borealis*

Habitat description is not available at this time.

Federal Status: LE	State Status: E	SGCN: N
Endemic: N	Global Rank: G5?	State Rank: SNR

southern yellow bat *Lasiurus ega*

Relict palm grove is only known Texas habitat. Neotropical species roosting in palms, forages over water; insectivorous; breeding in late winter. Roosts in dead palm fronds in ornamental palms in urban areas.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3S4

sperm whale *Physeter macrocephalus*

Inhabits tropical, subtropical, and temperate waters world wide, avoiding icey waters. Distribution is highly dependent on their food source (squids, sharks, skates, and fish), breeding, and composition of the pod. In general, this species migrates from north to south in the winter and south to north in the summer; however, individuals in tropical and temperate waters don't seem to migrate at all. Routinely dive to catch their prey (2,000-10,000 feet) and generally occupies water at least 3,300 feet deep near ocean trenches.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S1

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: G3G4	State Rank: S2

West Indian manatee *Trichechus manatus*

Large rivers, brackish water bays, coastal waters. Warm waters of the tropics, in rivers and brackish bays but may also survive in salt water habitats. Very sensitive to cold water temperatures. Rarely occurring as far north as Texas. Gulf and bay system; opportunistic, aquatic herbivore.

Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G2G3	State Rank: S1

CAMERON COUNTY

MAMMALS

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

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

Mexican fawnsfoot *Truncilla cognata*

Occurs in large rivers but may also be found in medium-sized streams. Is commonly found in habitats with some flowing water, often in protected near shore areas such as banks and backwaters but also at the head of riffles; the latter more often supporting both sub-adults and adults. Typically occurs in substrates of mixed sand and gravel as well as soft unconsolidated sediments. Considered intolerant of reservoirs (Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]

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

No accepted common name *Praticolella candida*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G2	State Rank: S3

Salina mucket *Potamilus metnecktayi*

Occurs in medium to large rivers, where it may be found in substrates composed of various combinations of mud, sand, gravel, and cobble, as well as under rocks. It occurs in areas with slow to moderate current, most often in stable littoral habitats dominated by boulder or bedrock habitat; not known from reservoirs (Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]

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

Texas hornshell *Popenaias popeii*

Occurs in small streams to large rivers in slow to moderate current, often residing in rock crevices, travertine shelves, and under large boulders, where small-grained material, such as clay, silt, or sand gathers. Can also occur in riffles that are clean swept of soft silt; not known from reservoirs (Carman 2007; Inoue et al. 2014; Randklev et al. 2017b; Randklev et al. forthcoming). [Mussels of Texas 2019]

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

CAMERON COUNTY

REPTILES

Atlantic hawksbill sea turtle *Eretmochelys imbricata*

Inhabit tropical and subtropical waters worldwide, in the Gulf of Mexico, especially Texas. Hatchling and juveniles are found in open, pelagic ocean and closely associated with floating lgae/seagrass mats. Juveniles then migrate to shallower, coastal areas, mainly coral reefs and rocky areas, but also in bays and estuaries near mangroves when reefs are absent; seldom in water lmore than 65 feet deep. They feed on sponges, jellyfish, sea urchins, molluscs, and crustaceans. Nesting occurs from April to November high up on the beach where there is vegetation for cover and little or no sand. Some migrate, but others stay close to foraging areas - females are philopatric.

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

black-striped snake *Coniophanes imperialis*

Terrestrial: Occurs in native thorn scrub and woodlands a well as modfied urban areas. Prefers warm, moist microhabitats, and sandy soils.

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S2S3

eastern box turtle *Terrapene carolina*

Terrestrial: 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.

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

green sea turtle *Chelonia mydas*

Inhabits tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. Adults and juveniles occupy inshore and nearshore areas, including bays and lagoons with reefs and seagrass. They migrate from feeding grounds (open ocean) to nesting grounds (beaches/barrier islands) and some nesting does occur in Texas (April to September). Adults are herbivorous feeding on sea grass and seaweed; juveniles are omnivorous feeding initially on marine invertebrates, then increasingly on sea grasses and seaweeds.

Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S3B,S3N

Kemp's Ridley sea turtle *Lepidochelys kempii*

Inhabits tropical, subtropical, and temperate waters of the northwestern Atlantic Ocean and Gulf of Mexico. Adults are found in coastal waters with muddy or sandy bottoms. Some males migrate between feeding grounds and breeeding grounds, but some don't. Females migrate between feeding and nesting areas, often returning to the same destinations. Nesting in Texas occurs on a smaller scale compared to other areas (i.e. Mexico). Hatchlings are quickly swept out to open water and are rarely found nearshore. Similarly, juveniles often congregate near floating algae/seagrass mats offshore, and move into nearshore, coastal, neritic areas after 1-2 years and remain until they reach maturity. They feed primarily on crabs, but also snails, clams, other crustaceans and plants, juveniles feed on sargassum and its associated fauna; nests April through August.

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

CAMERON COUNTY

REPTILES

leatherback sea turtle *Dermochelys coriacea*

Inhabit tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. Nesting is not common in Texas (March to July). Most pelagic of the seaturtles with the longest migration (>10,000 miles) between nesting and foraging sites. Are able to dive to depths of 4,000 feet. They are omnivorous, showing a preference for jellyfish.

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G2	State Rank: S1S2

loggerhead sea turtle *Caretta caretta*

Inhabits tropical, subtropical, and temperate waters worldwide, including the Gulf of Mexico. They migrate from feeding grounds to nesting beaches/barrier islands and some nesting does occur in Texas (April to September). Beaches that are narrow, steeply sloped, with coarse-grain sand are preffered for nesting. Newly hatched individuals depend on floating alage/seaweed for protection and foraging, which eventually transport them offshore and into open ocean. Juveniles and young adults spend their lives in open ocean, offshore before migrating to coastal areas to breed and nest. Foraging areas for adults include shallow continental shelf waters.

Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S4

Mexican hog-nosed snake *Heterodon kennerlyi*

Habitat description is not available at this time.

Federal Status:	State Status:	SGCN: N
Endemic:	Global Rank: G4	State Rank: SNR

northern cat-eyed snake *Leptodeira septentrionalis septentrionalis*

Terrestrial: Thorn scrub and decidious woodland; dense thickets bordering ponds and streams.

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

Rio Grande river cooter *Pseudemys gorzugi*

Aquatic: Habitat includes rivers and their more permanent spring-fed tributary streams, beaver ponds, and stock tanks (Garrett and Barker 1987). Occupied waters may have a muddy, sandy, or rocky bottom, and may or may not contain aquatic vegetation (Degenhardt et al. 1996).

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

slender glass lizard *Ophisaurus attenuatus*

Terrestrial: 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.

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

CAMERON COUNTY

REPTILES

speckled racer *Drymobius margaritiferus*

Terrestrial: Dense thickets near water, palm groves, riparian woodlands; often in areas with much vegetation litter on ground.

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

Texas horned lizard *Phrynosoma cornutum*

Terrestrial: Open habitats with sparse vegetation, including grass, prairie, 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. Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area.

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

Texas indigo snake *Drymarchon melanurus erebennus*

Terrestrial: Thornbush-chaparral woodland of south Texas, in particular dense riparian corridors.Can do well in suburban and irrigated croplands. Requires moist microhabitats, such as rodent burrows, for shelter.

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

Texas tortoise *Gopherus berlandieri*

Terrestrial: Open scrub woods, arid brush, lomas, grass-cactus association; often in areas with sandy well-drained soils. When inactive occupies shallow depressions dug at base of bush or cactus; sometimes in underground burrow or under object. Eggs are laid in nests dug in soil near or under bushes.

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

western box turtle *Terrapene ornata*

Terrestrial: 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.

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

western hognose snake *Heterodon nasicus*

Terrestrial: Shortgrass or mixed grass prairie, with gravel or sandy soils. Often found associated with draws, floodplains, and more mesic habitats within the arid landscape. Frequently occurs in shrub encroached grasslands.

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

CAMERON COUNTY

REPTILES

western massasauga *Sistrurus tergeminus*

Terrestrial: Shortgrass or mixed grass prairie, with gravel or sandy soils. Often found associated with draws, floodplains, and more mesic habitats within the arid landscape. Frequently occurs in shrub encroached grasslands.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S3

PLANTS

Bailey's ballmoss *Tillandsia baileyi*

Epiphytic on various trees and tall shrubs, perhaps most common in mottes of Live oak on vegtated dunes and flats in coastal portions of the South Texas Sand Sheet, but also on evergreen sub-tropical woodlands along resacas in the Lower Rio Grande Valley; flowering (February-)April-May, but conspicuous throughout the year

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

Buckley's spiderwort *Tradescantia buckleyi*

Occurs on sandy loam or clay soils in grasslands or shrublands underlain by the Beaumount Formation.

