



Phase I Environmental Site Assessment – Laguna Shores/Redhead Pond Site Corpus Christi, Nueces County, Texas

December 2020

Prepared for City of Corpus Christi

Hanson Professional Services Inc. Project No. 19L0247A02

Professional Statement and Signature Page

Description of Subject Site: Laguna Shores/Redhead Pond Site
Corpus Christi, Nueces County, Texas

Environmental Professional Statement:

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312." These inquiries are presented in the report entitled "Phase I Environmental Site Assessment – Laguna Shores/Redhead Pond Site, Corpus Christi, Nueces County, Texas," issued December 2020.

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Signature

12/1/2020

Date

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Executive Summary

Hanson Professional Services Inc. (Hanson) conducted a Phase I Environmental Site Assessment (ESA) of 24.878 acres located to the southwest of the intersection of Laguna Shores Road and Hustlin' Hornet Drive in Corpus Christi, Nueces County, Texas. The ESA was performed in general accordance with the requirements for the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13.

The subject property consists of eight tracts of land in the Flour Bluff neighborhood of Corpus Christi, Texas. The subject property is undeveloped land and water (ponds and Laguna Madre). No structures or improvements were observed on the subject property, other than fencing and bollards. To the north of the subject property, Hustlin' Hornet Drive and undeveloped land with a pond are present. To the east, reconstruction of Laguna Shores Road is occurring and single family homes and the Laguna Madre are present. To the south, the Redhead Pond Wildlife Management Area, single family homes, Coastal Bend Small Breed Rescue, and the Laguna Shores Pet Salon are present. To the west, Duncan Cemetery, Debra Lane, single family homes, and Flour Bluff Junior High School are present.

Information pertaining to potential environmental liabilities resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson through GeoSearch. GeoSearch's search of available government records did not identify the subject property in any databases. Four sites were identified within the search radius beyond the subject property. One of the identified sites, a closed unauthorized landfill, is considered to be a Recognized Environmental Condition (REC).

GeoSearch's Oil and Gas Report identified one oil well on the subject property and eleven additional oil or gas wells within 0.5 miles of the subject property. Railroad Commission of Texas (RRC) records indicate that the well on the subject property was an oil well drilled in 1940 to a depth of 7,075 feet and was plugged in 1976. The casing was cut off five feet below ground and capped. Records showed that casinghead gas from the well was processed through the Flour Bluff Gas Plant (located approximately one mile north of subject property). Historical aerial and topographic maps from the 1950s through the 1970s show several aboveground storage tanks near the oil well on the subject property. RRC records indicate that no pipelines cross the subject property. Several abandoned natural gas gathering pipelines are present to the north of the east tract of the subject property.

Findings

Our review of site information and a property inspection revealed the following Recognized Environmental Conditions (RECs) in connection with the subject property:

On-Site RECs:

- *Possible Presence of Contamination from Past Oil and Gas Exploration* – One oil well is documented as being drilled on the northeast portion of the subject property in 1940 and plugged in 1976. In the past, at least 12 aboveground storage tanks and two pits appear to have been located in the northeast portion of the subject property. While no visible signs of contamination were observed during the site visit, activities related to historical oil and gas exploration may have caused contamination on the subject property.

Off-Site RECs:

- *Possible Presence of Contamination from Unauthorized Landfill* – An unauthorized closed landfill is documented as being present approximately 800 feet southwest of the subject property. The landfill was identified as accepting household and construction demolition debris. The landfill was used for an unknown length of time and was closed in 1979. Use of nearby land as an unauthorized landfill may have caused contamination on the subject property.

Recommendations

Due to the Recognized Environmental Conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

1. Introduction

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) on a 24.878 acre site located to the southwest of the intersection of Laguna Shores Road and Hustlin' Hornet Drive in Corpus Christi, Nueces County, Texas. The ESA was conducted for the City of Corpus Christi.

1.1. Purpose

The ESA was performed in general conformance with the requirements of the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527–13 unless specifically noted in the report. This Standard Practice was developed to address the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) in order to qualify for the innocent landowner's defense to CERCLA liability. 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. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, and a visual non-invasive reconnaissance of the subject property and adjoining properties.

1.2. Special Terms and Conditions

Hanson has performed this ESA for the City of Corpus Christi for the above stated purpose. This study may not contain sufficient information for other purposes or entities. Reference is made in this ESA to public records provided by an information source. No warranty, expressed or implied, is made as to the accuracy of those public records or the accuracy of the information source providing the public records.

1.3. General Limitations

The assessment of subsurface conditions at the subject property was beyond the scope of services for this ESA.

This report does not constitute a property condition assessment since it was prepared principally to address environmental issues. It does not constitute an asbestos inspection, lead based paint survey, mold inspection, or other specific type of environmental assessment tied directly to a specific local, state, or federal environmental regulatory program.

A chain of title search and interview were not performed for this Phase I Environmental Site Assessment.

1.4. Information Sources

The information pertaining to this ESA was obtained from the following sources:

Table 1-1 – Information Sources

1.	Company Name:	Nueces County Appraisal District
	Web Site Address:	http://www.ncadistrict.com
	Telephone Number:	(361) 881-9978
	Information Obtained:	Legal description
2.	Contact Name:	Scott Davis
	Title:	Account Representative
	Company Name:	GeoSearch
	Web Site Address:	http://www.geo-search.com/
	Telephone Number:	(888) 396-0042
	Information Obtained:	Aerial Photos, Historical Topographic Maps, City Directory Report, Fire Insurance Map Report, Radius Map Report, & Environmental Lien Search
3.	Company Name:	Railroad Commission of Texas
	Web Site Address:	http://gis2.rrc.state.tx.us/public/startit.htm
	Telephone Number:	(361) 242-3113
	Information Obtained:	Oil and gas exploration and pipeline records
4.	Company Name:	Federal Emergency Management Agency
	Web Site Address:	https://msc.fema.gov/portal
	Telephone Number:	(877) 336-2627
	Information Obtained:	Floodplain map
5.	Company Name:	United States Department of Agriculture
	Web Site Address:	Websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
	Telephone Number:	(254) 742-9857
	Information Obtained:	Soil information
6.	Company Name:	Texas Commission on Environmental Quality
	Web Site Address:	http://www15.tceq.texas.gov
	Telephone Number:	(512) 239-1000
	Information Obtained:	Central Registry information
7.	Company Name:	City of Corpus Christi
	Web Site Address:	https://corpus.maps.arcgis.com/apps/webappviewer/index.html
	Information Obtained:	Utility location information

1.5. Qualifications Statement

Ms. Tara Ducrest, C.F.M., Environmental Scientist for Hanson, received a B.S. in Environmental Science with concentration in Chemistry in 2006 from Texas A&M University – Corpus Christi and a M.P.A. with an emphasis in Environmental Science in 2009 from Texas A&M University – Corpus Christi. Ms. Ducrest has performed numerous environmental site assessments on industrial, commercial, residential, and undeveloped properties.

2. Property Description

2.1. Location

The subject property is located southwest of the intersection of Hustlin' Hornet Drive and Laguna Shores Road in Corpus Christi, Nueces County, Texas. The center of the subject property lies at approximately 27.642897° north latitude and 97.286682° west longitude. The Subject Property Location Map and Subject Property Detail Map are provided as Figures 1 and 2.

2.2. Legal Description

Based on information from Nueces County Appraisal District, the subject property consists of eight tracts of land. The legal descriptions are listed below:

Tract Number	Property ID	Legal Description
1	233074	Flour Bluff & Enc Frm Gdn Tract 15.909 Acs out of Lts 19 20 21 & 24 Sec 54
2	543377	Flour Bluff & Enc Frm Gdn Tract .508 Ac out of Lt 24 Sec 54
3	233091	Flour Bluff & Enc Frm Gdn Tract 1 Ac out of Lt 20 Sec 54
4	233077	Flour Bluff & Enc Frm Gdn Tract .50 Ac out of Lt 20 Sec 54
5	233078	Flour Bluff & Enc Frm Gdn Tract .75 Ac out of Lt 20 Sec 54
6	233068	Flour Bluff & Enc Frm Gdn Tract 3.72 Acs out of Lt 19 Sec 54
7	233073	Flour Bluff & Enc Frm Gdn Tract 2.044 Acs out of Lts 20 & 21 Sec 54
8	543378	Flour Bluff & Enc Frm Gdn Tract .447 Ac out of Lt 19 Sec 54

2.3. Property and Vicinity Characteristics

Physical feature information pertaining to the subject property was provided by GeoSearch. Maps depicting floodplains, wetlands, soil types, and geological information are included in the Physical Settings Report in Exhibit A.

The elevation of the subject property varies from sea level to approximately 11 feet above sea level, with sloping towards the ponds on the subject property. Federal Emergency Management Agency (FEMA) flood data was reviewed and it was determined that the majority of the subject property is currently located in Zone V22, areas of 100-year coastal flood with velocity (wave action), with a base flood elevation of 12 feet. The northwest portion of the subject property is located in Zone A18, areas of 100-year flood with a base flood elevation of 10 feet.

National Wetlands Inventory (NWI) data shows one estuarine and marine deepwater wetland habitat and one freshwater pond habitat on the subject property.

Soils of the subject property consist of Galveston and Mustang fine sands (occasionally flooded), Nueces fine sand, and tidal flats (occasionally ponded).

The geologic information for the subject property lists the rock stratigraphic unit under geology symbol Qbb. Qbb geology symbol represents barrier island deposits.

2.4. Easements and Right of Ways

Electric distribution lines are present along the eastern boundary of the north tracts of the subject property. A storm drain inlet is present near the northwest corner of the north tract. The City of Corpus Christi GIS Viewer shows wastewater mains running along the eastern boundary of the north tracts and the western boundary of the south tract of the subject property. Two boxes associated with buried communication cables was observed along the northern subject property boundary.

2.5. Title Review

A chain of title search was not performed for this property.

2.6. Current Uses of Subject Property

The subject property is currently undeveloped land.

2.7. Past Uses of Subject Property

The subject property appears to have been undeveloped land except for the northeast portion which appears to have been used for oil and gas exploration. One oil well and at least 12 aboveground storage tanks appear to have been present on the subject property from the 1950s through 1970s.

2.8. Current Uses of Adjacent and Surrounding Properties

The following table lists the current uses of the adjacent and surrounding properties:

Table 2-1 – Current Uses of Surrounding Properties

North	East	South	West
Hustlin' Hornet Drive and undeveloped land with a pond	Laguna Shores Road, single family homes, undeveloped land, and Laguna Madre	Redhead Pond Wildlife Management Area, animal rescue shelter, pet salon, and single family homes	Cemetery, Debra Lane, Flour Bluff Junior High School, and single family homes

2.9. Past Uses of Adjacent and Surrounding Properties

The following table lists the past uses of the adjacent and surrounding properties determined by review of available historical aerial photographs, fire insurance maps, and city directories:

Table 2-2 – Past Uses of Surrounding Properties

North	East	South	West
Hustlin' Hornet Drive, undeveloped land with a pond, and oil and gas exploration	Laguna Shores Road, single family homes, undeveloped land, oil and gas exploration, and Laguna Madre	Undeveloped land with a pond, animal rescue shelter, pet salon, and single family homes	Cemetery, Debra Lane, Flour Bluff Junior High School, and single family homes

3. Record Review

3.1. General

Public and private entities are required to comply with applicable federal and state environmental regulations. The primary regulations, which are pertinent to this assessment, are the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA). Reasonably obtainable agency records were reviewed in order to determine facilities, which might present a potential to release hazardous substances, or petroleum products, which may affect the subject property.

3.2. Regulatory Database Search

Information pertaining to potential environmental concerns resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson Professional Services Inc., through GeoSearch. This information was prepared to meet the appropriate search distances designated in ASTM E 1527-13, Section 8.2.1 from the approximate boundary of the subject property. The following table identifies the ASTM appropriate minimum search distances.

Table 3-1 – Minimum ASTM Search Distances

Standard Environmental Record Sources	ASTM Minimum Search Distances (Miles)
Federal NPL Site List	1.0
Federal Delisted NPL Site List	0.5
Federal CERCLIS List	0.5
Federal CERCLIS NFRAP Site List	0.5
Federal RCRA CORRACTS Facilities List	1.0
Federal RCRA non-CORRACTS TSD Facilities List	0.5
Federal RCRA Generators List	Property and Adjoining Properties Only
Federal Institutional Control/Engineering Control Registries	Property and Adjoining Properties Only
Federal ERNS List	Property Only
State/Tribal Equivalent NPL	1.0
State/Tribal Equivalent CERCLIS	0.5
State/Tribal Landfill and/or Solid Waste Disposal Site Lists	0.5
State/Tribal Leaking Storage Tank Lists	0.5
State/Tribal Registered Storage Tank Lists	Property and Adjoining Properties Only
State and Tribal Institutional Control/Engineering Control Registries	Property and Adjoining Properties Only
State/Tribal Voluntary Cleanup Sites	0.5
State/Tribal Brownfield Sites	0.5

GeoSearch provided information available through the following federal, state, local, tribal, and proprietary databases.

Table 3-2 – Databases/Records Searched

Federal Listings	
Acronym	Database
AIRSAFS	Aerometric Information Retrieval System / Air Facility Subsystem
BRS	Biennial Reporting System
CDL	Clandestine Drug Laboratory Locations
DOCKETS	EPA Docket Data
EC	Federal Engineering Institutional Control Sites
ERNSTX	Emergency Response Notification System
FRSTX	Facility Registry System
HMIRSR06	Hazardous Materials Incident Reporting System
ICIS	Integrated Compliance Information System (Formerly Dockets)
ICISNPDES	Integrated Compliance Information System National Pollutant Discharge Elimination System
LUCIS	Land Use Control Information System
MLTS	Material Licensing Tracking System
NPDESR06	National Pollutant Discharge Elimination System
PADS	PCB Activity Database System
PCSR06	Permit Compliance System
RCRASC	RCRA Sites With Controls
SFLIENS	CERCLIS Liens
SSTS	Section Seven Tracking System
TRI	Toxics Release Inventory
TSCA	Toxic Substance Control Act Inventory
NLRRCRAG	No Longer Regulated RCRA Generator Facilities
RCRAGR06	Resource Conservation & Recovery Act - Generator Facilities
RCRANGR06	Resource Conservation & Recovery Act - Nongenerator Facilities
HISTPST	Historical Gas Stations
BF	Brownfields Management System
CERCLIS	Comprehensive Environmental Response, Compensation & Liability Information System
DNPL	Delisted National Priorities List
NFRAP	No Further Remedial Action Planned Sites
NLRRCRAT	No Longer Regulated RCRA Non-CORRACTS TSD Facilities
ODI	Open Dump Inventory
RCRAT	Resource Conservation & Recovery Act - Treatment, Storage & Disposal Facilities
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
NLRRCRAC	No Longer Regulated RCRA Corrective Action Facilities
NPL	National Priorities List
PNPL	Proposed National Priorities List

RCRAC	Resource Conservation & Recovery Act - Corrective Action Facilities
RCRASUBC	Resource Conservation & Recovery Act - Subject To Corrective Action Facilities
RODS	Record of Decision System
State (TX) Listings	
GWCC	Groundwater Contamination Cases
HISTGWCC	Historic Groundwater Contamination Cases
LIENS	TCEQ Liens
MSD	Municipal Setting Designations
NOV	Notice of Violations
SIEC01	State Institutional/Engineering Control Sites
SPILLS	Spills Listing
TIERII	Tier II Chemical Reporting Program Facilities
DCR	Dry Cleaner Registration Database
IHW	Industrial And Hazardous Waste Sites
PIHW	Permitted Industrial Hazardous Waste Sites
PST	Petroleum Storage Tanks
APAR	Affected Property Assessment Reports
BSA	Brownfields Site Assessments
CALF	Closed & Abandoned Landfill Inventory
DCRPS	Dry Cleaner Remediation Program Sites
IOP	Innocent Owner / Operator Database
LPST	Leaking Petroleum Storage Tanks
MSWLF	Municipal Solid Waste Landfill Sites
RRCVCP	Railroad Commission VCP And Brownfield Sites
RWS	Radioactive Waste Sites
VCP	Voluntary Cleanup Program Sites
WMRF	Recycling Facilities
IHWCA	Industrial And Hazardous Waste Corrective Action Sites
SF	State Superfund Sites
Tribal Listings	
USTR06	Underground Storage Tanks On Tribal Lands
LUSTR06	Leaking Underground Storage Tanks On Tribal Lands
ODINDIAN	Open Dump Inventory On Tribal Lands
INDIANRES	Indian Reservations

GeoSearch's regulatory database report is provided in Exhibit B. GeoSearch's search of available government records did not identify the subject property in any databases. Four sites were identified within the search radius beyond the subject property. Proximity and findings are summarized in the table below. The status of the identified sites in relation to the subject property as Recognized Environmental Conditions (RECs) is also shown.

Table 3-3 – Database Information Summary

Site Name and Address	Location	Database	Findings	REC Status
Laguna Shores Road Rehabilitation 5000' South to Intersection of Laguna Shores Road, Corpus Christi, TX 78418	0.006 miles E	FRSTX	Site was identified as being identified in the TCEQ Central Registry. The Central Registry identified the site as having expired construction stormwater discharge permits associated with the road rehabilitation project.	Not a REC – proximity to site and physical setting
O'Donovitch 200 Block of Glen Oak St. in Flour Bluff, TX	0.149 miles WSW	CALF	Site was identified as being an unauthorized landfill that accepted household and construction demolition debris. The landfill closed in 1979. Records from the Coastal Bend Council of Governments concur that the site was an unpermitted landfill that was mostly used for construction debris and was in use for an unknown amount of time until September 1979.	REC
NGP Radio Range Northwest of intersection of Laguna Shores Road and Glenoak Drive, Corpus Christi, TX	0.215 miles SSW	FUDS	Site is identified as a formerly used defense site that had been used as a radio range.	Not a REC – proximity to site and physical setting
ALF Waldron Southwest of intersection of Waldron Road and Caribbean Drive	0.849 miles WSW	DOD	Site is identified as a Navy property owned by the Department of Defense.	Not a REC – proximity to site and physical setting

3.3. Historical Aerial Photographs

Historical aerial photographs of the subject property from GeoSearch can be found in Exhibit C.

3.3.1. Aerial Photograph – 1938 (1" = 500'±)

In the aerial photo from 1938, the subject property appears to be undeveloped land, with a water body that appears to be connected to the Laguna Madre to the east. There appears to be trails crossing the subject property. Surrounding land appears to be undeveloped. The water body on the subject property continues onto the property to the north. To the east, Laguna Madre can be seen. To the south, Redhead Pond and undeveloped land can be seen. To the west, undeveloped land is present.

3.3.2. Aerial Photograph – 1956 (1" = 500'±)

In the aerial photo from 1956, the subject property is still undeveloped. Roads can be seen on the west and south portions of the subject property. In the northeast portion of the subject property, there

appear to be 12 aboveground storage tanks and two oval shaped pits. The tanks and pits coincide with the known location of an oil well. To the north of the subject property, the pond, at least three aboveground storage tanks, and two pits can be seen. To the east, undeveloped land and Laguna Madre can be seen. To the south, single family homes, Redhead Pond, and undeveloped land can be seen. To the west, undeveloped land, a single family home, and what appears to be a pit associated with an oil well can be seen.

3.3.3. Aerial Photograph – 1961 (1" = 500'±)

In the aerial photo from 1961, the subject property is still undeveloped land. The roads, aboveground storage tanks, and pits on the subject property can still be seen. To the north of the subject property, the pond, aboveground storage tanks, and pits can still be seen. To the east, undeveloped land, single family homes, and Laguna Madre can be seen. To the south, single family homes, Redhead Pond, and undeveloped land can be seen. To the west, undeveloped land, single family homes, and the pit can be seen.

3.3.4. Aerial Photograph – 1967 (1" = 500'±)

In the aerial photo from 1967, the subject property appears similar to the previous photo. To the west, the pit is no longer visible and a new neighborhood of single family homes can be seen.

3.3.5. Aerial Photograph – 1975 (1" = 500'±)

In the aerial photo from 1975, the subject property is still undeveloped land. There now appears to only be one aboveground storage tank and no pits in the northeast portion of the subject property. To the north, the aboveground storage tanks are no longer distinguishable. The pits are still present. To the east, undeveloped land, more single family homes, and the Laguna Madre are visible. To the south, single family homes, Redhead Pond, and undeveloped land can be seen. To the west, undeveloped land and the single family homes can be seen.

3.3.6. Aerial Photograph – 1979 (1" = 500'±)

In the aerial photo from 1979, the subject property is still undeveloped land. The one aboveground storage tank can still be seen in the northeast portion of the subject property. To the north, the pits are no longer visible. To the east, undeveloped land, single family homes, and the Laguna Madre are visible. To the south, single family homes, Redhead Pond, and undeveloped land can be seen. To the west, undeveloped land and the single family homes can be seen.

3.3.7. Aerial Photograph – 1985 (1" = 500'±)

In the aerial photo from 1985, the subject property is still undeveloped land. The remaining aboveground storage tank can no longer be distinguished. To the north, Hustlin' Hornet Drive can be seen. To the west, Flour Bluff Junior High School can be seen.

3.3.8. Aerial Photograph – 1990 (1" = 500'±)

In the aerial photo from 1990, the subject property is still undeveloped land. Surrounding land appears similar to the previous photo.

3.3.9. Aerial Photograph – 1995 (1" = 500'±)

In the aerial photo from 1995, the subject property is still undeveloped land. The northeast portion of the subject property appears to have been cleared. Headstones at the Duncan Cemetery are visible. Surrounding land appears similar to the previous photo.

3.3.10. Aerial Photograph – 2002 (1" = 500'±)

In the aerial photo from 2002, the subject property is still undeveloped land. The northeast portion of the subject property appears to have revegetated. Surrounding land appears similar to the previous photo.

3.3.11. Aerial Photograph – 2004 (1" = 500'±)

In the aerial photo from 2004, the subject property appears similar to the previous photo. To the west, additional single family homes are present and a track has been built at Flour Bluff Junior High School.

3.3.12. Aerial Photograph – 2005 (1" = 500'±)

In the aerial photo from 2005, the subject property and surrounding land appears similar to the previous photo.

3.3.13. Aerial Photograph – 2006 (1" = 500'±)

In the aerial photo from 2006, the subject property and surrounding land appear similar to the previous photo.