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

dune dalea *Dalea austrotexana*

Restricted to deep loose sands of active and somewhat stabilized dunes in South Texas (Carr 2015).

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

Green Island echeandia *Echeandia texensis*

On somewhat saline clays of lomas along the Gulf Coast near the mouth of Rio Grande, a habitat shared with E. chandleri; both species grow in areas dominated by herbaceous species with scattered brush and stunted trees, or in grassy openings in subtropical thorn shrublands; flowers April, June, and November, and likely in other months, as well

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

Greenman's bluet *Houstonia parviflora*

Grass pastures. Feb- Apr. (Correll and Johnston 1970).

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

CAMERON COUNTY

PLANTS

Jones's rainlilly *Cooperia jonesii*

Hardpan swales and other seasonally moist low areas (Jones 1977). Flowering mid summer--early fall (Jul--Oct) (Flagg, Smith & Flory 2002).

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

large selenia *Selenia grandis*

Occurs in seasonally wet clayey soils in open areas; Annual; Flowering Jan-April; Fruiting Feb-April

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

lila de los Llanos *Echeandia chandleri*

Most commonly encountered among shrubs or in grassy openings in subtropical thorn shrublands on somewhat saline clays of lomas along Gulf Coast near mouth of Rio Grande; also observed in a few upland coastal prairie remnants on clay soils over the Beaumont Formation at inland sites well to the north and along railroad right-of-ways and cemeteries; flowering (May-) September-December, fruiting October-December

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

marsh-elder dodder *Cuscuta attenuata*

Parasitizes a particular sumpweed (Iva annua) almost exclusively as well as ragweed and heath aster. Host plants typically found in open, disturbed habitats like fallow fields and creek bottomlands; Annual; Flowering late summer through October

Federal Status: State Status: SGCN: Y
Endemic: N Global Rank: G1G3 State Rank: S2

Mexican mud-plantain *Heteranthera mexicana*

Wet clayey soils of resacas and ephemeral wetlands in South Texas and along margins of playas in the Panhandle; flowering June-December, only after sufficient rainfall

Federal Status: State Status: SGCN: Y
Endemic: N Global Rank: G2G3 State Rank: S1

plains gumweed *Grindelia oolepis*

Coastal prairies on heavy clay (blackland) soils, often in depressional areas, sometimes persisting in areas where management (mowing) may maintain or mimic natural prairie disturbance regimes; crawfish lands; on nearly level Victoria clay, Edroy clay, claypan, possibly Greta within Orelia fine sandy loam over the Beaumont Formation, and Harlingen clay; roadsides, railroad rights-of-ways, vacant lots in urban areas, cemeteries; flowering April-December

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

CAMERON COUNTY

PLANTS

Runyon's cory cactus *Coryphantha macromeris var. runyonii*

Gravelly to sandy or clayey, calcareous, sometimes gypsiferous or saline soils, often over the Catahoula and Frio formations, on gentle hills and slopes to the flats between, at elevations ranging from 10 to 150 m (30 to 500 ft); ?late spring or early summer, November, fruit has been collected in August

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5T2T3	State Rank: S2S3

Runyon's water-willow *Justicia runyonii*

Margins of and openings within subtropical woodlands or thorn shrublands on calcareous, alluvial, silty or clayey soils derived from Holocene silt and sand floodplain deposits of the Rio Grande Delta; can be common in narow openings such as those provided by trails through dense ebony woodlands and is sometimes restricted to microdepressions; flowering (July-) September-November

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

Shinner's rocket *Thelypodiopsis shinnersii*

Mostly along margins of Tamaulipan thornscrub on clay soils of the Rio Grande Delta, including lomas near the mouth of the river; Tamaulipas, Mexico specimens are from mountains, with no further detail; flowering mostly March-April, with one collection in December

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

Small's rainlily *Zephyranthes smallii*

Open low fields, swales and ditches on sandy loam. Flowering early fall (Sep--Oct) (Flagg, Smith & Flory 2002).

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

South Texas ambrosia *Ambrosia cheiranthifolia*

Grasslands and mesquite-dominated shrublands on various soils ranging from heavy clays to lighter textured sandy loams, mostly over the Beaumont Formation on the Coastal Plain; in modified unplowed sites such as railroad and highway right-of-ways, cemeteries, mowed fields, erosional areas along small creeks; Perennial; Flowering July-November

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

CAMERON COUNTY

PLANTS

South Texas spikesedge *Eleocharis austrotexana*

Occurring in miscellaneous wetlands at scattered locations on the coastal plain; Perennial; Flowering/Fruiting Sept

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

St. Joseph's staff *Manfreda longiflora*

Thorn shrublands on clays and loams with various concentrations of salt, caliche, sand, and gravel; rossettes are often obscured by low shrubs; flowering September-October

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

star cactus *Astrophytum asterias*

Gravelly clays or loams, possibly of the Catarina Series (deep, droughty, saline clays), over the Catahoula and Frio formations, on gentle slopes and flats in sparsely vegetated openings between shrub thickets within mesquite grasslands or mesquite-blackbrush thorn shrublands; plants sink into or below ground during dry periods; flowering from mid March-May, may also flower in warmer months after sufficient rainfall, flowers most reliably in early April; fruiting mid April-June

Federal Status: LE	State Status: E	SGCN: Y
Endemic: N	Global Rank: G1G2	State Rank: S1

Texas ayenia *Ayenia limitaris*

Subtropical thorn woodland or tall shrubland on loamy soils of the Rio Grande Delta; known site soils include well-drained, calcareous, sandy clay loam (Hidalgo Series) and neutral to moderately alkaline, fine sandy loam (Willacy Series); also under or among taller shrubs in thorn woodland/thorn shrubland; flowering throughout the year with sufficient rainfall

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

Texas milk vetch *Astragalus reflexus*

Grasslands, prairies, and roadsides on calcareous and clay substrates; Annual; Flowering Feb-June; Fruiting April-June

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

Texas stonecrop *Lenophyllum texanum*

Found in shrublands on clay dunes (lomas) at the mouth of the Rio Grande and on xeric calcareous rock outcrops at scattered inland sites; Perennial; Flowering/Fruiting Nov-Feb

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

CAMERON COUNTY

PLANTS

Texas willkommia *Willkommia texana var. texana*

Mostly in sparsely vegetated shortgrass patches within taller prairies on alkaline or saline soils on the Coastal Plain (Carr 2015).

Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3G4T3	State Rank: S3

Vasey's adelia *Adelia vaseyi*

Mostly subtropical evergreen/deciduous woodlands on loamy soils of Rio Grande Delta, but occassionally in shrublands on more xeric sandy to gravelly upland sites; Perennial; Flowering January-June

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

Wright's trichocoronis *Trichocoronis wrightii var. wrightii*

Most records from Texas are historical, perhaps indicating a decline as a result of alteration of wetland habitats; Annual; Flowering Feb-Oct; Fruiting Feb-Sept