3.3.14. Aerial Photograph – 2010 (1" = 500'±)

In the aerial photo from 2010, the subject property appears similar to the previous photo. To the west, additional single family homes have been built.

3.3.15. Aerial Photograph – 2012 (1" = 500'±)

In the aerial photo from 2012, the subject property and surrounding land appear similar to the previous photo.

3.3.16. Aerial Photograph – 2014 (1" = 500'±)

In the aerial photo from 2014, the subject property and surrounding land appear similar to the previous photo.

3.3.17. Aerial Photograph – 2016 (1" = 500'±)

In the aerial photo from 2016, the subject property and surrounding land appear similar to the previous photo.

3.3.18. Aerial Photograph – 2018 (1" = 500'±)

In the aerial photo from 2018, the subject property still appears to be undeveloped land. A new building has been constructed at Flour Bluff Junior High School to the west of the northwest portion of the subject property.

3.4. Historical Topographic Maps

Historical topographic maps provide information on the topography of the subject property and surrounding properties, and may contain information on oil and gas exploration and waste disposal. No signs of waste disposal are shown on the maps. The 1951 map shows an oil well on the northeast portion of the subject property. Oil wells can also be seen to the north and east of the subject property. On the 1968 and 1975 maps, the same oil well and four aboveground storage tanks are shown. The historical topographic maps are provided in Exhibit D.

3.5. City Directories

City Directory services were requested from GeoSearch to evaluate the past uses of the subject property and surrounding properties. No listings were identified for the subject property. Listings for surrounding properties on Laguna Shores Road show residences, the Coastal Bend Small Breed Rescue, and Laguna Shores Pet Salon. Listings for Hustlin' Hornet Drive include Flour Bluff Schools. The City Directory Report is provided in Exhibit E.

3.6. Fire Insurance Map Records

Historical fire insurance maps were requested from GeoSearch to evaluate the past uses and relevant characteristics of the subject property and surrounding properties. No map coverage is available for the subject property; the Fire Insurance Map Report is provided in Exhibit F.

3.7. Environmental Liens

The Environmental Lien search was performed by GeoSearch for the subject property; the results are provided in Exhibit G. According to the Environmental Lien search, no environmental liens or activity and use limitations were found for the subject property.

3.8. Oil and Gas Exploration Records

GeoSearch's Oil and Gas Report identified one oil well on the subject property and eleven additional oil or gas wells within 0.5 miles of the subject property. Railroad Commission of Texas (RRC) records indicate that the well on the subject property was an oil well drilled in 1940 to a depth of 7,075 feet and was plugged in 1976. The casing was cut off five feet below ground and capped. Records showed that casinghead gas from the well was processed through the Flour Bluff Gas Plant (located approximately

one mile north of subject property). Railroad Commission of Texas records indicate that no pipelines cross the subject property. Several abandoned natural gas gathering pipelines are present to the north of the east tract of the subject property. GeoSearch's Oil and Gas Report and RRC records are included as Exhibit H.

3.9. *Water Well Records*

GeoSearch did not report any water wells on the subject property. Water wells reported within one-half mile of the subject property include 13 monitor wells, two industrial wells, two domestic wells, one industrial well, and one well with no reported use. The monitor wells appear to be associated with an oil and gas exploration company (Pittencrieff America) and with the Corpus Christi Naval Air Station former radio range site. Reported wells were identified in the Submitted Drillers Report Database and the Texas Water Development Board Database. GeoSearch's Water Well Report can be found in Exhibit I.

4. Property Reconnaissance

4.1. General

Ms. Tara Ducrest, an environmental scientist with Hanson, conducted the property reconnaissance visit of the subject property on November 19, 2020. Photographs taken during the property visit are included in Exhibit J.

4.2. Observations

The northeast, northwest, and southeast portions of the north tracts of the subject property were undeveloped land and a pond was present in the central portion of the subject property. The pond appears to be connected to the Laguna Madre by a culvert that crosses under Laguna Shores Road, to the pond north of the subject property by a culvert that crosses under Hustlin' Hornet Drive, and to Redhead Pond by a culvert that crosses under Gadwell Street. A storm drain inlet was observed along Hustlin' Hornet Drive. The inlet appeared to drain stormwater to an outfall that flows into the pond on the north tracts. Bollards were observed on the undeveloped land of the northeast portion. Some discarded items were observed on the southeast portion. Items observed included a refrigerator and concrete blocks. Windblown trash was observed along the east portion of the north tracts. During the site visit, a current was observed on the north end of the culvert that crosses under Gadwell Street, with water flowing southward. On the south tracts, undeveloped land was present on the west portion and Redhead Pond was present on the east portion. On the east tract, undeveloped land and the Laguna Madre were observed.

To the north of the subject property, Hustlin' Hornet Drive and undeveloped land with a pond were observed. To the east, reconstruction of Laguna Shores Road was occurring and single family homes and the Laguna Madre were present. To the south, undeveloped land with a pond, single family homes, and the Laguna Shores Pet Salon were present. To the west, Duncan Cemetery, Debra Lane, single family homes, and Flour Bluff Junior High School were present.

4.3. Pits, Ponds, and Lagoons

Ponds were observed on the subject property. In the National Wetlands Inventory, the ponds are identified as a freshwater pond and an estuarine and marine deepwater habitat.

4.4. Stained Soils

No stained soils were observed on the subject property.

4.5. Stressed Vegetation

No stressed vegetation was observed on the subject property.

4.6. Possible Presence of Polychlorinated Biphenyls (PCBs)

No signs of PCB presence or contamination were observed on the subject property during the site visit.

4.7. Solid Waste Disposal

Some discarded items were observed on the southeast portion of the north tracts of the subject property. Items observed included a refrigerator and concrete blocks. Windblown trash was also observed along the east portion of the north tracts of the subject property.

4.8. Identification of Contaminant Migration Paths

Possible contaminant migration paths to the subject property include stormwater, surface water, groundwater, soil infiltration, or airborne contaminants.

4.9. Wastewater

A wastewater force main was observed along the east portion of the north tracts of the subject property.

4.10. Other Issues

No other issues were observed on the subject property during the site visit.

5. Interviews

No interviews were conducted for this Phase I ESA.

6. Conclusion

Hanson Professional Services Inc. (Hanson) conducted a Phase I Environmental Site Assessment (ESA) of 24.878 acres located to the southwest of the intersection of Laguna Shores Road and Hustlin' Hornet Drive in Corpus Christi, Nueces County, Texas. The ESA was performed in general accordance with the requirements for the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13.

The subject property consists of eight tracts of land in the Flour Bluff neighborhood of Corpus Christi, Texas. The subject property is undeveloped land and water (ponds and Laguna Madre). No structures or improvements were observed on the subject property, other than fencing and bollards. To the north of the subject property, Hustlin' Hornet Drive and undeveloped land with a pond are present. To the east, reconstruction of Laguna Shores Road is occurring and single family homes and the Laguna Madre are present. To the south, the Redhead Pond Wildlife Management Area, single family homes, Coastal Bend Small Breed Rescue, and the Laguna Shores Pet Salon are present. To the west, Duncan Cemetery, Debra Lane, single family homes, and Flour Bluff Junior High School are present.

Information pertaining to potential environmental liabilities resulting from the treating, storing, disposing, discharging, or emitting of hazardous and/or regulated substances was obtained by Hanson through GeoSearch. GeoSearch's search of available government records did not identify the subject property in any databases. Four sites were identified within the search radius beyond the subject property. One of the identified sites, a closed unauthorized landfill, is considered to be a Recognized Environmental Condition (REC).

GeoSearch's Oil and Gas Report identified one oil well on the subject property and eleven additional oil or gas wells within 0.5 miles of the subject property. Railroad Commission of Texas (RRC) records indicate that the well on the subject property was an oil well drilled in 1940 to a depth of 7,075 feet and was plugged in 1976. The casing was cut off five feet below ground and capped. Records showed that casinghead gas from the well was processed through the Flour Bluff Gas Plant (located approximately one mile north of subject property). Historical aerial and topographic maps from the 1950s through the 1970s show several aboveground storage tanks near the oil well on the subject property. RRC records indicate that no pipelines cross the subject property. Several abandoned natural gas gathering pipelines are present to the north of the east tract of the subject property.

Findings

Our review of site information and a property inspection revealed the following Recognized Environmental Conditions (RECs) in connection with the subject property:

On-Site RECs:

- *Possible Presence of Contamination from Past Oil and Gas Exploration* – One oil well is documented as being drilled on the northeast portion of the subject property in 1940 and plugged in 1976. In the past, at least 12 aboveground storage tanks and two pits appear to have been located in the northeast portion of the subject property. While no visible signs of contamination were observed during the site visit, activities related to historical oil and gas exploration may have caused contamination on the subject property.

Off-Site RECs:

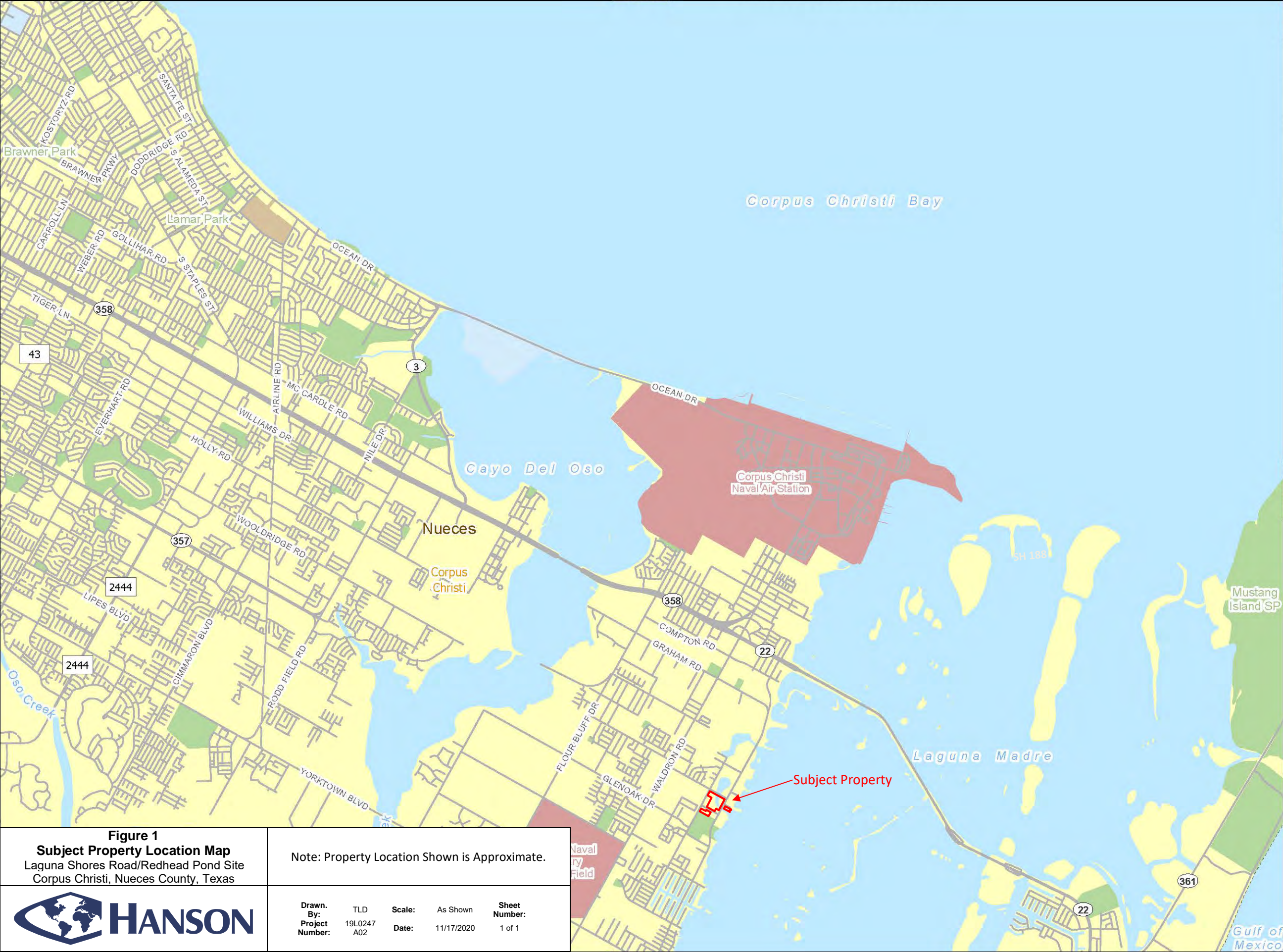
- *Possible Presence of Contamination from Unauthorized Landfill* – An unauthorized closed landfill is documented as being present approximately 800 feet southwest of the subject property. The landfill was identified as accepting household and construction demolition debris. The landfill was used for an unknown length of time and was closed in 1979. Use of nearby land as an unauthorized landfill may have caused contamination on the subject property.

Recommendations

Due to the Recognized Environmental Conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

Figure 1

Subject Property Location Map



- Unincorporated Community
- ⊛ County Seat
- ⊕ Border Crossing
- ⚰ Cemetery
- Cemetery (Inside City)
- ⚓ Deep Draft Port
- ⚓ Shallow Draft Port
- Railroad
- Dam
- River or Stream
- TXDOT District
- Lakes
- Education
- Military
- Airport Runway
- Airport
- Prison
- Parks and Other Public Land

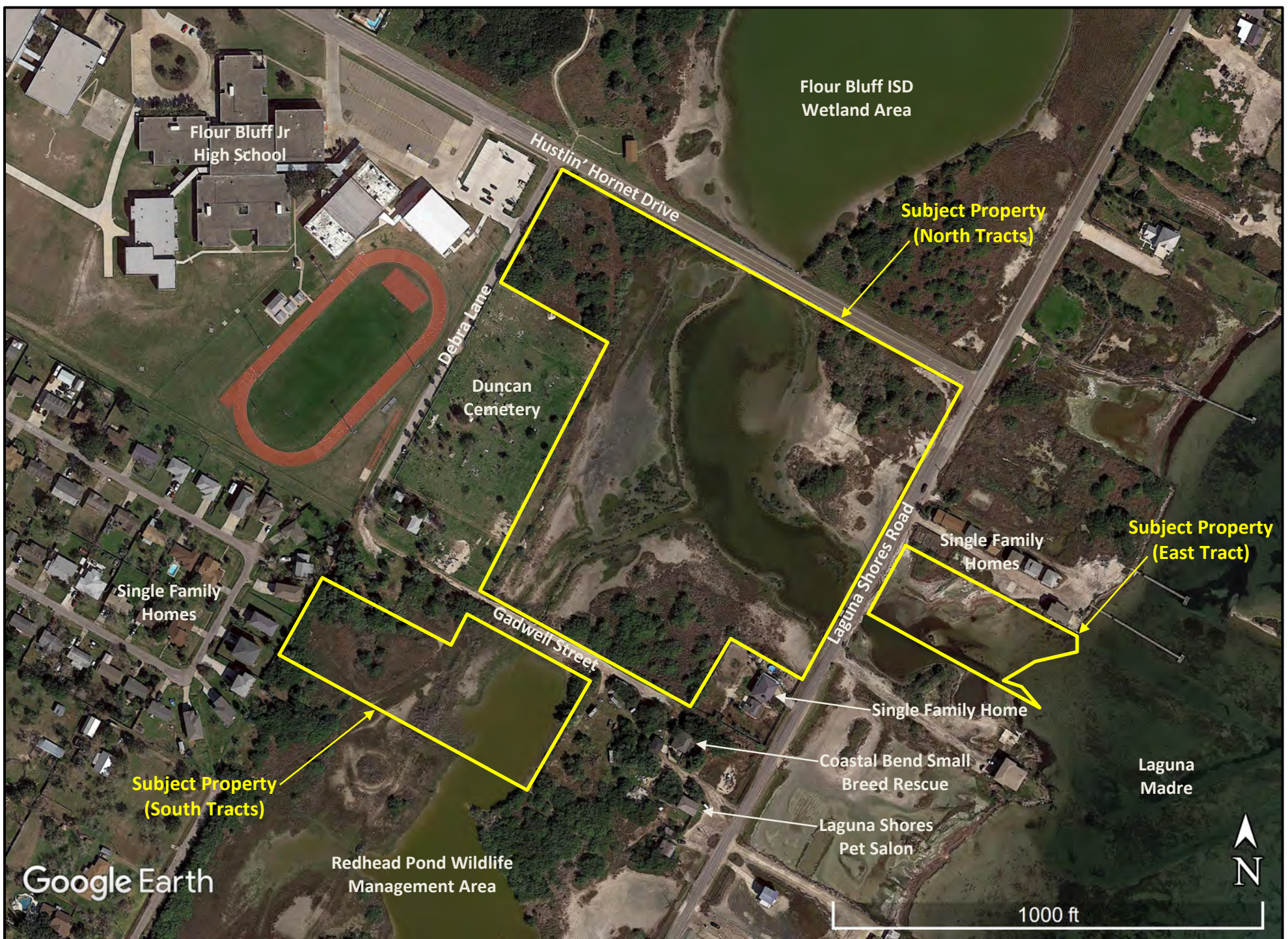
Figure 1
Subject Property Location Map
Laguna Shores Road/Redhead Pond Site
Corpus Christi, Nueces County, Texas

Note: Property Location Shown is Approximate.

Drawn By: TLD
Project Number: 19L0247 A02
Scale: As Shown
Date: 11/17/2020
Sheet Number: 1 of 1

Figure 2

Subject Property Detail Map



Note: Property Boundaries Shown are Approximate.

Drawn By:	TLD	Scale:	As Shown	Sheet Number:
Project Number:	19L0247A02	Date:	11/20/2020	1 of 1

Figure 2 - Subject Property Detail Map
Laguna Shores/Redhead Pond Site
Corpus Christi, Nueces County, Texas

Exhibit A

Physical Setting Report

GeoPlus Physical Setting Maps

Target Property:

***Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418***

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383808

Project #: 19L0247A02

Date: 11/16/2020

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Disclaimer

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Target Property Summary

Target Property Information

Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Texas 78418

Coordinates

Area centroid (-97.286787, 27.6428712)
1 feet above sea level

USGS Quadrangle

Oso Creek Ne, TX

Geographic Coverage Information

County/Parish: Nueces (TX)











ZipCode(s):





Corpus Christi TX: 78418

FEMA Map



 Target Property (TP)

-  Without Base Flood Elevation (BFE)
-  Zone A, V, A99
-  With BFE or Depth
-  Regulatory Floodway Zone AE, AO, AH, VE, AR
-  0.2% Annual Chance Flood Hazard - Zone X
-  Future Conditions 1% Annual
-  Chance Flood Hazard - Zone X
-  Area with Reduced Flood Risk due to
-  Levee - Zone X
-  Area with Flood Risk due to Levee - Zone D

-  Area of Undetermined Flood Hazard
-  Zone D
-  Minimal Flood Hazard - Zone X
-  Digital Data Not Available

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**

Letter of map revision date:
N/A
Latest study effective date:
N/A



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

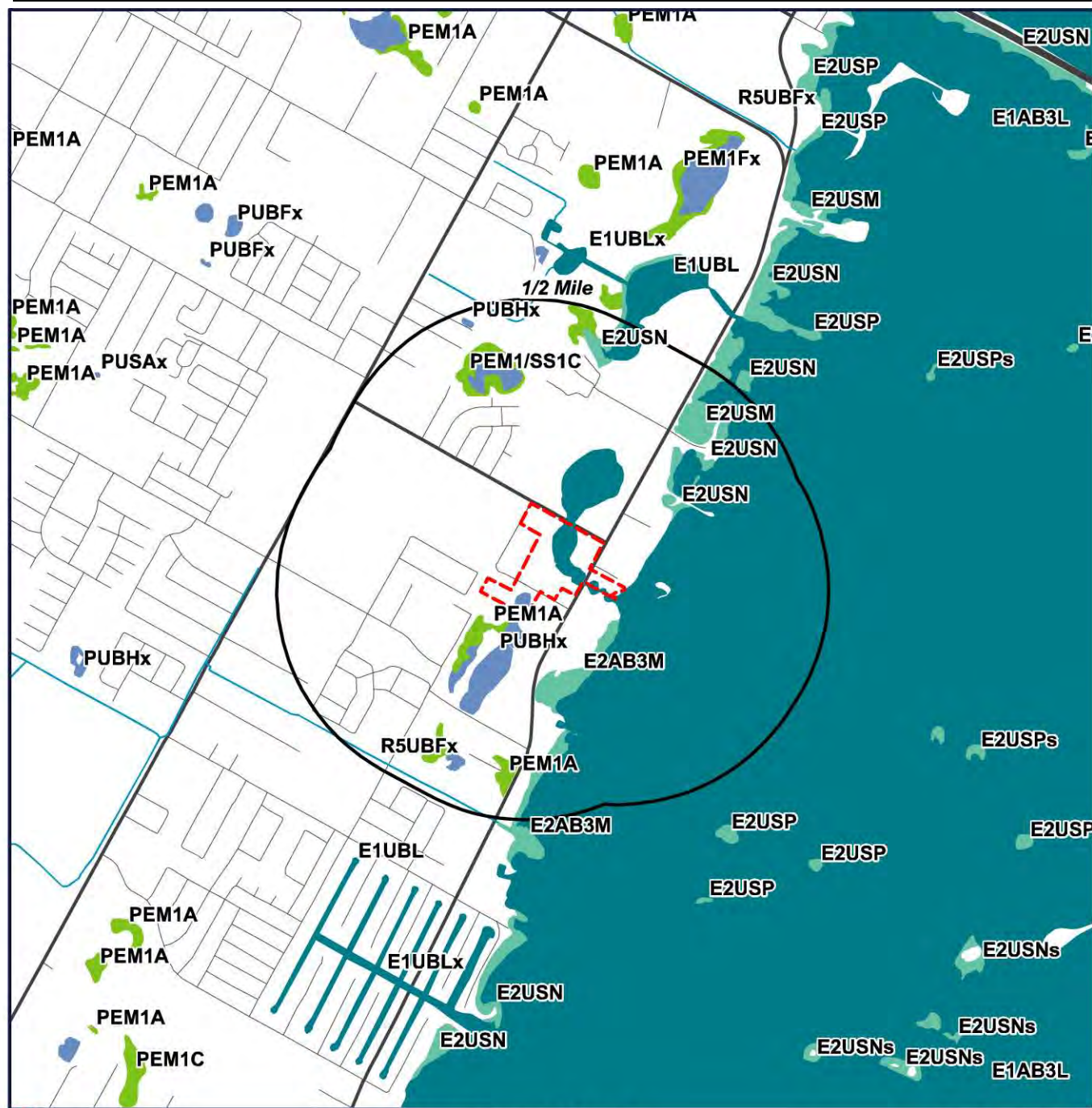
FEMA Report

FEMA - Federal Emergency Management Agency

The National Flood Hazard Layer (NFHL) data used in this report is derived from the Federal Emergency Management Agency. The NFHL dataset is a compilation of effective Flood Insurance Rate Map (FIRM) databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance Rate Maps) and Letters of Map Change (Letters of Map Amendment and Letters of Map Revision only) that create a seamless GIS data layer for United States and its territories. The NFHL is updated as new study or LOMC data becomes effective. Note: Currently, not all areas have modernized FIRM database data available. As a result, users may need to refer to the effective Flood Insurance Rate Map for effective flood hazard information.