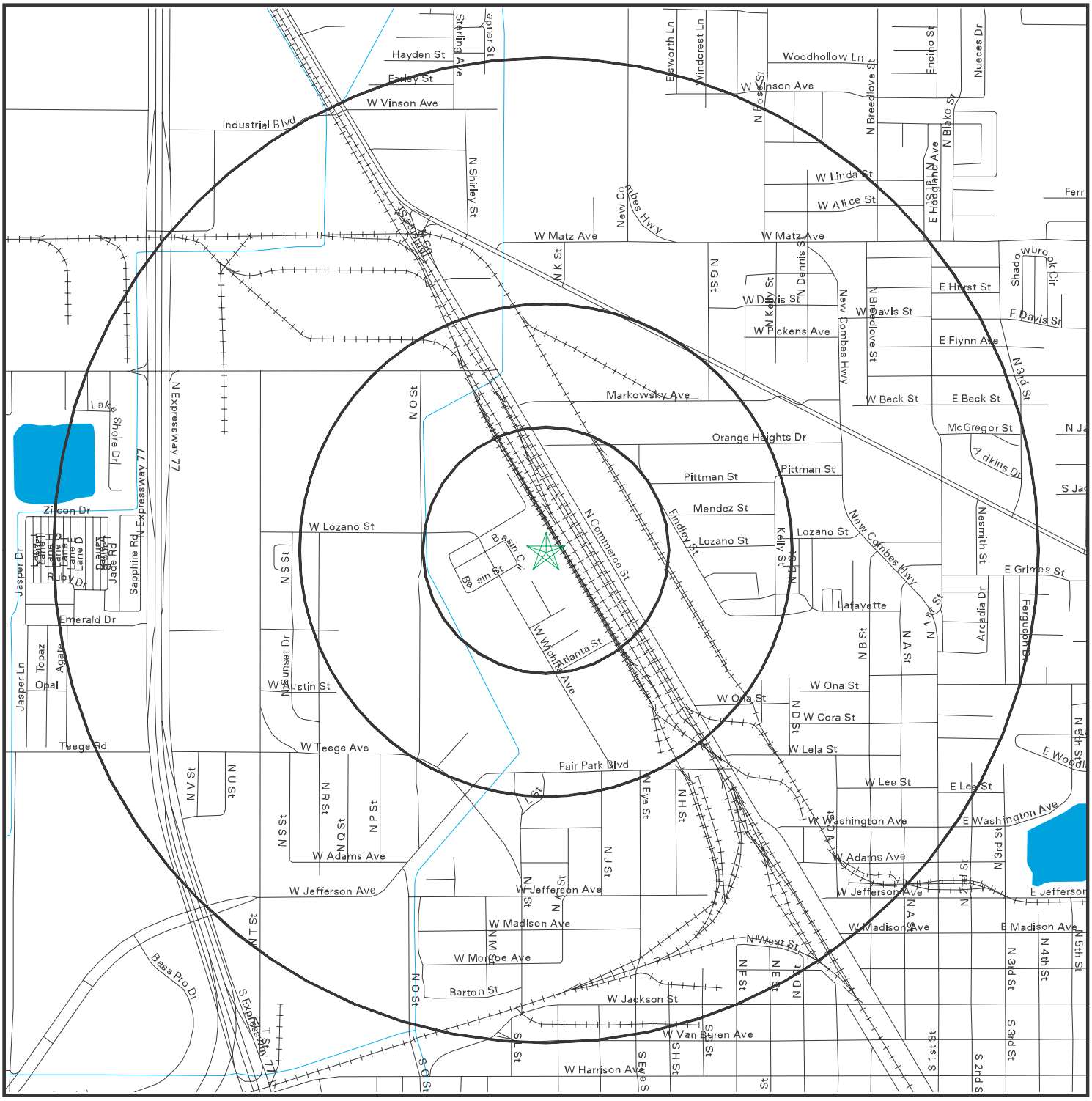
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4T3	State Rank: S2

yellow-flowered alicoche *Echinocereus papillosus*

Under shrubs or in open areas on various substrates; Perennial; Flowering Jan-April.

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

Historic Sites Map



- Target Property
- Streets
- County Boundary
- Waterways
- Water
- Historic Sites
- Federal Historic Areas
- State Historic Areas
- US Indian Reservations
- Scenic Trail

SITE NAME:	Harlingen Undeveloped Land	CLIENT:	Terracon Consulting
ADDRESS:	1335 West Memphis Street Harlingen TX 78550	CONTACT:	Joe Garcia
LAT/LONG:	26.206143 / 97.708447	INQUIRY #:	7427688.10s
		DATE:	August 25, 2023

APPENDIX E

CREDENTIALS

LEE GARRETT, P.G., C.A.P.M.
PRINCIPAL / ENVIRONMENTAL DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Garrett has over 25 years of experience in the investigation, remediation, and closure of contaminated sites. As the Department Manager of Terracon's San Antonio office, Mr. Garrett is responsible for the performance of Phase I and II Environmental Site Assessments, as well as the performance of response actions necessary to secure regulatory closure of affected properties. Mr. Garrett has worked closely with the regulatory community and has been able to secure regulatory closure of numerous contaminated sites. He has a good understanding of the regulations in Texas and has secured closure of sites for his clients under the Petroleum Storage Tank (PST) Program, the Voluntary Cleanup Program (VCP), the Innocent Owner/Operator Program (IOP) and the Corrective Action Section (CAS) of the Texas Commission on Environmental Quality. Mr. Garrett has worked on sites in the Railroad Commission of Texas (RRC) VCP and received a Certificate of Completion for one of the first sites closed through the RRC VCP. Mr. Garrett has experience working with private and public sector clients and has managed long-term projects and projects that require expedited evaluation of complex sites. Mr. Garrett has experience in the cleanup of sites affected with chlorinated solvents, petroleum hydrocarbons, pesticides/herbicides and inorganic metals at industrial, commercial, retail and oil and gas facilities throughout Texas. Mr. Garrett is a two-term past President of the Texas Association of Environmental Professionals (TAEP).