FEMA Flood Zone Definitions within Search Radius

NWI Map



Target Property (TP)

ESTUARINE AND MARINE DEEPWATER
 ESTUARINE AND MARINE WETLAND
 FRESHWATER EMERGENT WETLAND
 FRESHWATER FORESTED/SHRUB WETLAND

LAKE
 OTHER
 RIVERINE

Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418

NDA - DIGITAL DATA NOT AVAILABLE

Map Date: 05/01/2018



0' 1000' 2000' 3000'
 SCALE: 1" = 2000'

NWI Report

NWI - National Wetlands Inventory

The US NWI digital data bundle is a set of records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project. Currently, this data is only available in select counties throughout the United States.

NWI Definitions within Search Radius

E1AB3L

SYSTEM: **ESTUARINE**
SUBSYSTEM: **SUBTIDAL**
CLASS: **AQUATIC BED**

E1UBL

SYSTEM: **ESTUARINE**
SUBSYSTEM: **SUBTIDAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **SUBTIDAL**

E2AB3M

SYSTEM: **ESTUARINE**
SUBSYSTEM: **INTERTIDAL**
CLASS: **AQUATIC BED**

E2USM

SYSTEM: **ESTUARINE**
SUBSYSTEM: **INTERTIDAL**
CLASS: **UNCONSOLIDATED SHORE**
WATER REGIME: **IRREGULARLY EXPOSED**

E2USN

SYSTEM: **ESTUARINE**
SUBSYSTEM: **INTERTIDAL**
CLASS: **UNCONSOLIDATED SHORE**
WATER REGIME: **REGULARLY FLOODED**

E2USP

SYSTEM: **ESTUARINE**
SUBSYSTEM: **INTERTIDAL**
CLASS: **UNCONSOLIDATED SHORE**
WATER REGIME: **IRREGULARLY FLOODED**

PEM1/SS1C

SYSTEM: **PALUSTRINE**

NWI Report

CLASS: **EMERGENT**

SUBCLASS: **BROAD-LEAVED DECIDUOUS**

PEM1A

SYSTEM: **PALUSTRINE**

CLASS: **EMERGENT**

SUBCLASS: **BROAD-LEAVED DECIDUOUS**

WATER REGIME: **TEMPORARILY FLOODED**

PUBFx

SYSTEM: **PALUSTRINE**

CLASS: **UNCONSOLIDATED BOTTOM**

SPECIAL MODIFIER: **EXCAVATED**

PUBH

SYSTEM: **PALUSTRINE**

CLASS: **UNCONSOLIDATED BOTTOM**

PUBHx

SYSTEM: **PALUSTRINE**

CLASS: **UNCONSOLIDATED BOTTOM**

SPECIAL MODIFIER: **EXCAVATED**

PUSA

SYSTEM: **PALUSTRINE**

CLASS: **UNCONSOLIDATED SHORE**

R5UBFx

SYSTEM: **RIVERINE**

SUBSYSTEM: **UNKNOWN PERENNIAL**

CLASS: **UNCONSOLIDATED BOTTOM**


WATER REGIME: **SEMIPERMANENTLY FLOODED**

SPECIAL MODIFIER: **EXCAVATED**

Texas - DIGITAL DATA NOT AVAILABLE

Soil Map



 Target Property (TP)

 SOIL BOUNDARY

 NOTCOM - DIGITAL DATA NOT AVAILABLE/NOT COMPLETE

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

SOIL Report

Soil Surveys


The soil data used in this report is obtained from the Natural Resources Conservation Service (NRCS). The NRCS is the primary federal agency that works with private landowners to help them conserve, maintain and improve their natural resources. The soil survey contains information that can be applied in managing farms and ranches; in selecting sites for roads, ponds, buildings and other structures; and in determining the suitability of tracts of land for farming, industry and recreation. This data is available in select counties throughout the United States.

SOIL Code Definitions within Search Radius

Gm	Galveston and Mustang fine sands
Nu	Nueces fine sand
Ta	Tidal flats
W	Water

Geology Map



 Target Property (TP)

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

GEOLOGY Report

US GEOLOGY

THE GEOLOGY DATA USED IN THIS REPORT ORIGINATES FROM THE USGS. THE FIRST STAGE IN DEVELOPING STATE DATABASES FOR THE CONTERMINOUS UNITED STATES WAS TO ACQUIRE DIGITAL VERSIONS OF ALL EXISTING STATE GEOLOGIC MAPS. ALTHOUGH A SIGNIFICANT NUMBER OF DIGITAL STATE MAPS ALREADY EXISTED, A NUMBER OF STATES LACKED THEM. FOR THESE STATES NEW DIGITAL COMPILATIONS WERE PREPARED IN COOPERATION WITH STATE GEOLOGIC SURVEYS OR BY THE NSA (NATIONAL SURVEYS AND ANALYSIS) PROJECT. THESE NEW DIGITAL STATE GEOLOGIC MAPS AND DATABASES WERE CREATED BY DIGITIZING ALREADY EXISTING PRINTED MAPS, OR, IN A FEW CASES, BY MERGING EXISTING LARGER SCALE DIGITAL MAPS.

GEOLOGY Definitions within Search Radius

GEOLOGY SYMBOL: **Qbb**

UNIT NAME: **barrier island deposits**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary**

UNIT DESCRIPTION:

barrier island deposits

ADDITIONAL UNIT INFORMATION:

mostly fine-grained sand, shells scarce; surface slightly higher than that of surrounding deposits, characterized by numerous pimple mounds and poorly defined relict beach ridges; includes many Recent, locally active sand dunes; probably part of "Ingles

ROCKTYPE/S: **sand; silt;**

GEOLOGY SYMBOL: **Water**

UNIT NAME: **water**

UNIT AGE: **None**

UNIT DESCRIPTION:

NOT REPORTED

ADDITIONAL UNIT INFORMATION:

surface water

ROCKTYPE/S: **water**

Exhibit B

Radius Report

Radius Report

[GeoLens by GeoSearch](#)

Target Property:

***Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418***

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383800

Project #: 19L0247A02

Date: 11/16/2020

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Disclaimer

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

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Target Property Summary

Target Property Information

Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Texas 78418

Coordinates

Area centroid (-97.286787, 27.6428712)

1 feet above sea level

USGS Quadrangle

Oso Creek Ne, TX

Geographic Coverage Information

County/Parish: Nueces (TX)

ZipCode(s):

Corpus Christi TX: 78418

Database Summary

FEDERAL LISTING

Standard Environmental Records

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

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR06	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSTX	1	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
HAZARDOUS WASTE COMPLIANCE DOCKET FACILITIES	HWCD	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SSEHRI PFAS CONTAMINATION SITES	SSEHRIPFAS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	1	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	1	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		3	0	

Database Summary

STATE (TX) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
STATE INSTITUTIONAL/ENGINEERING CONTROL SITES	SIEC01	0	0	TP/AP
PETROLEUM STORAGE TANKS	PST	0	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	1	0	0.5000
COMMERCIAL MANAGEMENT FACILITIES FOR HAZARDOUS WASTE AND INDUSTRIAL SOLID WASTES	WSTMGMT	0	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	0	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
OPERATOR CLEANUP PROGRAM SITES	OCP	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	0	0	0.5000
STATE SUPERFUND SITES	SF	0	0	1.0000
SUB-TOTAL		1	0	

Additional Environmental Records

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

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	0	0	1.0000
SUB-TOTAL		0	0	

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000

SUB-TOTAL		0	0	
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Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000

SUB-TOTAL		0	0	
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TOTAL		4	0	
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Database Radius Summary

FEDERAL LISTING

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

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	0.0200	0	NS	NS	NS	NS	NS	0
ECHOR06	0.0200	0	NS	NS	NS	NS	NS	0
ERNSTX	0.0200	0	NS	NS	NS	NS	NS	0
FRSTX	0.0200	1	NS	NS	NS	NS	NS	1
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
HWCD	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	0.0200	0	NS	NS	NS	NS	NS	0
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDES06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	0.0200	0	NS	NS	NS	NS	NS	0
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSEHRIPFAS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR06	0.1250	0	0	NS	NS	NS	NS	0
RCRANGR06	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	0.5000	0	0	0	0	NS	NS	0
DNPL	0.5000	0	0	0	0	NS	NS	0
NLRRCRAT	0.5000	0	0	0	0	NS	NS	0

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	0	NS	NS	0
SEMS	0.5000	0	0	0	0	NS	NS	0
SEMSARCH	0.5000	0	0	0	0	NS	NS	0
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	1	NS	1
FUDS	1.0000	0	0	1	0	0	NS	1
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	1.0000	0	0	0	0	0	NS	0
NMS	1.0000	0	0	0	0	0	NS	0
NPL	1.0000	0	0	0	0	0	NS	0
PNPL	1.0000	0	0	0	0	0	NS	0
RCRAC	1.0000	0	0	0	0	0	NS	0
RCRASUBC	1.0000	0	0	0	0	0	NS	0
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		1	0	1	0	1	0	3

Database Radius Summary

STATE (TX) LISTING

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

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

Database Radius Summary

TRIBAL LISTING

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

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	0.2500	0	0	0	NS	NS	NS	0
LUSTR06	0.5000	0	0	0	0	NS	NS	0
ODINDIAN	0.5000	0	0	0	0	NS	NS	0
INDIANRES	1.0000	0	0	0	0	0	NS	0

SUB-TOTAL		0	0	0	0	0	0	0
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TOTAL		1	0	2	0	1	0	4
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



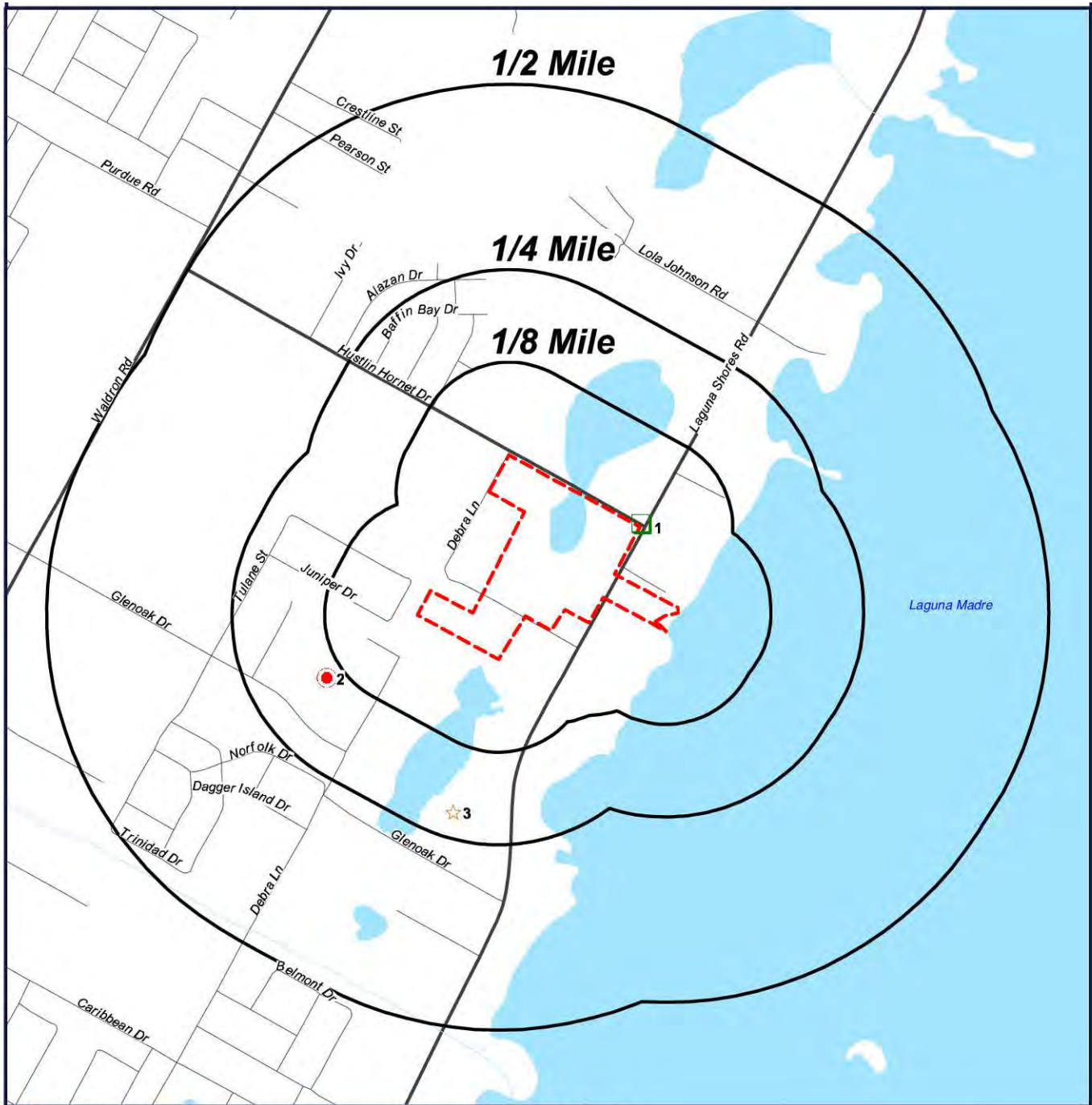
- Target Property (TP)
- DOD
- CALF
- FUDS

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Radius Map 2



- Target Property (TP)
- FUDS
- CALF
- DOD

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 550' 1100' 1650'
SCALE: 1" = 1100'

Ortho Map



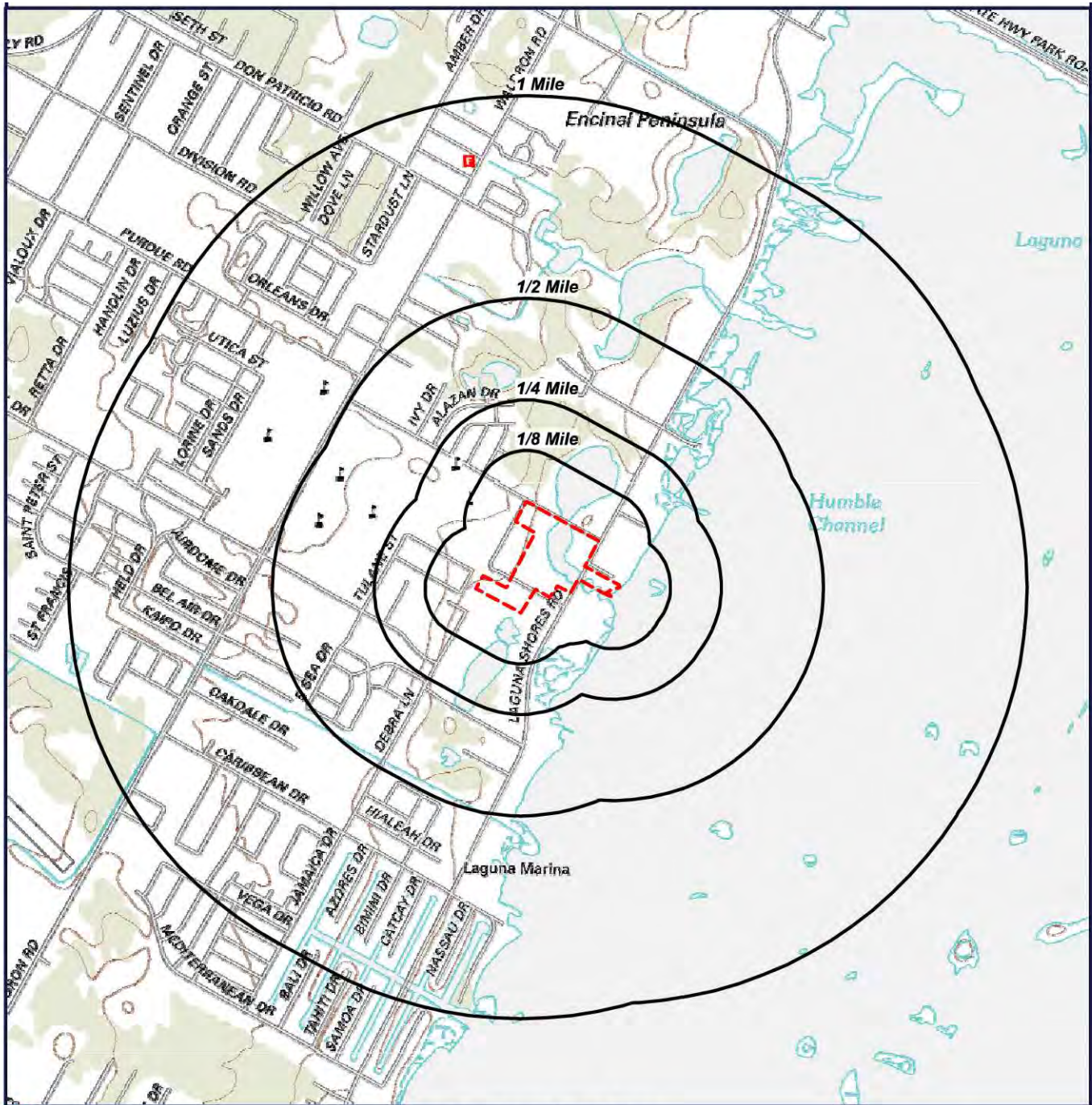
- Target Property (TP)
- FRSTX
- CALF
- FUDS
- DOD


**Quadrangle(s): Oso
Creek Ne
Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 550' 1100' 1650'
SCALE: 1" = 1100'

Topographic Map



 Target Property (TP)

Quadrangle(s): Oso
Creek Ne
Source: USGS,
02/01/2013
Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Located Sites Summary

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

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	FRSTX	110037845641	Higher (2 ft.)	0.006 mi. E (32 ft.)	LAGUNA SHORES ROAD REHABILITATION	5000' SOUTH TO INTERSECTION OF LAGUNA SHORES ROAD, CORPUS CHRISTI, TX 78418	18
2	CALF	510	Higher (11 ft.)	0.149 mi. WSW (787 ft.)	O'DONOVITCH	200 BLK OF GLEN OAK ST. IN FLOUR BLUFF, TX	19
3	FUDS	K06TX1254	Higher (5 ft.)	0.215 mi. SSW (1135 ft.)	NGP RADIO RANGE	NUECES COUNTY, NO CITY, TX 78418	20
4	DOD	2326	Higher (23 ft.)	0.849 mi. WSW (4483 ft.)	ALF WALDRON	NUECES COUNTY, CORPUS CHRISTI, TX 78418	21

Site Summary By Database

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

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
2	CALF	510	Higher (11 ft.)	0.149 mi. WSW (787 ft.)	O'DONOVITCH	200 BLK OF GLEN OAK ST. IN FLOUR BLUFF, TX
4	DOD	2326	Higher (23 ft.)	0.849 mi. WSW (4483 ft.)	ALF WALDRON	NUECES COUNTY, CORPUS CHRISTI, TX 78418
1	FRSTX	110037845641	Higher (2 ft.)	0.006 mi. E (32 ft.)	LAGUNA SHORES ROAD REHABILITATION	5000' SOUTH TO INTERSECTION OF LAGUNA SHORES ROAD, CORPUS CHRISTI, TX 78418
3	FUDS	K06TX1254	Higher (5 ft.)	0.215 mi. SSW (1135 ft.)	NGP RADIO RANGE	NUECES COUNTY, NO CITY, TX 78418

Elevation Summary

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

Target Property Elevation: 1 ft.

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

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	FRSTX	2 ft.	LAGUNA SHORES ROAD REHABILITATION	5000' SOUTH TO INTERSECTION OF LAGUNA SHORES ROAD, CORPUS CHRISTI, TX 78418	18
2	CALF	11 ft.	O'DONOVITCH	200 BLK OF GLEN OAK ST. IN FLOUR BLUFF, TX	19
3	FUDS	5 ft.	NGP RADIO RANGE	NUECES COUNTY, NO CITY, TX 78418	20
4	DOD	23 ft.	ALF WALDRON	NUECES COUNTY, CORPUS CHRISTI, TX 78418	21

LOWER ELEVATION

No Records Found

Facility Registry System (FRSTX)

[MAP ID# 1](#)

Distance from Property: 0.006 mi. (32 ft.) E
Elevation: 2 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110037845641

NAME: LAGUNA SHORES ROAD REHABILITATION

LOCATION ADDRESS: 5000' SOUTH TO INTERSECTION OF LAGUNA SHORES ROAD
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

EPA REGION: 06

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

LAGUNA SHORES ROAD REHABILITATION

PROGRAM/S LISTED FOR THIS FACILITY

TX-TCEQ ACR - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY - AGENCY CENTRAL REGISTRY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

1611 - HIGHWAY AND STREET CONSTRUCTION, EXCEPT ELEVATED HIGHWAYS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

[Back to Report Summary](#)

Closed & Abandoned Landfill Inventory (CALF)

[MAP ID# 2](#)

Distance from Property: 0.149 mi. (787 ft.) WSW
Elevation: 11 ft. (Higher than TP)

SITE INFORMATION

SITE NUMBER: 510

SITE NAME: O'DONOVITCH

LOCATION:

200 BLK OF GLEN OAK ST. IN FLOUR BLUFF

COUNTY: NUECES

COMMENTS:

TWC PERMIT DATABASE #30418

INSPECTION:

???