Education
Bachelor of Science, Geology, 1983, University of Texas at Austin

Registrations
Professional Geoscientist: Texas, No. 2971

Registered CAPM, No.485

Affiliations
Texas Association of Professional Geoscientists

Texas Association Environmental Professionals, President 2005 and 2006

South Texas Geological Society

Work History
Terracon Consultants Inc., Principal, 2000-Present

Geomatrix Consultants, Inc., Senior Project Manager, 1996-2000

Southwestern Laboratories/Maxim Technologies, Senior Project Manager, 1991-1996

IT Corporation, Field Geologist, 1989-1991

PROJECT EXPERIENCE

Investigation/Characterization of Commercial Site – San Antonio, Texas

Served as Project Manager for a commercial site located in San Antonio, Texas. The site had been affected by petroleum hydrocarbons and metals during its operation as a former auto repair facility. An affected property assessment was conducted at the site to characterize the magnitude and extent of affected soil and to evaluate if groundwater had been impacted. An Affected Property Assessment Report (APAR) was prepared for the site and site-specific Tier 2 protective concentration levels (PCLs) were calculated for the site. Based on the results of the investigation, the Texas Commission on Environmental Quality (TCEQ) issued a "no further action" letter for the site.

Investigation/Characterization of Commercial Site – New Braunfels, Texas

Served as Senior Project Manager for a commercial site located New Braunfels, Texas. The site was being purchased for redevelopment and as part of the due diligence process, a Phase I Environmental Site Assessment (ESA) was conducted for the site. The ESA identified the presence of an onsite dry cleaner and an offsite leaking petroleum storage tank (LPST) facility as recognized environmental conditions (RECs) and recommended assessment of soil and groundwater for the presence of dry cleaning solvents and petroleum hydrocarbons. The results of the investigation identified chlorinated volatile organic compounds (VOCs) typically associated with dry cleaning solvents and gasoline in soil and groundwater at low concentrations. A request was submitted to the TCEQ for a no further action letter for the chlorinated VOCs and the TCEQ concurred and issued a no further action letter for the site. To address the VOCs associated with gasoline that originated from the offsite LPST facility, an application was submitted to the Innocent Owner/Operator Program (IOP). Upon review of the application, the TCEQ issued a IOP Certificate for the site that

documented that the site owner was not responsible for the VOCs associated with gasoline that were identified in soil and groundwater. The real estate transaction was then closed.

Brownfield Site Investigation – Houston, Texas

Served as Project Manager for a Brownfields site located near downtown Houston that was being developed for residential use. The site was formerly occupied by a railroad facility and other industrial facilities, including an auto repair facility, a leaking petroleum storage tank (LPST) facility and an oil storage facility. Assessment of soil and groundwater was conducted in an expedited manner and the results identified impact to shallow soil at levels exceeding TCEQ cleanup levels. A response action work plan (RAWP) was submitted to and approved by the TCEQ Voluntary Cleanup Program (VCP). The RAWP included excavation and offsite disposal of affected soil, and was implemented in an expedited manner. The TCEQ VCP closed the site, and site was developed on schedule.

Investigation/Characterization of Industrial Site – Channelview, Texas

Served as the Project Manager for the investigation of a site under enforcement from the TCEQ Industrial and Hazardous Waste Division. Investigative responsibilities included installation of soil borings; single-, double- and triple-cased monitoring wells; performance of aquifer testing on confined and unconfined aquifers; and use of innovative geophysical techniques to delineate subsurface impact involving adsorbed, dissolved and non-aqueous phase hydrocarbons. Interim corrective actions included removal and treatment of impacted groundwater, dense non-aqueous liquids and light non-aqueous liquids. Completed a baseline risk assessment to evaluate potential risks to the sensitive environment adjacent to the site and general public. Submitted a Remediation Investigation Report (RIR) and a Baseline Risk Assessment Report (BRAR) to the TCEQ.

Multiple LPST Sites, Port of Houston Authority – Houston, Texas

Served as Project Manager for the investigation and closure of multiple LPST facilities at the Port of Houston. Responsibilities included the preparation and implementation of scopes of work for the delineation of soil and groundwater affected with petroleum hydrocarbons and the preparation of a risk assessment to evaluate site closure. At several of the sites, phase-separated hydrocarbons (PSH) was identified and PSH recovery was initiated. A groundwater monitoring program was established to evaluation plume stability at site where groundwater impact was discovered. The work was completed in a manner that allowed the Port of Houston Authority to recover approximately 90 percent of the cost of the work from the Petroleum Storage Tank Remediation (PSTR) fund administered by the TCEQ.

Large Scale Underground Fuel Dispensing System, Intercontinental Airport – Houston, Texas

Served as Project Manager for the investigation of petroleum hydrocarbon impacted soils at the Bush Intercontinental Airport. Soil was affected with petroleum hydrocarbons as a result of multiple releases from the fuel distribution system. The project required the removal of affected soil and the replacement of valves in the distribution system. Mr. Garrett was responsible for the development of a Soil Sampling Plan and a Soil Management Plan. Mr. Garrett also provided oversight of the general contractor including a review and approval of the contractor's Health and Safety Plan. Mr. Garrett was responsible for interfacing with City of Houston Airport personnel, the contractor and TCEQ personnel. The project required the removal and disposal of approximately 2,000 cubic yards of affected soil and the successful removal of asbestos containing pipe rap from the piping system to facilitate the replacement of the valves.

Former Oil/Gas Exploration/Production Facility – Humble Texas

Mr. Garrett served as the Project Manager for the investigation and closure of a site affected with petroleum hydrocarbons released from a tank battery operated at an oil and gas exploration and production (E&P) facility in Humble, Texas. Soil and groundwater at the site had been affected with petroleum hydrocarbons released from the tank battery and from flow lines that traversed the site from multiple onsite oil and gas wells. The site was entered into the Railroad Commission of Texas (RRC) Voluntary Cleanup Program (VCP). The extent of affected soil and groundwater were determined and groundwater plume stability was demonstrated. The site received closure through the VCP and was developed on schedule as a retail shopping center.

Additional Training

- Migration Assessment & Remediation of Non-Aqueous Phase Liquids, The National Ground Water Association, June 1994
- Risk-Based Assessment Workshop, Texas Natural Resource Conservation Commission, 1996
- Risk-Based Corrective Action: the ASTM Guidelines for Toxicity and Exposure Assessment, Risk Characterization and Fat and Transport Processes and Modeling, Rice University, 1996
- Applied Environmental Statistics, Darcy Environmental Group, Inc., 2001
- Designin Air-Based in Situ Soi and Groundwater Remediation Systems, Universtiy of Wisconsin-Madison College of Engineering, 1997
- LPST Corrective Action Project Manager Refresher Training, Texas A&M University System, 1998
- Intrinsic Remediation for Fuel-Hydrocarbon Contaminated Sites, Texas A&M University System, 1999
- Texas Risk Reduction Program Module 1, 2, & 3, The University of Houston, 2000
- Essentials of Risk Management and Profitability for Project Managers, ASFE, 2002
- TRRP Guidance and Policy: Recent Developments, Groundwater Services, Inc., 2002
- Geophysical Applications for Environmental Assessments, Enviornmental Geophysics Assoc., 2002
- Introduction to Groundwater Hydrogeology, Texas A&M University System, 2003
- Transitioning the LPST Program to the Texas Risk Reduction Program, TCEQ, 2003
- TRRP Guidance and Policy: Recent Developments, Groundwater Services, Inc., 2005
- Integrated Site Remediation and Gas Vapor Intrusion, Regenesis, 2011
- Developments in Vapor Intrusion: Regulations, Mitigation and Sampling, Land Science Technologies, 2012

Presentations

- Transitioning to the Texas Risk Reduction Program, Tank Owners Association, 1999
- An Overview of Environmental Due Diligence – Phase I & II Site Assessments, The City of Houston, 2008
- In Situ Chemical Oxidation as a Remedial Approach, San Antonio Bar Association, 2010
- Environmental Due Diligence, Texas Association of Environmental Professionals, 2015