OWNER NAME: STEVE O'DONOVITCH

DATE OPEN: 0

DATE CLOSE: 1979

SIZE (ACRES): 0.00

SIZE (CUBIC YARDS): 0.00

PARTIES: NOT REPORTED

LANDFILL CONTENTS

HOUSEHOLD: YES

INDUSTRIAL: NR

AGRICULTURE: NR

OTHER: NR

UNAUTHORIZED: YES

HAZARD PROBABLY: NR

DEPTH CD: NR

MAXIMUM DEPTH: 0.00

OTHER DESCRIPTION: NOT REPORTED

REVIEWER: NOT REPORTED

CONSTRUCTION DEMOLITION: YES

TIRES: NR

BRUSH: NR

LEGAL: NR

HAZARD UNLIKELY: YES

HAZARD CERTAINLY: NR

MINIMUM THICKNESS: NR

USE: UK

[Back to Report Summary](#)

Formerly Used Defense Sites (FUDS)

MAP ID# 3

Distance from Property: 0.215 mi. (1,135 ft.) SSW

Elevation: 5 ft. (Higher than TP)

FACILITY INFORMATION

Geosearch Id: **K06TX1254**

FUDS NUMBER: **K06TX1254**

PROPERTY NAME: **NGP RADIO RANGE**

ADDRESS: **NUECES COUNTY**

NO CITY, TX 78418

COUNTY: **NUECES**

FACILITY DETAIL(S)

FUDS PROPERTY POINT DATA

FFID: **TX69799FA34000**

PROPERTY ID: **NOT REPORTED**

PROJECT ID: **NOT REPORTED**

ENV SITE ID: **NOT REPORTED**

SITE ID: **NOT REPORTED**

MRA ID: **NOT REPORTED**

PROJECT NUMBER: **NOT REPORTED**

PROJECT NAME: **NOT REPORTED**

PROGRAM: **NOT REPORTED**

CATEGORY: **NOT REPORTED**

STATUS: **PROPERTIES WITHOUT PROJECTS**

FED LAND TYPE: **NOT REPORTED**

FED LAND NAME: **NOT REPORTED**

FED LAND AGENCY: **NOT REPORTED**

SITE CLOSEOUT DATE: **NOT REPORTED**

REMEDY IN PLACE DATE: **NOT REPORTED**

RESPONSE COMPLETE DATE: **NOT REPORTED**

NPL STATUS CODE: **NOT LISTED**

CURRENT OWNER: **NOT REPORTED**

ELIGIBILITY: **NOT REPORTED**

HAS PROJECTS: **NO**

FISCAL YEAR: **2018**

EPA REGION: **06**

CONGRESSIONAL DISTRICT: **27**

DISTRICT RESPONSIBLE FOR THE FUDS PROPERTY: **FORT WORTH DISTRICT (SWF)**

IS THE PROPERTY HAS ANY CLEANUP UNDER THE MILITARY MUNITIONS RESPONSE PROGRAM (MMRP): **NOT REPORTED**

ACREAGE: **NOT REPORTED**

DESCRIPTION: **NOT REPORTED**

HISTORY: **NOT REPORTED**

EMS MAP LINK: [CLICK HERE](#)

[Back to Report Summary](#)

Department of Defense Sites (DOD)

MAP ID# 4

Distance from Property: 0.849 mi. (4,483 ft.) WSW

Elevation: 23 ft. (Higher than TP)

GEOSEARCH ID#: 2326

ID#: 2326

NAME: ALF WALDRON

FEDERAL LAND TYPE: NAVY

AREA SIZE IN SQUARE MILES: 1.440758820

THE PERIMETER OF THE AREA IN SQUARE MILES: 7.686973026

THE NAME OF THE FEATURE AS LISTED IN THE GEOGRAPHIC NAMES INFORMATION SYSTEM (GNIS) DATABASE:

WALDRON FIELD NOLF

THE GNIS IDENTIFIER FOR THE FEATURE:

2675919

THE PRIMARY OWNING OR ADMINISTERING AGENCY:

DOD - FEDERAL LAND OWNED OR ADMINISTERED BY THE DEPARTMENT OF DEFENSE

[Back to Report Summary](#)

Unlocated Sites Summary

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

No Records Found

Environmental Records Definitions - FEDERAL

AIRSAFS

Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance. Enforcement and Compliance History Online (ECHO) Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014, the EPA retired this system for Clean Air Act stationary sources.

ALTFUELS

Alternative Fueling Stations

VERSION DATE: 04/30/20

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

BF

Brownfields Management System

VERSION DATE: 10/08/20

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

BRS

Biennial Reporting System

VERSION DATE: 12/31/15

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

CDL

Clandestine Drug Laboratory Locations

VERSION DATE: 06/17/20

Environmental Records Definitions - FEDERAL

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DNPL Delisted National Priorities List

VERSION DATE: 09/21/20

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

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

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

DOD Department of Defense Sites

VERSION DATE: 12/01/14

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

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/26/20

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as sites with a Superfund Alternative Approach (SAA) agreement in place. The only sites included that are not on the NPL, proposed for NPL, or removed from proposed NPL, are those with an SAA Agreement in place. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the

Environmental Records Definitions - FEDERAL

potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 05/30/20

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

ERNSTX Emergency Response Notification System

VERSION DATE: 09/27/20

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

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

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

FRSTX Facility Registry System

VERSION DATE: 10/02/20

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

FUDS Formerly Used Defense Sites

VERSION DATE: 12/31/18

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not

Environmental Records Definitions - FEDERAL

all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP

Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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

HISTPST

Historical Gas Stations

VERSION DATE: NR

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

HMIRS06

Hazardous Materials Incident Reporting System

VERSION DATE: 05/20/20

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

HWCD

Hazardous Waste Compliance Docket Facilities

VERSION DATE: 04/29/20

This list of the Federal Agency Hazardous Waste Compliance Docket Facilities is maintained by the United States Environmental Protection Agency (EPA). According to the EPA, Section 120(c) of CERCLA requires EPA to establish a listing, known as the Federal Facility Hazardous Waste Compliance Docket (Docket), of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste. Thus, the Docket identifies all Federal facilities that must be evaluated to determine whether they pose a risk to human health and the environment and it makes this information available to the public. In order for the Docket to remain current and accurate it requires periodic updating.

Environmental Records Definitions - FEDERAL

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/19/20

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

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 09/19/20

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data: 812320, 812331, and/or 812332.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 04/26/20

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

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

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

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

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

Environmental Records Definitions - FEDERAL

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps. A few updates last occurred 2015 and early 2016 for select mine site area/s.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 08/07/20

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

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 09/14/20

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

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 09/14/20

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

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline,

Environmental Records Definitions - FEDERAL

heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPDES06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

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

NPL National Priorities List

VERSION DATE: 09/21/20

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

ODI Open Dump Inventory

VERSION DATE: 06/01/85

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

PADS PCB Activity Database System

VERSION DATE: 10/09/19

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

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The historic Permit Compliance System tracked enforcement status and permit compliance of facilities controlled

Environmental Records Definitions - FEDERAL

by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. This database includes permitted facilities located in EPA Region 6 states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. This system has since been modernized by United States Environmental Protection Agency and is now integrated into the Integrated Compliance Information System (ICIS). Please refer to the ICIS database as the current source for this data.

PNPL Proposed National Priorities List

VERSION DATE: 09/21/20

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

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 09/14/20

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

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 09/14/20

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 09/14/20

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA

Environmental Records Definitions - FEDERAL

Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

RCRASC RCRA Sites with Controls

VERSION DATE: 08/04/20

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

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

VERSION DATE: 09/14/20

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

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

VERSION DATE: 09/14/20

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

RODS Record of Decision System

VERSION DATE: 09/21/20

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

SEMS Superfund Enterprise Management System

VERSION DATE: 09/21/20

Environmental Records Definitions - FEDERAL

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

SEMSARCH

Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 09/21/20

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

SEMSLIENS

SEMS Lien on Property

VERSION DATE: 06/22/20

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

SFLIENS

CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SMCRA

Surface Mining Control and Reclamation Act Sites

VERSION DATE: 06/24/20

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those

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problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

SSEHRIPFAS

SSEHRI PFAS Contamination Sites

VERSION DATE: 12/12/19

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

SSTS

Section Seven Tracking System

VERSION DATE: 08/04/20

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. "Production" includes formulation, packaging, repackaging, and relabeling. For this database, the Product Information is only available for establishments up through 2014 or prior years, product details are no longer released by the EPA within the current SSTS non-Confidential Business Information data.

TRI

Toxics Release Inventory

VERSION DATE: 12/31/18

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

TSCA

Toxic Substance Control Act Inventory

VERSION DATE: 12/31/16

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured,

Environmental Records Definitions - FEDERAL

imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency (EPA) authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site. The EPA has collected Chemical Data Reporting (CDR) data since in 1986 (as Inventory Update Reporting). Collections occur approximately every four years and reporting requirements changed from collection to collection.

USUMTRCA

Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

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

Environmental Records Definitions - STATE (TX)

APAR

Affected Property Assessment Reports

VERSION DATE: 05/20/20

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

BSA

Brownfields Site Assessments

VERSION DATE: 08/03/20

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

CALF

Closed & Abandoned Landfill Inventory

VERSION DATE: 11/01/05

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

DCR

Dry Cleaner Registration Database

VERSION DATE: 05/12/20

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

DCRPS

Dry Cleaner Remediation Program Sites

VERSION DATE: 03/03/20

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry

Environmental Records Definitions - STATE (TX)

cleaning solvents.

GWCC Groundwater Contamination Cases

VERSION DATE: 12/31/19

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

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/18

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

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 10/09/20

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

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 07/23/20

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

Environmental Records Definitions - STATE (TX)

IOP Innocent Owner / Operator Database

VERSION DATE: 08/27/20

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

LANDAPP Land Application Permits

VERSION DATE: 06/18/20

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

LIENS TCEQ Liens

VERSION DATE: 05/05/20

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

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 09/04/20

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

MSD Municipal Setting Designations

VERSION DATE: 07/09/20

The Texas Commission on Environmental Quality (TCEQ) defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property.

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

Environmental Records Definitions - STATE (TX)

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 09/04/20

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

NOV Notice of Violations

VERSION DATE: 02/24/16

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

OCP Operator Cleanup Program Sites

VERSION DATE: 10/09/20

The Operator Cleanup Program oversees Operator-led cleanups to ensure compliance with RRC rules. The Sites in the Operator Cleanup Program enter the program on a case by-case basis through referral from the RRC District Offices or other RRC sections (e.g. Technical Permitting or Legal Enforcement) when groundwater has been impacted or has the potential to be impacted, risk-based site assessment is needed, or when the release consists of a unique or unusual contaminant. Operators can also choose to voluntarily enter their cleanup sites into the RRC's Operator Cleanup Program. Database is provided and maintained by the Railroad Commission of Texas (RRC) and location information is limited to what is available via the agency.

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 10/09/20

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

PST Petroleum Storage Tanks

VERSION DATE: 05/12/20

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

Environmental Records Definitions - STATE (TX)

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 09/29/20

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

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

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

SF State Superfund Sites

VERSION DATE: 05/26/20

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

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 08/03/20

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

SPILLS Spills Listing

VERSION DATE: 04/10/20

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

Environmental Records Definitions - STATE (TX)

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

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

TIERII Tier II Chemical Reporting Program Facilities

VERSION DATE: 12/31/12

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

VCP Voluntary Cleanup Program Sites

VERSION DATE: 08/26/20

The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.

WMRF Recycling Facilities

VERSION DATE: 11/01/12

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

WSTMGMT Commercial Management Facilities for Hazardous Waste and Industrial Solid Wastes

VERSION DATE: 10/01/19

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

Environmental Records Definitions - STATE (TX)

Environmental Records Definitions - TRIBAL

INDIANRES

Indian Reservations

VERSION DATE: 09/27/17

This database is extracted from select geographic and cartographic information from the U.S. Census Bureau. The Bureau of Indian Affairs (BIA) within the U.S. Department of the Interior (DOI) provides the list of federally recognized tribes. The American Indian/Alaska Native/Native Hawaiian (AIANNH) Areas includes the following legal entities: federally recognized American Indian reservations and off-reservation trust land areas, state-recognized American Indian reservations, and Hawaiian home lands (HHLs). The boundaries for federally recognized American Indian reservations and off-reservation trust lands are as of January 2017. The boundaries for state-recognized American Indian reservations and for state designated tribal statistical areas were delineated by state governor-appointed liaisons for the 2010 Census through the State American Indian Reservation Program and Tribal Statistical Areas Program respectively.

LUSTR06

Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/20

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

ODINDIAN

Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

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

USTR06

Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/01/20

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

Exhibit C

Historical Aerial Photographs

Historical Aerial Photographs

[NEW: GeoLens by Geosearch](#)

Target Property:

Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Nueces, Texas 78418

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383804

Project #: 19L0247A02

Date: 11/18/2020

Target Property Summary

Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Nueces, Texas 78418

USGS Quadrangle: **OSO CREEK NE**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-97.288103000, 27.644307000), (-97.287315000, 27.643915000), (-97.288457000, 27.641946000),
(-97.289388000, 27.642375000), (-97.289677000, 27.641904000), (-97.287882000, 27.641038000),
(-97.287296000, 27.641889000), (-97.286728000, 27.641599000), (-97.286424000, 27.642010000),
(-97.285903000, 27.641756000), (-97.285577000, 27.642244000), (-97.284199000, 27.641579000),
(-97.284348000, 27.641717000), (-97.284482000, 27.641752000), (-97.284227000, 27.641884000),
(-97.283928000, 27.641944000), (-97.283933000, 27.642048000), (-97.285326000, 27.642705000),
(-97.284770000, 27.643625000), (-97.287656000, 27.645028000)

Aerial Research Summary

<u>Date</u>	<u>Source</u>	<u>Scale</u>	<u>Frame</u>
2018	USDA	1" = 500'	N/A
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2006	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
02/24/2002	USGS	1" = 500'	N/A
01/23/1995	USGS	1" = 500'	N/A
10/18/1990	TXDOT	1" = 500'	5-179
11/05/1985	TXDOT	1" = 500'	647
10/31/1979	TXDOT	1" = 500'	313
02/24/1975	USGS	1" = 500'	1-68
10/09/1967	USGS	1" = 500'	2-108
01/15/1961	ASCS	1" = 500'	3-6
01/16/1956	ASCS	1" = 500'	2-22
10/25/1938	ASCS	1" = 500'	2-82

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Laguna Shores Redhead Pond Phase I ESA
USDA
2018





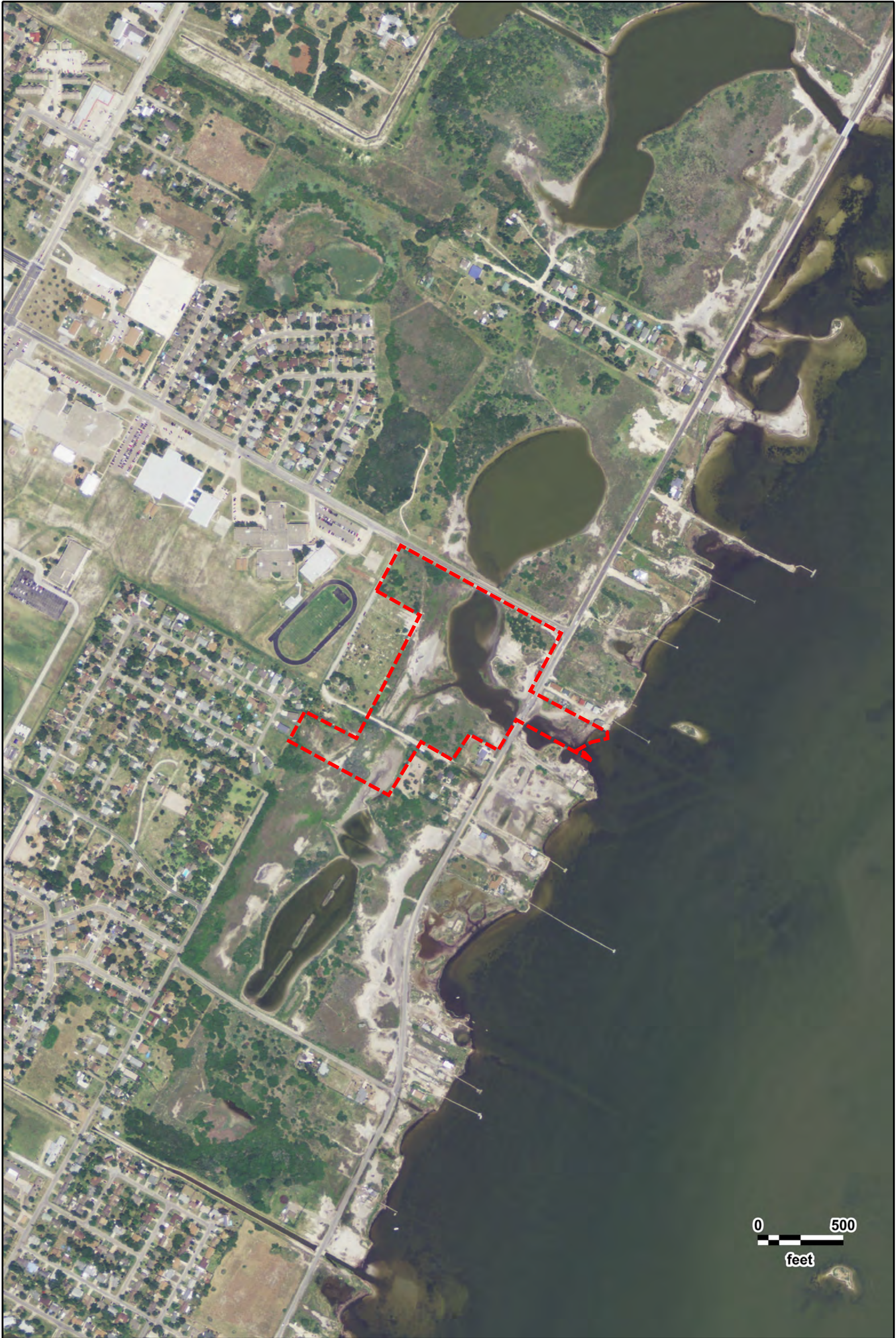
Laguna Shores Redhead Pond Phase I ESA
USDA
2016





Laguna Shores Redhead Pond Phase I ESA
USDA
2014





Laguna Shores Redhead Pond Phase I ESA
USDA
2012





Laguna Shores Redhead Pond Phase I ESA
USDA
2010





Laguna Shores Redhead Pond Phase I ESA
USDA
2006





0 500
feet



Laguna Shores Redhead Pond Phase I ESA
USDA
2005

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
USDA
2004

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
USGS
02/24/2002

GeoSearch





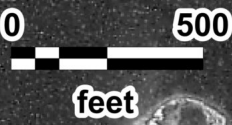
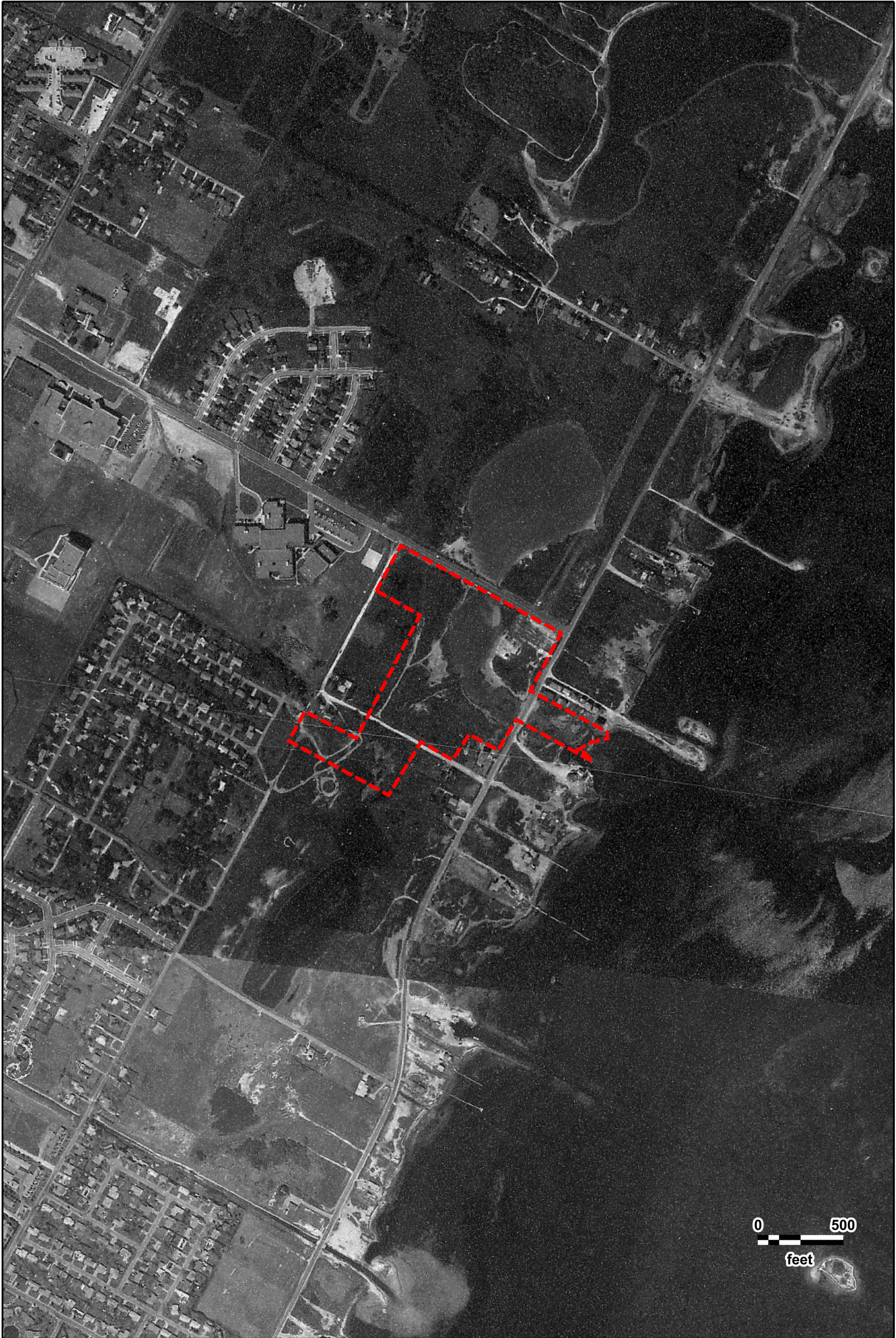
Laguna Shores Redhead Pond Phase I ESA
USGS
01/23/1995