JOSE A. GARCIA III

ENVIRONMENTAL STAFF SCIENTIST

244 CASH ST. SAN BENITO, TX, (956) 456-4066, jagarcia3@terracon.com

PROFESSIONAL EXPERIENCE

Graduate with bachelor's degree in Environmental Science with a concentration in Biology. Knowledgeable in environmental sustainability, agroecology, wetland and marine ecosystems. Mr. Garcia has direct experience in environmental consulting, wetland delineations, soil and groundwater sampling, groundwater monitoring, leaking petroleum storage tank (LPST) site assessments, storm water pollution prevention plan (SWPPP) inspections and fieldwork related to municipal solid waste landfill. Mr. Garcia has performed phase I environmental site assessment (ESA-I) investigations, subsurface soil and groundwater ESA-II investigations, landfill leachate sampling, landfill methane monitoring, landfill detection monitoring (groundwater purging and sampling), and field work for LPST program sites. Has training for Asbestos Inspection, 40-hour HAZWOPER certified and 30-hour OSHA certified. Has experience giving presentations to small groups of individuals, knowledgeable with local wildlife, mechanically inclined, knowledgeable with GIS systems, knowledgeable in excel, word, and power point. Has field work experience in the realm of agroecology. Through research and field work has gained knowledge in collecting and measuring soil bulk density samples and aggregate stability samples, soil moisture content readings with the use of an Extech soil moisture reader and is familiar with conducting water infiltration and aggregate stability tests with the use of a Cornell sprinkle infiltrometer. Abilities also include the knowledge to operate a vibracore auger. Mr. Garcia is familiar with remote sensing systems and can also pilot a drone for the use of remote sensing.

PROJECT EXPERIENCE

City of Brownsville Municipal Solid Waste Landfill, – Brownsville, TX

Performed semi-annual groundwater sampling events and data analysis of 32 monitoring wells and two outfalls at landfill. Additional work included methane and leachate sampling, became familiar with storm water drainage procedures and was given the opportunity to develop a power point slideshow for the Brownsville landfill in reference to training about the proper procedures of how to handle contaminants in storm water drainage.

Palo Alto Battlefield National Historic Park– Brownsville, TX

Used ACOE Regional Supplement for wetland determination methods for the proposed construction and expansion of a bike trail that runs through the historic park at 7200 Paredes Line Road, Brownsville, Texas; was also tasked to identify endangered species and their habitats on federally owned property.

Education

Bachelor of Science; Environmental Science with a concentration in Biology; The University of Texas Rio Grande Valley, 2019

Certifications

40-Hour OSHA Hazardous Waste Operations & Emergency Response

30-Hour OHSA Construction Safety

Inspector of Buildings for Asbestos

Work History

Terracon Consultants, Inc. – Assistant Staff Scientist, December 2019-Present

Ambiotec Environmental Consultants – Full-Time Internship, June 2018-August 2018

RGV-03 Border Wall Project – Mission, TX

On-site environmental manager for Section RGV-03 Border Wall Project. Primary consultant for EPP plan and SWP3 plan. Conducted post-storm and monthly SWP3 inspections. Performed daily inspections of entire site and generated daily reports noting construction activities and any deficiencies against both the EPP plan and SWP3 plan.

Environmental Site Assessments & Characterizations

Assisted in Phase I ESA and Phase II Environmental Site Characterizations, performed in general accordance with industry recognized ASTM environmental assessment guidelines. Project responsibilities include site inspections, review of historical information, review of state and federal databases, soil and groundwater sampling, review of lab analyses, and report documentation.

Communication

Has given research presentations in two science symposiums.

APPENDIX F

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term / Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g., California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

Description of Selected General Terms and Acronyms

Term / Acronym	Description
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.
ILP	Innocent Landowner/Operator Program

Description of Selected General Terms and Acronyms

Term / Acronym	Description
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.

Description of Selected General Terms and Acronyms

Term / Acronym	Description
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor “action level” concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal (‘cradle to grave”). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/ TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing “corrective action”. A “corrective action” order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/ TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.

Description of Selected General Terms and Acronyms

Term / Acronym	Description
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service

Description of Selected General Terms and Acronyms

Term/Acronym	Description
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.