Laguna Shores Redhead Pond Phase I ESA
TXDOT
10/18/1990







Laguna Shores Redhead Pond Phase I ESA
TXDOT
10/31/1979





0 500
feet



Laguna Shores Redhead Pond Phase I ESA
USGS
02/24/1975

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
USGS
10/09/1967



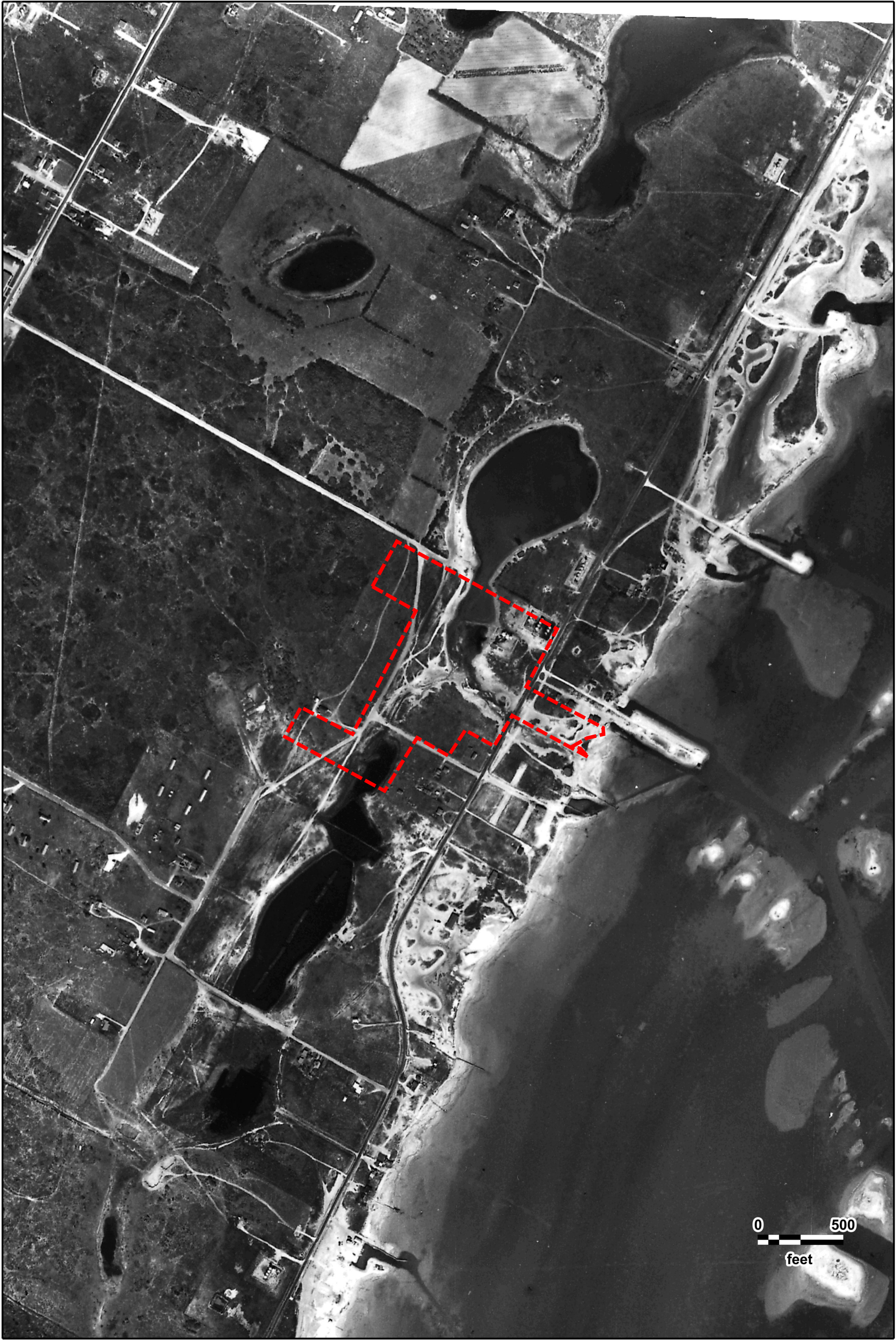


0 500
feet



Laguna Shores Redhead Pond Phase I ESA
ASCS
01/15/1961

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
ASCS
01/16/1956

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
ASCS
10/25/1938



Exhibit D

Historical Topographic Maps

Historical Topographic Maps

[NEW: GeoLens by Geosearch](#)

Target Property:

Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Nueces, Texas 78418

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383803

Project #: 19L0247A02

Date: 11/16/2020

Target Property Summary

Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Nueces, Texas 78418

USGS Quadrangle: **OSO CREEK NE**

Target Property Geometry: **Area**

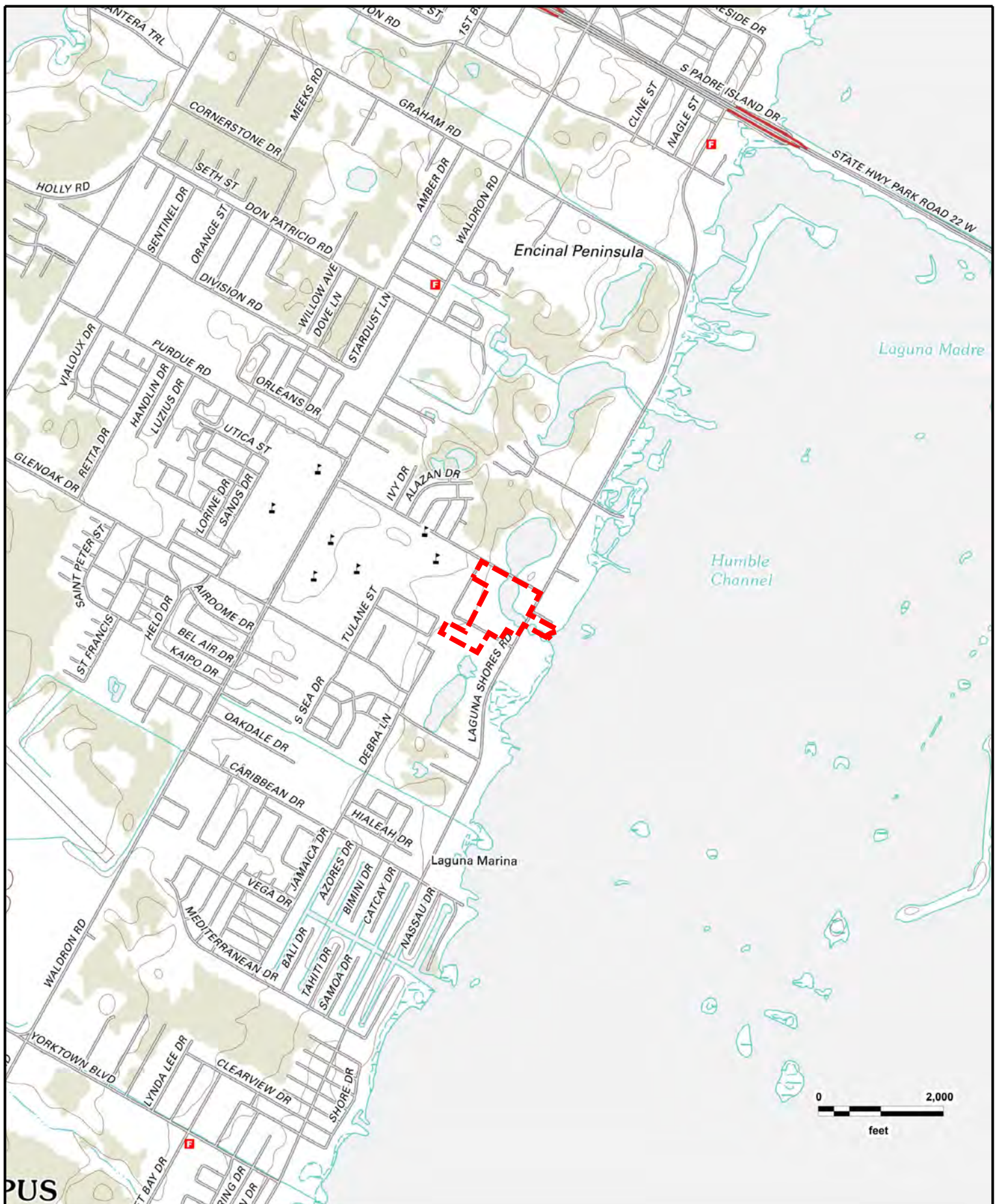
Target Property Longitude(s)/Latitude(s):

**(-97.288103000, 27.644307000), (-97.287315000, 27.643915000), (-97.288457000, 27.641946000),
(-97.289388000, 27.642375000), (-97.289677000, 27.641904000), (-97.287882000, 27.641038000),
(-97.287296000, 27.641889000), (-97.286728000, 27.641599000), (-97.286424000, 27.642010000),
(-97.285903000, 27.641756000), (-97.285577000, 27.642244000), (-97.284199000, 27.641579000),
(-97.284348000, 27.641717000), (-97.284482000, 27.641752000), (-97.284227000, 27.641884000),
(-97.283928000, 27.641944000), (-97.283933000, 27.642048000), (-97.285326000, 27.642705000),
(-97.284770000, 27.643625000), (-97.287656000, 27.645028000)**

Topographic Map Summary

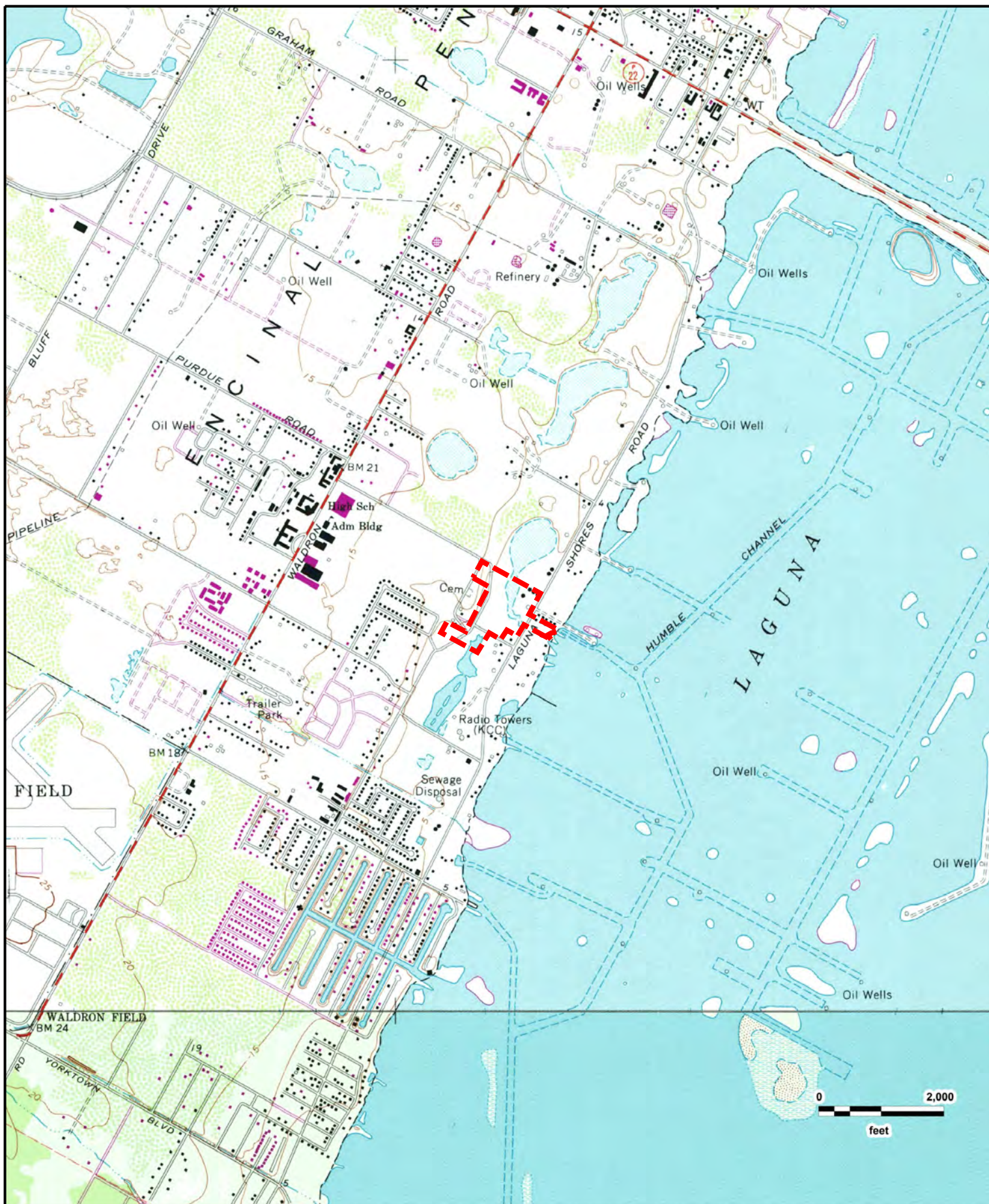
<u>Date</u>	<u>Quadrangle</u>	<u>Scale</u>
2013	OSO CREEK NE, TX (2013) PITA ISLAND, TX (2013)	1" = 2000'
1968 PHOTOREVISED 1975	OSO CREEK NE, TX (1975) PITA ISLAND, TX (1975)	1" = 2000'
1968	OSO CREEK NE, TX (1968) PITA ISLAND, TX (1969)	1" = 2000'
1951	OSO CREEK NE, TX	1" = 2000'
1925	OSO CREEK, TX	1" = 5208'
1920	CORPUS CHRISTI, TX	1" = 10420'

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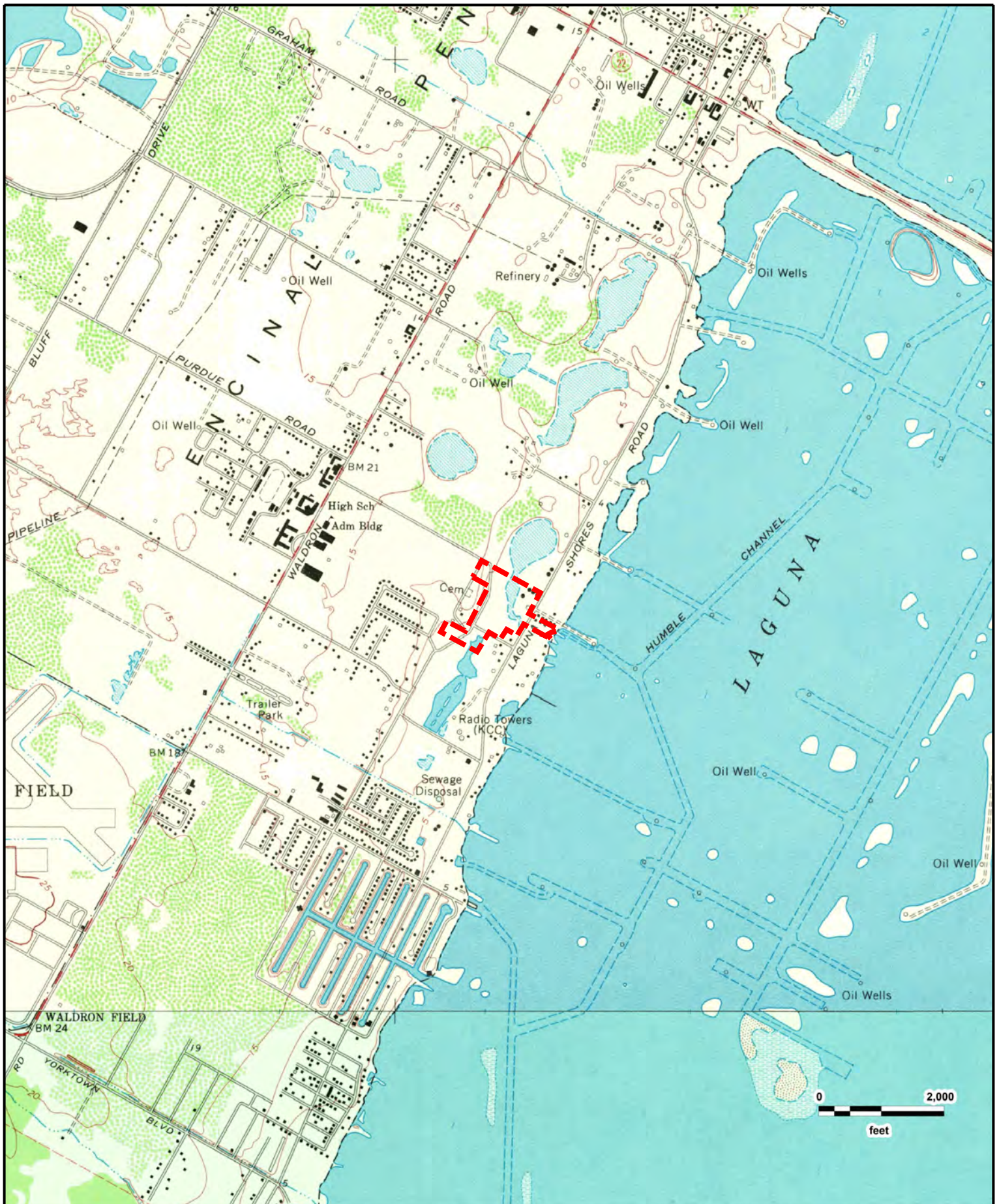
Laguna Shores Redhead Pond Phase I ESA
OSO CREEK NE, TX (2013), PITA ISLAND, TX (2013)

GeoSearch



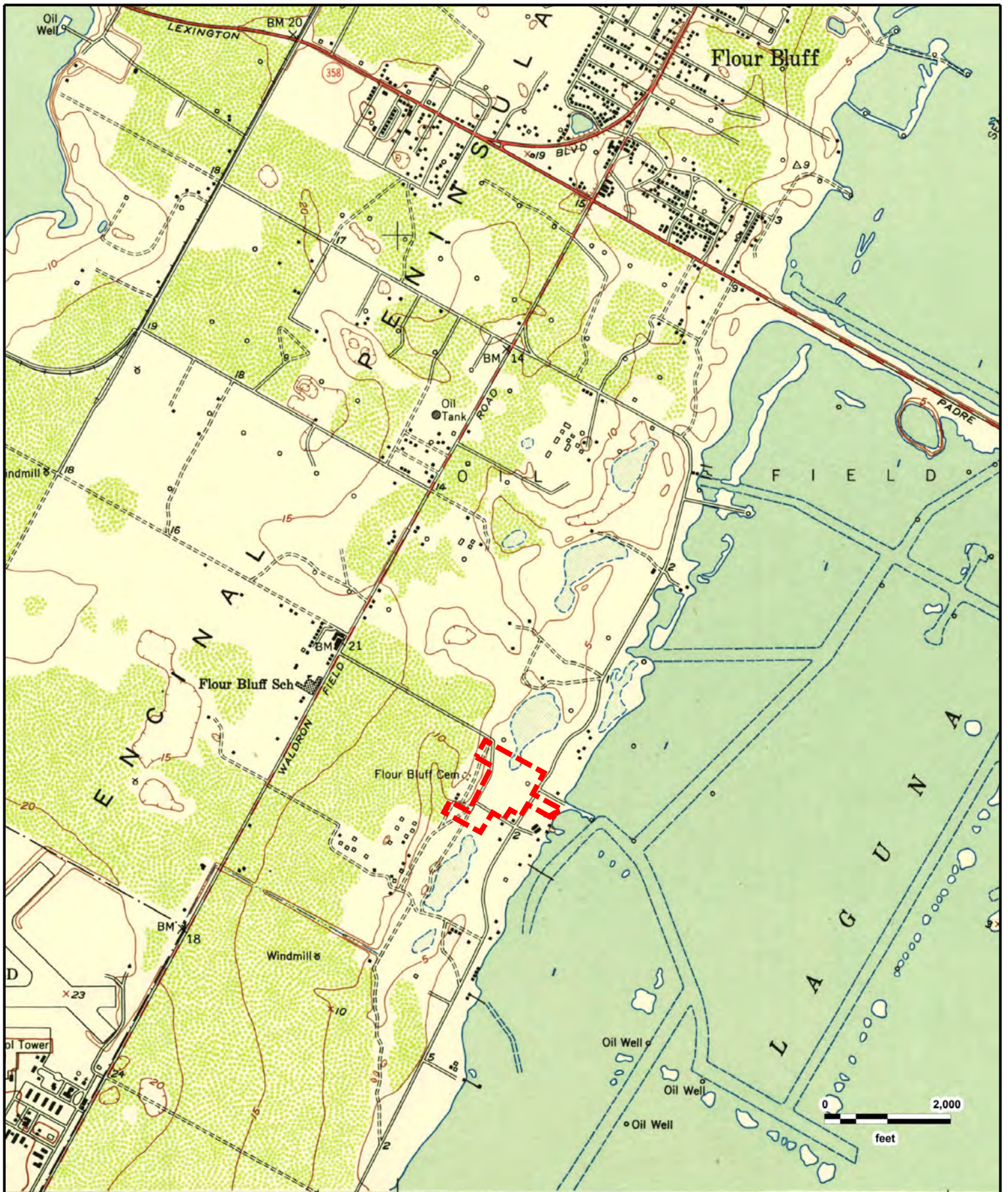
Laguna Shores Redhead Pond Phase I ESA
OSO CREEK NE, TX (1975), PITA ISLAND, TX (1975)

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
OSO CREEK NE, TX (1968), PITA ISLAND, TX (1969)

GeoSearch



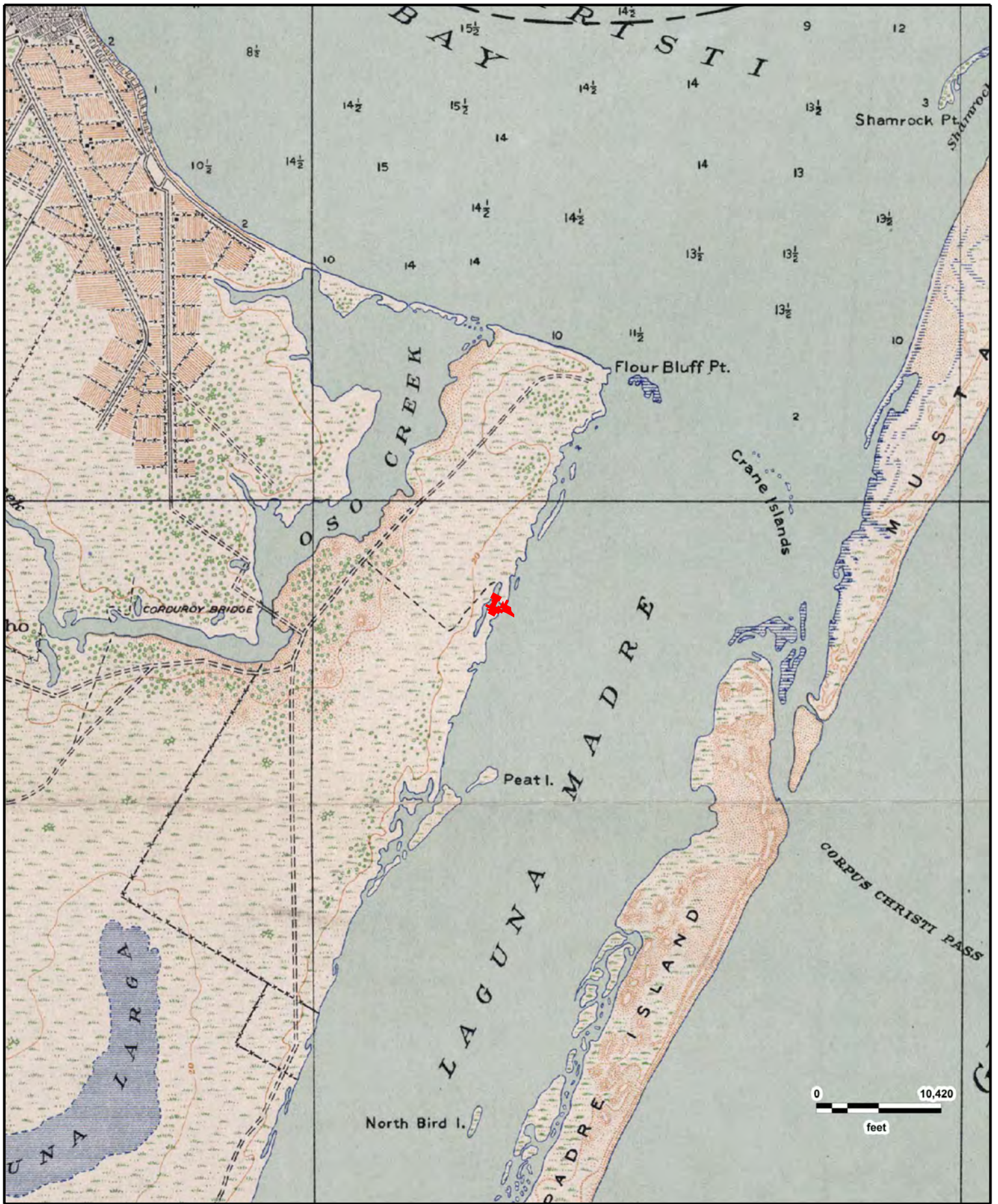
Laguna Shores Redhead Pond Phase I ESA
OSO CREEK NE, TX (1951)

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
OSO CREEK, TX (1925)

GeoSearch



Laguna Shores Redhead Pond Phase I ESA
CORPUS CHRISTI, TX (1920)

GeoSearch

Exhibit E

City Directory Reports

City Directory Target Property Address

Target Property:

*Laguna Shores Rd,
Corpus Christi, TX 78412*

Prepared For:

Hanson Professional Services

Order #: 157276

Project #: 19L0247A02

Date: 11/13/2020

City Directory Target Property Address

Laguna Shores Rd, Corpus Christi, TX 78412

1 LAGUNA SHORES RD

1970	STREET BEGINS	COLE DIRECTORY	CORPUS CHRISTI
1959	STREET NOT LISTED	R.L. POLK & CO.	CORPUS CHRISTI
1955	STREET NOT LISTED	R.L. POLK & CO.	CORPUS CHRISTI

1133 LAGUNA SHORES RD

1970	JILL HINKS	COLE DIRECTORY	CORPUS CHRISTI
1970	RITA ROS	COLE DIRECTORY	CORPUS CHRISTI

1142 LAGUNA SHORES RD

1970	ANN DRURY REAL EST	COLE DIRECTORY	CORPUS CHRISTI
1970	JOHN L DRURY	COLE DIRECTORY	CORPUS CHRISTI
1970	JAMES W CARTER	COLE DIRECTORY	CORPUS CHRISTI

1201 LAGUNA SHORES RD

2019	COASTAL BEND REGIONAL ADVISORY	INFOUSA	SOUTH CENTRAL
2014	COASTAL BEND REGIONAL ADVISORY	INFOUSA	SOUTH CENTRAL

1206 LAGUNA SHORES RD

1970	DONNA M WIRTA	COLE DIRECTORY	CORPUS CHRISTI
1970	DAVID PHILLIPS	COLE DIRECTORY	CORPUS CHRISTI
1970	J R MCCONNELL JR	COLE DIRECTORY	CORPUS CHRISTI

1214 LAGUNA SHORES RD

1970	L E WYMAN	COLE DIRECTORY	CORPUS CHRISTI
------	-----------	----------------	----------------

1222 LAGUNA SHORES RD

1970	JAMES CRAWFORD	COLE DIRECTORY	CORPUS CHRISTI
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2141 LAGUNA SHORES RD

2008	KARSTENS JIM	INFOUSA	SOUTH CENTRAL
2002	KARSTENS JIM	INFOUSA	SOUTH CENTRAL

2233 LAGUNA SHORES RD

1995-96	APARTMENTS	COLE DIRECTORY	CORPUS CHRISTI
1989-90	ERIC LAUROICH	COLE DIRECTORY	CORPUS CHRISTI
1985-86	ERIC LAURICH	COLE DIRECTORY	CORPUS CHRISTI
1970	H E SAVOY	COLE DIRECTORY	CORPUS CHRISTI
1965	ERMA SAVOY	COLE DIRECTORY	CORPUS CHRISTI
1965	H E SAVOY	COLE DIRECTORY	CORPUS CHRISTI

City Directory Target Property Address

Laguna Shores Rd, Corpus Christi, TX 78412

2343 LAGUNA SHORES RD

1980	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1975	CASA DE MAR	COLE DIRECTORY	CORPUS CHRISTI
1975	ALFRED EWALD	COLE DIRECTORY	CORPUS CHRISTI

2401 LAGUNA SHORES RD

2008	FLOATILLA S A	INFOUSA	SOUTH CENTRAL
2002	FLOATILLA S A	INFOUSA	SOUTH CENTRAL
1995-96	S A FLOATILLA	COLE DIRECTORY	CORPUS CHRISTI
1989-90	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI
1989-90	S A FLOATILLA	COLE DIRECTORY	CORPUS CHRISTI
1985-86	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI
1980	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI
1980	SHELLY R HINES	COLE DIRECTORY	CORPUS CHRISTI
1975	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI
1970	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI
1965	WEJAY S BUNDARA	COLE DIRECTORY	CORPUS CHRISTI

2411 LAGUNA SHORES RD

1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1989-90	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1985-86	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1980	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1975	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI

2415 LAGUNA SHORES RD

1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1989-90	REV J H CARRUTHERS	COLE DIRECTORY	CORPUS CHRISTI
1985-86	REV J H CARRUTHERS	COLE DIRECTORY	CORPUS CHRISTI
1980	REV J H CARRUTHERS	COLE DIRECTORY	CORPUS CHRISTI
1975	REV J H CARRUTHERS	COLE DIRECTORY	CORPUS CHRISTI
1970	REV J H CARRUTHERS	COLE DIRECTORY	CORPUS CHRISTI
1970	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI

2444 LAGUNA SHORES RD

2019	CORPUS CHRISTI HOME INSPTN	INFOUSA	SOUTH CENTRAL
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City Directory Target Property Address**Laguna Shores Rd, Corpus Christi, TX 78412**

2008	HERRMANN A	INFOUSA	SOUTH CENTRAL
2002	HERRMANN A	INFOUSA	SOUTH CENTRAL
2002	JACKSON CLAY	INFOUSA	SOUTH CENTRAL
1995-96	S KENT BUTLER	COLE DIRECTORY	CORPUS CHRISTI
1989-90	S KENT BUTLER	COLE DIRECTORY	CORPUS CHRISTI
1989-90	S KENT BUTLER	COLE DIRECTORY	CORPUS CHRISTI
1985-86	MARK BUTLER	COLE DIRECTORY	CORPUS CHRISTI
1985-86	S KENT BUTLER	COLE DIRECTORY	CORPUS CHRISTI
1980	S KENT BUTLER	COLE DIRECTORY	CORPUS CHRISTI

2445 LAGUNA SHORES RD

2008	KINNETT M	INFOUSA	SOUTH CENTRAL
2002	KINNETT M L	INFOUSA	SOUTH CENTRAL

2501 LAGUNA SHORES RD

1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1989-90	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1985-86	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1980	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1975	CAPT M J CARTER	COLE DIRECTORY	CORPUS CHRISTI
1970	DON C PUCKETT	COLE DIRECTORY	CORPUS CHRISTI
1965	ALFRED M SPENCER	COLE DIRECTORY	CORPUS CHRISTI

2502 LAGUNA SHORES RD

2019	COASTAL BEND SM BREED RESCUE	INFOUSA	SOUTH CENTRAL
2014	COASTAL BEND SM BREED RESCUE	INFOUSA	SOUTH CENTRAL
2008	SISSON J	INFOUSA	SOUTH CENTRAL
2008	SISSON ROSS	INFOUSA	SOUTH CENTRAL
2002	SISSON JUDI	INFOUSA	SOUTH CENTRAL
2002	SISSON JUDI	INFOUSA	SOUTH CENTRAL
1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1989-90	NELL MCGINNIS	COLE DIRECTORY	CORPUS CHRISTI
1985-86	GEORGE MASTERS	COLE DIRECTORY	CORPUS CHRISTI
1980	EARL R SMITH	COLE DIRECTORY	CORPUS CHRISTI
1975	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1970	RUSSELL K PHELPS	COLE DIRECTORY	CORPUS CHRISTI

City Directory Target Property Address**Laguna Shores Rd, Corpus Christi, TX 78412**

1965	RUSSELL K PHELPS	COLE DIRECTORY	CORPUS CHRISTI
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2512 LAGUNA SHORES RD

2019	LAGUNA SHORES PET SALON	INFOUSA	SOUTH CENTRAL
2014	LAGUNA SHORES PET SALON	INFOUSA	SOUTH CENTRAL
2008	LAGUNA SHORES PET SALON	INFOUSA	SOUTH CENTRAL
2002	LAGUNA SHORES PET SALON	INFOUSA	SOUTH CENTRAL
1995-96	GILES K D REMOD	COLE DIRECTORY	CORPUS CHRISTI
1989-90	T&T TAXIDERMY	COLE DIRECTORY	CORPUS CHRISTI
1985-86	ALVIN BOND	COLE DIRECTORY	CORPUS CHRISTI
1985-86	N EISENHauer SCHL	COLE DIRECTORY	CORPUS CHRISTI
1980	MRS TROY A ALPIN	COLE DIRECTORY	CORPUS CHRISTI
1970	TROY ALPHIN	COLE DIRECTORY	CORPUS CHRISTI
1970	KELLYS AUTO REPR	COLE DIRECTORY	CORPUS CHRISTI

2513 LAGUNA SHORES RD

1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1989-90	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1985-86	DON WEINMANN	COLE DIRECTORY	CORPUS CHRISTI
1980	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1975	WAYNES LAWNMOWER	COLE DIRECTORY	CORPUS CHRISTI
1975	HERMAN O BIDWELL	COLE DIRECTORY	CORPUS CHRISTI
1965	IRVIN W HORNKOHL	COLE DIRECTORY	CORPUS CHRISTI
1965	PAULINE HORNKHOL	COLE DIRECTORY	CORPUS CHRISTI

2515 LAGUNA SHORES RD

2002	HASS K C	INFOUSA	SOUTH CENTRAL
------	----------	---------	---------------

2518 LAGUNA SHORES RD

1995-96	JUANITA BOYER	COLE DIRECTORY	CORPUS CHRISTI
1989-90	HAL HAMILTON	COLE DIRECTORY	CORPUS CHRISTI
1985-86	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1980	BRADY CARTER	COLE DIRECTORY	CORPUS CHRISTI
1975	FLORENCE O WHEELER	COLE DIRECTORY	CORPUS CHRISTI
1965	C E RUSH	COLE DIRECTORY	CORPUS CHRISTI

City Directory Target Property Address

Laguna Shores Rd, Corpus Christi, TX 78412

2519 LAGUNA SHORES RD

1995-96	MIKE ARWOOD	COLE DIRECTORY	CORPUS CHRISTI
1989-90	BRIAN JENKINS	COLE DIRECTORY	CORPUS CHRISTI
1989-90	SMITH JENKINS	COLE DIRECTORY	CORPUS CHRISTI
1985-86	BLLY RAY SCHWARTZ	COLE DIRECTORY	CORPUS CHRISTI
1985-86	FLOUR BLUFF TAXI	COLE DIRECTORY	CORPUS CHRISTI
1985-86	SPID TAXICAB	COLE DIRECTORY	CORPUS CHRISTI
1980	DONALD C WINKLEY	COLE DIRECTORY	CORPUS CHRISTI
1975	LYNN G MCDONALD	COLE DIRECTORY	CORPUS CHRISTI
1970	LYNN G MCDONALD	COLE DIRECTORY	CORPUS CHRISTI
1965	LYNN G MCDONALD	COLE DIRECTORY	CORPUS CHRISTI

2705 LAGUNA SHORES RD

2014	THIRD COAST REMODELING	INFOUSA	SOUTH CENTRAL	
2008	TEXAS EXCURSIONS	INFOUSA	SOUTH CENTRAL	
2008	THIRD COAST REMODELING	INFOUSA	SOUTH CENTRAL	
2002	ALLEN WALLACE	INFOUSA	SOUTH CENTRAL	
2002	TEXAS EXCURSIONS	# A	INFOUSA	SOUTH CENTRAL
1995-96	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI	
1995-96	WILLIAM HILL	COLE DIRECTORY	CORPUS CHRISTI	
1995-96	TEXAS EXCURSIONS	COLE DIRECTORY	CORPUS CHRISTI	
1989-90	WILLIAM HILL	COLE DIRECTORY	CORPUS CHRISTI	
1989-90	JERRY DUFF	COLE DIRECTORY	CORPUS CHRISTI	
1989-90	JERRYS FISH MKT&CF	COLE DIRECTORY	CORPUS CHRISTI	
1989-90	TEXAS EXCURSIONS	COLE DIRECTORY	CORPUS CHRISTI	
1985-86	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI	
1975	BOBS FISH MARKET	COLE DIRECTORY	CORPUS CHRISTI	
1970	E R ANDREWS	COLE DIRECTORY	CORPUS CHRISTI	
1965	MORROWS RED FSH CP	COLE DIRECTORY	CORPUS CHRISTI	
1965	SUSAN MORROW	COLE DIRECTORY	CORPUS CHRISTI	

2706 LAGUNA SHORES RD

1980	FLOUR BLUFF FISH	COLE DIRECTORY	CORPUS CHRISTI
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3029 LAGUNA SHORES RD

2019	GULLY'S	INFOUSA	SOUTH CENTRAL
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City Directory Target Property Address

Laguna Shores Rd, Corpus Christi, TX 78412

2233 1/2 LAGUNA SHORES RD

1995-96	M WEAVER	COLE DIRECTORY	CORPUS CHRISTI
1995-96	TYE WEAVER	COLE DIRECTORY	CORPUS CHRISTI
1989-90	M WEAVER	COLE DIRECTORY	CORPUS CHRISTI

2501 1/2 LAGUNA SHORES RD

1985-86	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1980	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
1975	BRADY CARTER	COLE DIRECTORY	CORPUS CHRISTI

Comment:

City Directory Target Property Address

Target Property:

*Hustlin Hornet Dr,
Corpus Christi, TX 78412*

Prepared For:

Hanson Professional Services

Order #: 157276

Project #: 19L0247A02

Date: 11/13/2020

City Directory Target Property Address

Hustlin Hornet Dr, Corpus Christi, TX 78412

1 HUSTLIN HORNET DR

2019	STREET BEGINS	INFOUSA	SOUTH CENTRAL
2014	STREET BEGINS	INFOUSA	SOUTH CENTRAL
2008	STREET BEGINS	INFOUSA	SOUTH CENTRAL
2002	STREET BEGINS	INFOUSA	SOUTH CENTRAL
1995-96	STREET NOT LISTED	COLE DIRECTORY	CORPUS CHRISTI
1989-90	STREET NOT LISTED	COLE DIRECTORY	CORPUS CHRISTI

1 NO # HUSTLIN HORNET DR

2002	FLOUR BLUFF ELEMENTARY SCHOOL	INFOUSA	SOUTH CENTRAL
2002	FLOUR BLUFF JUNIOR HIGH SCHOOL	INFOUSA	SOUTH CENTRAL
2002	FLOUR BLUFF PRIMARY SCHOOL	INFOUSA	SOUTH CENTRAL
2002	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL

37 HUSTLIN HORNET DR

2019	FLOUR BLUFF INTERMEDIATE SCH	INFOUSA	SOUTH CENTRAL
2014	FLOUR BLUFF INTERMEDIATE SCHL	INFOUSA	SOUTH CENTRAL

207 HUSTLIN HORNET DR

2019	FLOUR BLUFF JUNIOR HIGH SCHOOL	INFOUSA	SOUTH CENTRAL
2014	FLOUR BLUFF JUNIOR HIGH SCHOOL	INFOUSA	SOUTH CENTRAL
2008	FLOUR BLUFF JUNIOR HIGH SCHL	INFOUSA	SOUTH CENTRAL

537 HUSTLIN HORNET DR

2019	FLOUR BLUFF PRIMARY SCHOOL	INFOUSA	SOUTH CENTRAL
2019	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL
2014	FLOUR BLUFF PRIMARY SCHOOL	INFOUSA	SOUTH CENTRAL
2014	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL
2008	FLOUR BLUFF PRIMARY SCHOOL	INFOUSA	SOUTH CENTRAL
2008	X [END OF LISTING]	INFOUSA	SOUTH CENTRAL

Comment:

Exhibit F

Fire Insurance Map Report

Fire Insurance Map Abstract

Target Property:

***Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418***

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383807

Project #: 19L0247A02

Date: 11/17/2020

Fire Insurance Map Research Results

Date: 11/17/2020
GS Job Number: 157276
Company Name: Hanson Professional Services
Project Number: 19L0247A02
Site Information: Laguna Shores Redhead Pond Phase I ESA

Corpus Christi, Texas 78418

Research Results: No Coverage Available

The collections of fire insurance maps listed below were reviewed according to the site information supplied by client. Based on the information provided, no coverage is available.

Library of Congress
University Publications of America
Other Libraries (universities, state, local, etc.).

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Exhibit G

Environmental Lien Search



Environmental Lien

Target Property:

***Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418***

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383802

Project #: 19L0247A02

Date: 11/17/2020

TARGET PROPERTY SUMMARY

Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418

USGS Quadrangle: **Oso Creek Ne, TX**

Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):

(-97.288103, 27.644307), (-97.287315, 27.643915), (-97.288457, 27.641946), (-97.289388, 27.642375),
(-97.289677, 27.641904), (-97.287882, 27.641038), (-97.287296, 27.641889), (-97.286728, 27.641599),
(-97.286424, 27.642010), (-97.285903, 27.641756), (-97.285577, 27.642244), (-97.284199, 27.641579),
(-97.284348, 27.641717), (-97.284482, 27.641752), (-97.284227, 27.641884), (-97.283928, 27.641944),
(-97.283933, 27.642048), (-97.285326, 27.642705), (-97.284770, 27.643625), (-97.287656, 27.645028),
(-97.288103, 27.644307)

County/Parish Covered:

Nueces (TX)

Zipcode(s) Covered:

Corpus Christi TX: 78418

State(s) Covered:

TX

Disclaimer - The information provided in this report was obtained from a variety of public sources. GeoSearch cannot ensure and makes no warranty or representation as to the accuracy, reliability, quality, errors occurring from data conversion or the customer's interpretation of this report. This report was made by GeoSearch for exclusive use by its clients only. Therefore, this report may not contain sufficient information for other purposes or parties. GeoSearch and its partners, employees, officers and independent contractors cannot be held liable for actual, incidental, consequential, special or exemplary damages suffered by a customer resulting directly or indirectly from any information provided by GeoSearch.

ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Nueces County Records Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 233078, Corpus Christi, TX. and find the following:

None found

We have done a search of Nueces County Records Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 233078, Corpus Christi, TX. and find the following:

None found

Exhibit H

Oil and Gas Report and Records

GeoPlus Oil & Gas Report

[GeoLens by GeoSearch](#)

Target Property:

**Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418**

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383806

Project #: 19L0247A02

Date: 11/16/2020

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<i>Site Summary By Database</i>	5
<i>Oil & Gas Well Report</i>	6
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Disclaimer

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Target Property Summary

Target Property Information

Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Texas 78418

Coordinates

Area centroid (-97.286787, 27.6428712)

USGS Quadrangle

Oso Creek Ne, TX

Geographic Coverage Information

County/Parish: Nueces (TX)

ZipCode(s):

Corpus Christi TX: 78418

Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OG	0.5000	1	5	2	6	NS	NS	14

SUB-TOTAL		1	5	2	6	0	0	14
-----------	--	---	---	---	---	---	---	----

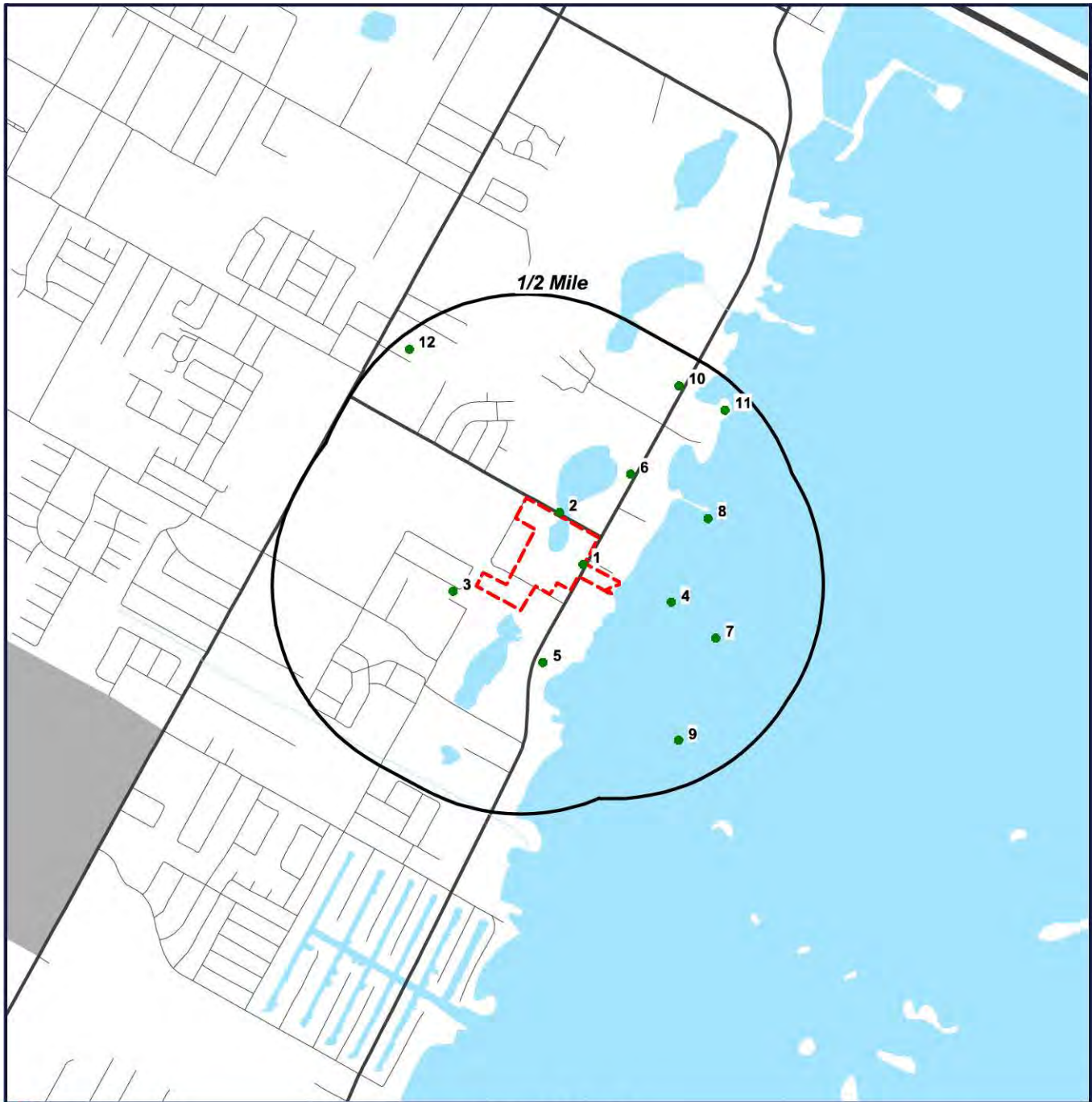
TOTAL		1	5	2	6	0	0	14
-------	--	---	---	---	---	---	---	----

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS WELL MAP



- Target Property (TP)
- Surface Location

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
1	OG	34254	TP		
2	OG	34255	0.024 mi. NNE (127 ft.)		
3	OG	34189	0.057 mi. W (301 ft.)		
4	OG	34259	0.107 mi. E (565 ft.)		
4	OG	34264	0.122 mi. ESE (644 ft.)		
4	OG	34265	0.130 mi. E (686 ft.)		
5	OG	34262	0.122 mi. SSE (644 ft.)		
6	OG	34257	0.190 mi. NNE (1003 ft.)		
7	OG	34260	0.261 mi. ESE (1378 ft.)		
8	OG	34258	0.276 mi. ENE (1457 ft.)		
9	OG	34263	0.375 mi. SSE (1980 ft.)		
10	OG	34253	0.438 mi. NNE (2313 ft.)		
11	OG	34256	0.455 mi. NE (2402 ft.)		
12	OG	34186	0.479 mi. NW (2529 ft.)		

Site Summary By Database

Map ID#	Database Name	Site ID#	Elevation	Distance From Site	Site Name	Address
1	OG	34254	2 ft.	TP		
2	OG	34255	0 ft.	0.024 mi. NNE (127 ft.)		
3	OG	34189	9 ft.	0.057 mi. W (301 ft.)		
4	OG	34259	0 ft.	0.107 mi. E (565 ft.)		
4	OG	34264	0 ft.	0.122 mi. ESE (644 ft.)		
4	OG	34265	0 ft.	0.130 mi. E (686 ft.)		
5	OG	34262	1 ft.	0.122 mi. SSE (644 ft.)		
6	OG	34257	5 ft.	0.190 mi. NNE (1003 ft.)		
7	OG	34260	0 ft.	0.261 mi. ESE (1378 ft.)		
8	OG	34258	0 ft.	0.276 mi. ENE (1457 ft.)		
9	OG	34263	0 ft.	0.375 mi. SSE (1980 ft.)		
10	OG	34253	3 ft.	0.438 mi. NNE (2313 ft.)		
11	OG	34256	0 ft.	0.455 mi. NE (2402 ft.)		
12	OG	34186	13 ft.	0.479 mi. NW (2529 ft.)		

Oil & Gas Well Report

MAP ID	SURFACE ID	API #	WELL TYPE	WELL NUMBER	GAS-RRCID	REFER-TO-API	LATITUDE	LONGITUDE
1	34254	35503108	OIL WELL	03108	05176	00000000	27.642944420	-97.285385240
2	34255	35581875	OIL WELL	81875	000000	00301000	27.644784730	-97.286336170
3	34189	355	DRY HOLE	NR	NR	NR	27.641990090	-97.290596220
4	34259	35503128	PLUGGED OIL/GAS WELL	03128	064761	00000000	27.641663010	-97.282214580
4	34264	35580475	CANCELED LOCATION	80475	05335	00000000	27.637956040	-97.277072870
4	34265	35506615	PLUGGED GAS WELL	06615	17201	00000000	27.640537180	-97.273157720
5	34262	355	PLUGGED OIL WELL	NR	NR	NR	27.639465740	-97.286990550
6	34257	355	PLUGGED OIL/GAS WELL	NR	NR	NR	27.646140010	-97.283492230
7	34260	35503125	PLUGGED OIL/GAS WELL	03125	13522	00000000	27.640320700	-97.280076640
8	34258	35503129	PLUGGED OIL/GAS WELL	03129	00119	00000000	27.644580110	-97.280383870
9	34263	35580473	PLUGGED OIL WELL	80473	05335	00000000	27.636693630	-97.281549840
10	34253	35503100	PLUGGED OIL/GAS WELL	03100	04505	00000000	27.649288300	-97.281547320
11	34256	35503130	PLUGGED OIL/GAS WELL	03130	20638	00000000	27.648428060	-97.279692880
12	34186	355	PLUGGED OIL/GAS WELL	NR	NR	NR	27.650573200	-97.292362410

Environmental Records Definitions - STATE (TX)

OG

Oil and Gas Wells with Pipelines

VERSION DATE: 07/20/20

This oil and gas well and pipeline data set is provided by the Geographic Information System of the Railroad Commission of Texas (the Commission). The data set includes oil and gas well records dating back to the early 1960's, some wells prior to the 1960's are also included with no API and/or a historical API number in place. Please note, GeoSearch well data represents only surface locations per well; our data does not reflect bottom hole locations per well. Also, this data set includes information on natural gas, crude oil, and refined products pipelines. GIS maps may not be used for pipeline location purposes in lieu of calling an official notification center prior to excavating. It is a violation of Texas law to fail to make the required 8-1-1 calls. The Commission shall not be held liable for use of this data, which is provided as a public service for informational purposes only. Users are responsible for checking the accuracy, completeness, currency, and/or suitability of this data set themselves.

GIS Identify Results - Well Location Attributes

Number of identify results: 1

Print

Result #1	
API	35503108
GIS WELL NUMBER	1
GIS SYMBOL DESCRIPTION	Oil Well
GIS LOCATION SOURCE	U.S.G.S 7.5-min. quadrangle or aerial photograph
GIS LAT (NAD27)	27.642631
GIS LONG (NAD27)	-97.285118
GIS LAT (NAD83)	27.642944
GIS LONG (NAD83)	-97.285385
Well Logs	Drilling Permits
	Disposal Permits

OPERATOR/WELLBORE	
WELLBORE STATUS	HISTORIC
LAST PERMIT ISSUED	
LAST PERMIT OPERATOR NUMBER	
LAST PERMIT OPERATOR	
LAST PERMIT LEASE NAME	
TOTAL DEPTH	0
SURFACE LOCATION	Land
ABSTRACT	
SURVEY	
BLOCK	
SECTION	
DISTANCE 1	
DIRECTION 1	
DISTANCE 2	
DIRECTION 2	

[Oil/Gas Imaged Records for API:35503108](#)

COMPLETION RECORD	
PRORATION SCHEDULE	OIL
DISTRICT	04
LEASE/ID	00835
OPERATOR NUMBER	257097
OPERATOR	EXXON CORP.
LEASE NAME	
FIELD	FLOUR BLUFF, EAST (MASSIVE, UP.)
WELL NUMBER	1
TYPE WELL	HISTORY
ON SCHEDULE	NO
production data query(pdq)	oil/gas imaged records for lease/id: 00835

010835

8211:129

FEB 17 1967

PRODUCER'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

FIELD Flour Bluff, East (Massive, Upper) Flour Bluff & Encino Subdiv COUNTY NuecesOPERATOR Humble Oil & Refining Company LEASE NO. 00835 W. R. Duncan
LEASE NAME

RESERVOIR (For Gas Wells) _____ WELL NO. (For Gas Wells) _____

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Humble Oil & Refining CompanySTREET Wilson Tower CITY Corpus Christi STATE TexasThe above named operator hereby authorizes Humble Pipe Line Company whose principal place of businessis P. O. Box 2220, Houston, Texas and whose field address is 414 Lantana Street
(Street) (City) (State)Corpus Christi, Texas to transport 100 % of the Oil produced from the lease designated above untilfurther notice. Other gatherers transporting Oil from this lease are:CONDENSATE
GAS WELL GAS
CASINGHEAD GASNone

(Name of Gatherer)

(Name of Gatherer)

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

EXECUTED THIS THE 10th DAY OF February, 1967

HUMBLE OIL & REFINING COMPANY

Grady Copia

Proration Specialist

STATE OF TEXAS)
COUNTY OF _____)

Before me, the undersigned authority, on this day personally appeared _____, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED and sworn to before me this the _____ day of _____, 19____.

(Seal) _____ Notary Public in and for _____ County, Texas

Registered in office of Railroad Commission of Texas at Austin, City _____ day of _____, 19____.

RAILROAD COMMISSION OF TEXAS

FEB 16 1967

INSTRUCTIONS: Separate authorization is required for each person transporting oil or gas from the lease, and in the event of a split connection show in authorization what portion of the oil or gas each person is authorized to transport. Each and every producer of crude oil and natural gas in the State of Texas shall execute under oath a report on Form SW-1 authorizing a gatherer (whether himself or some one else) to transport the oil or gas from the properties of such producer and shall file said report in the office of the Railroad Commission of Texas in the district in which such properties are located in FOUR DUPLICATE ORIGINALS. After the Railroad Commission agent in charge has registered such report and placed thereon the Commission's SW-1 Serial Number, two copies of such report shall be returned to the producer making the report or his duly authorized agent, one of such copies so returned to be delivered by the producer to the gatherer authorized to transport oil or gas. Each producer shall file a separate report for each lease and for each gatherer transporting oil or gas from said lease. After the producer has filed with the Commission said report on Form SW-1, it shall bind said producer until cancelled by him, and it shall not be necessary for the producer after filing his first report on Form SW-1 to file with the Commission any subsequent authorization report on said Form until (a) operating ownership changes, (b) the lease is subdivided or consolidated in which event SW-1 must be accompanied by a revised lease plat showing the changes, (c) gatherer is to be changed, or (d) the certificate of compliance and authorization to transport oil or gas has been cancelled by the Commission. An oil or gas shall be moved from any lease until said report on Form SW-1 is completely executed, filed with, and registered by the Commission's agent. This Certificate and Authorization may be revoked by the Railroad Commission of Texas at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

Form 1 Notice of Intention to Drill Filed in the Name of Humble Oil & Refining Company W. R. Duncan
(Operator) (Lease)

INDICATE PURPOSE OF FILING

NEW LEASE: _____

CHANGE OF OPERATING NAME FROM: _____

CHANGE OF LEASE NAME FROM: _____

CHANGE OF GATHERER FROM: _____

CONSOLIDATION-SUBDIVISION OF LEASE/S: _____

EFFECTIVE DATE: February 1, 1967
(Required on all except new leases)REMARKS: Change field name from East Flour Bluff

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FEB 17 1967

Form SW-1
(Amended 1-13-58)

PRODUCER'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Flour Bluff & Encino
Flour Bluff, East (Massive, Upper) SURVEY Subdivision COUNTY NuecesHumble Oil & Refining Company LEASE (No. 00835) W. R. Duncan
LEASE NAME

OIL (For Gas Wells) WELL NO. (For Gas Wells)

SEND ALL CORRESPONDENCE CONCERNING THIS FORM TO: Humble Oil & Refining Company

KT Wilson Tower CITY Corpus Christi STATE Texas

above named operator hereby authorizes Humble Oil & Refining Company whose principal place of business

P. O. Box 2180, Houston, Texas and whose field address is P. O. Box 672
(Street) (City) (State)

Kingville, Texas to transport 100 % of the produced from the lease designated above until

OIL
CONDENSATE
GAS WELL GAS
CASSINGHEAD GAS

Further notice. Other gatherers transporting from this lease are:

None

(Name of Gatherer)

(Name of Gatherer)

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

EXECUTED THIS THE 10th DAY OF February, 1967.

Humble Oil & Refining Company

Grady Coyle (Agent)

STATE OF TEXAS,
COUNTY OF)

Before me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

SUBSCRIBED and sworn to before me this the _____ day of _____, 19____.

(Seal) _____ Notary Public in and for _____ County, Texas

Registered in office of Railroad Commission of Texas at Austin, this _____ day of _____, 19____.

RAILROAD COMMISSION OF TEXAS

By _____ Agent

INSTRUCTIONS: Separate authorization is required for each person transporting oil or gas from the lease, and in the event of a split connection show in authorization what portion of the oil or gas each person is authorized to transport. Each and every producer of crude oil and natural gas in the State of Texas shall execute under oath a report on Form SW-1 authorizing a gatherer (whether himself or some one else) to transport the oil or gas from the properties of such producer and shall file said report in the office of the Railroad Commission of Texas in the district in which such properties are located in FOUR DUPLICATE ORIGINALS. After the Railroad Commission agent in charge has registered such report and placed thereon the Commission's SW-1 Serial Number, two copies of such report shall be returned to the producer making the report or his duly authorized agent, one of such copies to be returned to be delivered by the producer to the gatherer authorized to transport oil or gas. Each producer shall file a separate report for each lease and for each gatherer transporting oil or gas from said lease. After the producer has filed with the Commission said report on Form SW-1, it shall bind said producer until cancelled by him, and it shall not be necessary for the producer after filing his first report on Form SW-1 to file with the Commission any subsequent authorization report on said Form until (a) operating ownership changes, (b) the lease is subdivided or consolidated in which event SW-1 must be accompanied by a revised lease plat showing the changes, (c) gatherer is to be changed, or (d) the certificate of compliance and authorization to transport oil or gas has been cancelled by the Commission. No oil or gas shall be moved from any lease until said report on Form SW-1 is completely executed, filed with, and registered by the Commission's agent. This Certificate and Authorization may be revoked by the Railroad Commission of Texas at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

Form 1 Notice of Intention to Drill Filed in the Name of Humble Oil & Refining Company W. R. Duncan
(Operator) (Lease)

INDICATE PURPOSE OF FILING

NEW LEASE:

CHANGE OF OPERATING NAME FROM:

CHANGE OF LEASE NAME FROM:

CHANGE OF GATHERER FROM:

CONSOLIDATION/SUBDIVISION OF LEASE/S:

EFFECTIVE DATE: February 1, 1967

(Required on all except new lease)

REMARKS: Change field name from East Flour Bluff.

If an SW-1 Form has been executed on this lease previously, show in the space below the serial number then assigned to it by the Commission:
COMMISSION'S SERIAL NUMBER SW-1. 412253
Strike out inapplicable terms.

FEB 17 1967

PRODUCER'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

FIELD Flour Bluff, East (Massive, Upper) SURVEY Flour Bluff & Encino Subdivision COUNTY NuecesOPERATOR Humble Oil & Refining Company LEASE NO. 00835 W. R. DUNCAN
LEASE NAME

RESERVOIR (For Gas Wells) _____ WELL NO. (For Gas Wells) _____

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Humble Oil & Refining CompanySTREET Wilson Tower CITY Corpus Christi STATE TexasThe above named operator hereby authorizes Humble Oil & Refining Company whose principal place of businessis P. O. Box 2180, Houston, Texas and whose field address is P. O. Box 672
(Street) (City) (State)Kingsville, Texas to transport 100 % of the oil, condensate, gas well gas, casinghead gas produced from the lease designated above untilfurther notice. Other gatherers transporting oil, condensate, gas well gas, casinghead gas from this lease are:None

(Name of Gatherer)

(Name of Gatherer)

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

EXECUTED THIS THE 10th DAY OF February, 1967.Humble Oil & Refining CompanyGrady Coyle (Agent)STATE OF TEXAS,)
COUNTY OF _____)

I declare me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

SUBSCRIBED and sworn to before me this the _____ day of _____, 19____.

(Notary) _____ Notary Public in and for _____ County, Texas

Registered in office of Railroad Commission of Texas at Austin, this _____ day of _____, 19____.

RAILROAD COMMISSION OF TEXAS

By Grady Coyle Agent

INSTRUCTIONS: Separate authorization is required for each person transporting oil or gas from the lease, and in the event of a split connection show in authorization what portion of the oil or gas each person is authorized to transport. Each and every producer of crude oil and natural gas in the State of Texas shall execute under oath a report on Form SW-1 authorizing a gatherer (whether himself or some one else) to transport the oil or gas from the properties of such producer and shall file said report in the office of the Railroad Commission of Texas in the District in which such properties are located in FOUR DUPLICATE ORIGINALS. After the Railroad Commission agent in charge has registered such report and placed thereon the Commission's SW-1 Serial Number, two copies of such report shall be returned to the producer making the report or his duly authorized agent, one of such copies so returned to be delivered by the producer to the gatherer authorized to transport oil or gas. Each producer shall file a separate report for each lease and for each gatherer transporting oil or gas from said lease. After the producer has filed with the Commission said report on Form SW-1, it shall bind said producer until cancelled by him, and it shall not be necessary for the producer after filing his first report on Form SW-1 to file with the Commission any subsequent authorization report on said Form until (a) operating ownership changes, (b) the lease is subdivided or consolidated in which event SW-1 must be accompanied by a revised lease plat showing the changes, (c) gatherer is to be changed, or (d) the certificate of compliance and authorization to transport oil or gas has been cancelled by the Commission. No oil or gas shall be moved from any lease until said report on Form SW-1 is completely executed, filed with, and registered by the Commission's agent. This Certificate and Authorization may be revoked by the Railroad Commission of Texas at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

Form 1 Notice of Intention to Drill Filed in the Name of Humble Oil & Refining Company W. R. DUNCAN
(Operator) (Leasee)

INDICATE PURPOSE OF FILING

NEW LEASE: _____

CHANGE OF OPERATING NAME FROM: _____

CHANGE OF LEASE NAME FROM: _____

CHANGE OF GATHERER FROM: _____

CONSOLIDATION/SUBDIVISION OF LEASE/S: _____

EFFECTIVE DATE: February 1, 1967
(Required on all except new leases)REMARKS: Change field name from East Flour Bluff.

This Form must be filed in District Office not later than 10 days after date of completion of test or penalty enforced. Do not take test in period of time less than specified by field rules.

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

FURNISH ALL DATA IN FULL-DO NOT USE ESTIMATES
(See Instructions on Reverse Side)

FORM 3
Potential Test Form
Date of Receipt in
District Office
1-1958

FIELD NAME: Flour Bluff RRC DISTRICT NUMBER: 4
(Use Name by which this Field designated on current Proration Schedule.)

NAME OF OPERATOR: Humble Oil & Refining Co.
(Use Name as will appear on your E.O. Report in reporting Production.)

NAME OF LEASE: W. R. Dutton LEASE NUMBER: 2085 WELL NO. 1

ADDRESS: Copied Christ, Texas SECTION: Flour Bluff BLOCK: 4
(City and State) (Original Sub Div.)

P. O. BOX NO. Wilson, Texas SURVEY: 13' DE ELEVATION: 13' DE

COUNTY IN WHICH WELL IS LOCATED: Yucca Unit Designation: Ac. in Unit

18 Miles South direction from Copied Christ, Texas nearest postoffice or town.

Date potential test commenced: March 4 1945 Hour: 9:00 A. M.

Date potential test completed: March 5 1945 Hour: 9:00 A. M.

Has this lease changed operating names within the last 60 days? No If so, what was the previous operating name?

Has the Log of this well been filed with Deputy Supervisor? Yes Date Log Filed: March 7, 1945

DATA ON POTENTIAL TEST

Data Necessary on Flowing Well

Flowing pressure on csg: Sealed

Flowing pressure on lbg: 1550#

Length of test: 24 Hrs. No Mins.

Size choke: 1/8" Make choke: Th. Pos.

Was this well flowed for the entire duration of this test without the use of swab or other artificial flowing device? Yes

Is this well being jetted? No

If being jetted, how many cubic feet of gas is being used to one barrel of oil recovered?

Oil producing during this test into: Sealed (Tank or Pit)

Date this well was last shot or acidized:

Barrels of oil produced from this well since shot or treatment to time this test was started
(Answer only if this Test was occasioned by shooting or treating this well.)

Barrels of oil produced from this well from its completion date or reworked completion date to the beginning of this test
(Applies to new and reworked wells only.)

Percent water produced during this test: 44%

Is this a test of a new well for which no previous allowable has been assigned? No

Is this a plain retest (not a workover job) of a well which has a current allowable assigned? Yes

What is the 24-hour potential at which it is carried currently on proration schedule? 80

If this test is the result of a workover what was the nature of the job?

Hour well completed: 2:30 A. M. Date well completed: August 22, 1945

Data Necessary on Pumping Well

Make of Pumping Unit: Hummer

Length of stroke used: 48"

No. strokes per minute: 10

Size working barrel: 10"

Length of test: 24 Hrs. No Mins.

Date Necessary for Settlement of Centrifugal Pumping Wells

Motor Size: 10 H.P. Pump Model: Hummer

Pump Rating: 10 P.D. Total Fluid at: Head

Setting Depth: Tubing Size

Length of test: 24 Hrs. No Mins.

Was any oil produced from this well during this test lifted from the reservoir to the surface of the ground by the use of any device or means the use of which is not prescribed by the Railroad Commission in establishing potentials?

Name of P.L. Connection: Humble Oil & Refining Co.

If Shot: No Quarts used: No Gallons used: No

If Acidized: No Gallons used: No

TEST PRODUCTION DATA

(Furnish Tank Numbers, Size, Avg. Bbls. per Ft., and all Gauges in Ft. and In. and Bbls.)
(Indicate manner in which production arrived at by placing result in proper column.)

TANK No.	SIZE	BBL'S. PER FOOT	GAUGE				PRODUCTION COMPUTED			PRODUCTION 99% Tank Tables	PRODUCTION 100% Tank Tables
			LOW		HIGH		Feet	In.	Bbls.		
			Feet	In.	Feet	In.					
5565	500	37.04	10	1 1/2	11	6	1	4 1/2	45.50		45.50 19.44 W.G.

RESULT OF THIS POTENTIAL TEST (Bbls. of Crude oil per 24 hours): 25.47 (100% Tank. Tbl.)

GAS/OIL RATIO OF THIS WELL IS: 14.64 Cubic ft. of gas per barrel of Crude Oil

Gravity of oil produced during this test (Corrected to A.P.L. 60 degrees): 46.5

(OVER)

DATA ON WELL COMPLETION

"Notice of Intention to Drill" this well was filed in the name of Shumble Oil & Refining Co.
 Date "Drilling, Plug Back or Deepening Permit" was issued July 3, 1946
 Is Location "REGULAR," or was "SPECIAL PERMIT" required? Regular
 If special permit was secured what is permit number? _____
 Total number of acres in this lease 6.5
 Number of crude oil producing wells on this lease in this field, including the well on which this potential was taken 1

Location of well, relative to lease boundaries of lease on which this well is located: 330 feet from North
 line and 530 feet from West line of the Shumble lease
 Size of surface casing 10 3/4" Number feet of surface casing set 1112'
 Size of oil string 5 1/2" Number of feet of oil string run 6847.80
 Type of tubing head M. E. Perry Type of Bradenhead M. E. Perry
 Top of pay 6801 Ft. Total Depth 7074 Ft. Size tubing run 2" EUE
 Perforated from 6794 to 6802 No. Shots _____ No. ft. tubing run 6726.26'
 Kind of fuel used to drill this well Gas Amt. of fuel used 15,000 MCF
 Where fuel was secured Shumble's Island Bluff and Fuel Station

INSTRUCTIONS: All potential test forms, WITH ALL INFORMATION REQUESTED THEREON FILLED IN, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable form within the ten (10) days as specified then the effective date of the allowance resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test form in the office of the Deputy Supervisor. This ten-day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the office of the Deputy Supervisor or any prior month.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING.

We, the undersigned, witnessed this test and the top and bottom gauges of each tank into which production was run during duration of this test.

D. J. McGinnis Representative of Company making test
C. B. Smith Representative of Offset Operator for Shumble Oil & Refining Co. Offset Operator
 _____ for _____ Pipe Line Gauger
 _____ for _____ Pipe Line Company

Representative of the Railroad Commission _____

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this potential test were complied with and carried out in full, and that all data and facts set forth on both sides of this form are true and correct.

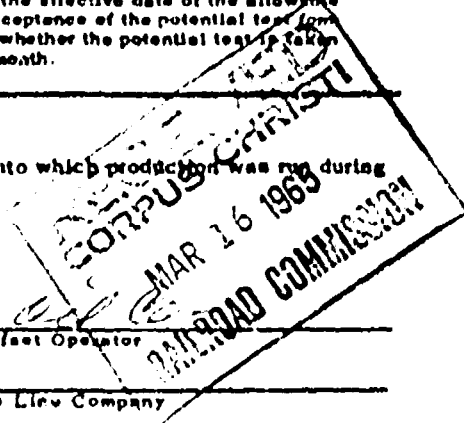
_____ for Shumble Oil & Refining Co.
 Representative of Company making test Company making test

SWORN TO AND SUBSCRIBED before me this the 15th day of March, 19 46

(Notary Seal)

Notary Public in and for Shumble County, Texas

REMARKS: _____



00010202320

00835

0 0 0 1 1 2 2 3 2 1

COMMISSION STATEWIDE ORDER NO. 20-62,502 DATED NOVEMBER 15, 1972
AUTHORIZED NAME CHANGES FROM HUMBLE OIL & REFINING CO. TO EXXON
CORP. AND HUMBLE PIPE LINE COMPANY TO EXXON PIPELINE COMPANY
WITHOUT FILING OF COMMISSION FORM P-4 TO BE EFFECTIVE JANUARY 1, 1973.

DISTRICT- 4 FIELD FLOUR BLUFF, EAST (MASSIVE - UP) FLD. NO. - 31583 650
OPERATOR-EXXON CORP. OPR NO. - 257097
LSE NO. 100835 OIL LEASE-DUNCAN, W. R.
GATHERERS OIL-EXXON

PERMANENT RECORD CHANGE NOTICE - FILED IN LIEU OF FORM P-4

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISIONForm P-4
(1-1-71)Producer's Certificate of Compliance and Authorization to Transport Oil and/or
Casinghead Gas From an Oil Lease or Gas and/or Condensate from a Gas Well.

Field Name (As per RRC records)

Flour Bluff, East (Massive Upper)

Lease Name

W. R. Duncan

Operator Name

Exxon Corporation

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

RRC District

Four

Case No.

00835

RRC Gas Well Ident. No.

Gas Well No.

Effective Date

January 1, 1973

County

Nueces

Survey Flour Bluff 6

Principal Subdivision

GATHERERS

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

City, State, Zip Code

Corpus Christi, Texas 78401

Gatherer Name

Exxon Corporation

EXXON

100 %

Address

Wilson Tower

INDICATE PURPOSE OF FILING

☒ New Oil Lease or Gas Well. Form W-1 (Application for Permit to Drill, Deepen or Plug Back) filed in the name of:

has in and through this report of production and operations been filed in the name of:

Operator

Lease

☐ Change of Gatherer☐ Change field name from☒ Change operator name from Humble Oil & Refining Company☐ Change lease name from☐ Consolidation or subdivision of lease (Attachments required - See instructions.)

Previous Form P-4 approval date if filed (or prior SW-1 number)

mo.

day

yr.

SW-1 Number or Date

REMARKS:

AUTHORIZATION BY CURRENT OPERATOR

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

2-28-73

Grady Doyle

Grady Doyle

Proration Specialist

Title

512 884-4571

Area Code & Telephone No.

OPERATOR NAME CHANGE (Acknowledgment required on change of operator.)

The undersigned, being the previous operator, has transferred operating responsibility on the above property.

Previous

Operator

Signature

Address

Title

City, State

& Zip Code

Date

Area Code & Telephone No.

FOR RRC USE ONLY

Field No.

Operator No.

Approved

J. C. Bouchard

MAR 01 1973

INSTRUCTIONS

1. Each and every operator of oil, gas and/or condensate producing properties in the State of Texas shall file with the proper RRC District Office three (3) copies plus one additional copy for each gatherer shown on this form authorizing the gatherer(s) (whether himself or someone else) to transport the oil, gas and/or condensate from the properties of such producer.
2. Authorization is required for each person or gatherer transporting oil, gas and/or condensate from an oil lease or gas well. In the case of a split connection, the percentage of oil, gas and/or condensate each gatherer is authorized to transport shall be shown.
3. Each operator shall file a separate form for each oil lease or gas well listing all authorized gatherers for this oil lease or gas well on one form. Effective date is required, to be shown on all changes, but not necessary on a new lease or well.
4. No oil, gas and/or condensate shall be moved from any oil lease or gas well until this form is completed and filed with the proper RRC District Office.

After the RRC agent in charge has approved this form, two (2) copies will be retained by the RRC and the remaining copies will be distributed to the producer and to each gatherer.

5. After an operator has filed this form with the RRC, thereby establishing himself as the current operator, it shall bind said operator until cancelled by him or revoked by the RRC. A new Form P-4 shall be filed if there is: (a) change in operator, (b) change in gatherer(s), (c) change in field name, (d) change in lease name, (e) consolidation or subdivision of lease(s), or (f) authorization to transport production has been cancelled by the RRC. (When consolidating or sub-dividing, attach to each copy of Form P-4 a CC Form with a BEFORE and AFTER plat of lease showing changes. Plat should show distance to lease line and between wells along with proration units assigned if acreage is in the field's allocation formula.)
6. If this form is filed because of or includes a change in operator name, the new operator will be the current operator and will execute this form. The proper lines under "Indicate Purpose of Filing" shall be checked and completed. Authorization to the gatherer(s) shall be by the new or current operator. The previous operator is required to execute the "Operator Name Change Acknowledgment" before the RRC records will be changed.
7. This authorization may be revoked by the RRC at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

NOTE: FILING OF FORM P-5 (ORGANIZATION REPORT) SHOWING EXACT OPERATING NAME IS REQUIRED FOR ALL NEW OPERATORS AND/OR ORGANIZATION CHANGES.

32 DIGITS (SPACES) IS THE LIMITATION FOR OPERATING AND LEASE NAMES. ABBREVIATIONS SHOULD BE USED IF NECESSARY TO CONFORM TO THE LIMITATION.

APR 19 1973

Form P-4
(1-1-71)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Producer's Certificate of Compliance and Authorization to Transport Oil and/or Casinghead Gas From an Oil Lease or Gas and/or Condensate from a Gas Well.		RRC District Four RRC Oil Lease No. 00835 Gas Well Ident. No.
Field Name (see back of report) Flour Bluff, East (Massive Upper)		Gas Well No.
Operator Name Exxon Corporation		Effective Date January 1, 1973
Address Wilson Tower City, State, Zip Code Corpus Christi, Texas 78401		County Nueces Survey Flour Bluff & Encinal Subd.

GATHERERS		OIL LEASE	GAS WELL
Gatherer Name Exxon Pipeline Company Address P. O. Box 2220 City, State, Zip Code Houston, Texas 77001	100 % of the	<input checked="" type="checkbox"/> Oil <input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Gas Well Gas <input type="checkbox"/> Condensate <input type="checkbox"/> Full Well Stream
Gatherer Name Exxon Corporation Address Wilson Tower City, State, Zip Code Corpus Christi, Texas 78401	100 % of the	<input type="checkbox"/> Oil <input checked="" type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Gas Well Gas <input type="checkbox"/> Condensate <input type="checkbox"/> Full Well Stream
Gatherer Name Address City, State, Zip Code	% of the	<input type="checkbox"/> Oil <input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Gas Well Gas <input type="checkbox"/> Condensate <input type="checkbox"/> Full Well Stream
Gatherer Name Address City, State, Zip Code	% of the	<input type="checkbox"/> Oil <input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Gas Well Gas <input type="checkbox"/> Condensate <input type="checkbox"/> Full Well Stream

INDICATE PURPOSE OF FILING

☐ New Oil Lease or Gas Well. Form W-1 (Application for Permit to Drill, Deepen or Plug Back) filed in the name of:

☒ Change of Gatherer

☐ Change field name from

☐ Change operator name from

☐ Change lease name from

☐ Consolidation or establishment of lease (Attachments required - see instructions.)

Previous Form P-4 approval date if filed (or prior SW-1 number) 3-1-73

REMARKS:

FOR RRC USE ONLY

Field No.

Operator No.

Approved
J. C. Bowdin
APR 19 1973

AUTHORIZATION BY CURRENT OPERATOR

The undersigned certifies that the above agent is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property in accordance with the regulations of the Railroad Commission of Texas, and that this authorization will be valid until further notice or until cancelled by the Railroad Commission of Texas, and the undersigned further certifies that the conservation laws of the State of Texas and all rules, regulations, and orders of the Railroad Commission of Texas have been complied with in respect to the property covered by this report.

4-17-73 Date Grady Coyle Signature Proration Specialist Title 512 884-4571 Area Code & Telephone No.

OPERATOR NAME CHANGE (Acknowledgment required on changes of operator.)

The undersigned, being the previous operator, has transferred operating responsibility on the above property.

Previous Operator _____ Signature _____

Address _____ Title _____

City, State & Zip Code _____ Date _____ Area Code & Telephone No. _____

RECEIVED
P.R.C. OF TEXAS

APR 19 1973

D. B.
ATTORNEY AT LAW

INSTRUCTIONS:

1. Each and every operator of oil, gas and/or condensate producing properties in the State of Texas shall file with the proper RRC District Office three (3) copies plus one additional copy for each gatherer shown on this form authorizing the gatherer(s) (whether himself or someone else) to transport the oil, gas and/or condensate from the properties of such producer.
2. Authorization is required for each person or gatherer transporting oil, gas and/or condensate from an oil lease or gas well. In the case of a split connection, the percentage of oil, gas and/or condensate each gatherer is authorized to transport shall be shown.
3. Each operator shall file a separate form for each oil lease or gas well listing all authorized gatherers for this oil lease or gas well on one form. Effective date is required, to be shown on all changes, but not necessary on a new lease or well.
4. No oil, gas and/or condensate shall be moved from any oil lease or gas well until this form is completed and filed with the proper RRC District Office.

After the RRC agent in charge has approved this form, two (2) copies will be retained by the RRC and the remaining copies will be distributed to the producer and to each gatherer.

5. After an operator has filed this form with the RRC, thereby establishing himself as the current operator, it shall bind said operator until cancelled by him or revoked by the RRC. A new Form P-4 shall be filed if there is: (a) change in operator, (b) change in gatherer(s), (c) change in field name, (d) change in lease name, (e) consolidation or subdivision of lease(s), or (f) authorization to transport production has been cancelled by the RRC. (When consolidating or sub-dividing, attach to each copy of Form P-4 a CC Form with a BEFORE and AFTER plat of lease showing changes. Plat should show distance to lease line and between wells along with proration units assigned if acreage is in the field's allocation formula.)
6. If this form is filed because of or includes a change in operator name, the new operator will be the current operator and will execute this form. The proper lines under "Indicate Purpose of Filing" shall be checked and completed. Authorization to the gatherer(s) shall be by the new or current operator. The previous operator is required to execute the "Operator Name Change Acknowledgment" before the RRC records will be changed.
7. This authorization may be revoked by the RRC at any time for failure to comply with the oil and gas conservation laws of the State of Texas and the rules, regulations and orders of the Railroad Commission of Texas.

NOTE: FILING OF FORM P-5 (ORGANIZATION REPORT) SHOWING EXACT OPERATING NAME IS REQUIRED FOR ALL NEW OPERATORS AND/OR ORGANIZATION CHANGES.

32 DIGITS (SPACES) IS THE LIMITATION FOR OPERATING AND LEASE NAMES. ABBREVIATIONS SHOULD BE USED IF NECESSARY TO CONFORM TO THE LIMITATION.

FILE IN DUPLICATE WITH DISTRICT OFFICE OF DISTRICT IN WHICH
WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

2. FIELD NAME (as per RRC Records)

FLOUR BLUFF, EAST / MASSIVE UPPER

1. LEASE NAME

W. R. DUNCAN

1. RRC District

4

2. RRC Lease or Well Number

00835

3. Well Number

1

10. County

NUECES

11. Date Drilling Permit Issued

7-3-48

12. Date Drilling Commenced

7-17-40

13. Date Drilling Completed

8-10-40

14. Date Well Plugged

10-21-76

7. ADDRESS

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

8. SURFACE LOCATION

330 FEET FROM NORTH LINE AND 570 FEET FROM EAST LINE

9. SECTION, BLOCK, AND SURVEY

FLOUR BLUFF + ENCINAL SUBDIVISION

15. Type of Well (Oil, Gas, Dry)

OIL

16. Type of Completion (Single, Dual, Etc.)

SINGLE

17. Total Depth

7075

18. FORM W-1 (Intention to Drill) Filed in Name of

HUMBLE OIL & REFINING CO.

19. Manner of Placement

PLUG #	FEET	SACKS	TOP	BOTTOM	TYPE
PLUG #1	20		5460	5637	CLASS H
PLUG #2	50		1109	1154	CLASS R
PLUG #3	12		1009	1109	CLASS H
PLUG #4	15		5	55	CLASS H

20. Was Well filled with Mud-Laden Fluid, according to the regulations of the Railroad Commission

YES ☒ NO ☐

21. How was Mud applied?

POWER PUMP

22. Mud Weight

10.0 LBS/GAL

23. Depth of Deepest Fresh Water

1000 FEET

24. Have all Abandoned Wells on this Lease been Plugged according to RRC Rules?

YES ☒ NO ☐

25. If NO, Explain

26. Name and Address of Party Plugging Well

FISH OIL WELL SERVING COMPANY, Box 1057, BREVILLE, TEXAS 78102

27. Casing and Tubing Record after Plugging

SIZE	PUT IN WELL		LEFT IN WELL	
	FEET	INCHES	FEET	INCHES
10 3/4"	1112.00		1107.00	
5 1/2"	6852.75		6852.75	
2 3/8"	6449.00		NONE	

28. Names and Addresses of Surface Owner of Well Site and Operators of Offset Producing Leases

MR. HARRY L. FRANKLIN, PETROLEUM SUPERINTENDENT, CITY OF CORPUS CHRISTI, P. O. Box 9277, CORPUS CHRISTI, TEXAS 78402

SUN OIL COMPANY, Box 2471, CORPUS CHRISTI, TEXAS 78403

RECEIVED
R.R.C. OF TEXAS

NOV. 15 1976

29. Was Notice given before Plugging to each of the above and RRC District Office?

YES ☒ NO ☐ RRC

CORPUS CHRISTI, TEXAS

CERTIFICATE:

I declare under penalties prescribed in Article 60.16c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

BRADY O'YLE

PRORATION SPECIALIST

11-15-76

REPRESENTATIVE OF COMPANY

TITLE

DATE

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

30 For Dry Holes, this Form must be accompanied by either a Driller's, Electric, Radioactivity or Acoustical/Sonic Log or such Log must be released to a Commercial Log Service.

☐ Log attached

☐ Log released to _____

Date _____

Type Log:

☐ Driller's

☐ Electric

☐ Radioactivity

☐ Acoustical/Sonic

REMARKS 10 3/4" x 5 1/2" CASING CUT OFF 5' BELOW GROUND + CAPPED.

CONDUIT / WIRELINE LOG?

DATE

BY

OFFICIAL

0001 202325

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISIONForm W-15
(Rev. 11-1-66)

CEMENTING REPORT

1. Well Name (as per RRC Records or Validity) FLORA BLUFF, EAST / MIDDLE UPPER 1		2. RRC District 4	
3. Operator EXXON CORPORATION		4. County NUECES	
5. Lease Number(s) and RRC Lease Number(s) or L. D. Number(s) W. R. DUNCAN 00835		6. Well Number 1	
7. Location (Section, Block, and Survey) FLORA BLUFF & ENCINAL SUBDIVISION			

CASING CEMENTING DATA	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
8. Cementing Date 10-19-76						
9. (a) Size of Drill Bit (inches)						
(b) Estimated % Wash or Hole Enlargement Used in Calculations.						
10. Size of Casing (inches O.D.)						
11. Top of Liner (if liner used) (ft.)						
12. Setting Depth of Casing (ft.)						
13. Type API Class Cement & Amount of Additives Used: (a) in First (Lead) or Only Slurry (if additional space is needed, use "REMARKS" on reverse side.)						
(b) in Second Slurry						
(c) in Third Slurry						
14. Bags of Cement Used: (a) in First (Lead) or Only Slurry						
(b) in Second Slurry						
(c) in Third Slurry						
15. Total Bags of Cement Used						
16. Slurry Volume per Bag of Cement (cu. ft./bag): (a) in First (Lead) or Only Slurry						
(b) in Second Slurry						
(c) in Third Slurry						
17. Volume of Slurry Pumped (cu. ft.) (from 16 & Item 15) (a) in First (Lead) or Only Slurry						
(b) in Second Slurry						
(c) in Third Slurry						
(d) Total Slurry Volume Pumped (cu. ft.)						
18. Calculated Annular Height of Cement Slurry behind Pipe (ft.)						
19. Was cement circulated to ground surface (or bottom of collar) outside casing? (Yes or No)						

CEMENTING TO PLUG AND ABANDON DATA	PLUG NO. 1	PLUG NO. 2	PLUG NO. 3	PLUG NO. 4	PLUG NO. 5	PLUG NO. 6
20. Cementing Date	10-19-76	10-20-76	10-20-76	10-21-76		
21. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	10 3/4	10 3/4	10 3/4		
22. Depth to Bottom of Tubing or Drill Pipe (ft.)	5197	1154	1109	55		
23. Bags of Cement Used (each plug)	20	50	12	15		
24. Slurry Volume Pumped (cu. ft.)	29.6	59.0	14.2	17.7		
25. Calculated Top of Plug (ft.)	5160	1040	1009	5		
26. Measured Top of Plug (ft.)		1109				

RECEIVED
R.R.C. OF TEXAS
NOV 15 1976

CORPUS CHRISTI, TEXAS

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

- OVER -

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company

4-00635

26. Remarks:

Plug #1 set by Halliburton & squeezed through perforations at

27. Remarks:

CEMENTING COMPANY

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.


Signature of Cementing or Authorized Representative

H. E. Fish President

Name of Person and Title (type or print)

Fish Oil Well Servicing Co.

Cementing Company

P. O. Box 1057

Street Address or P.O. Box

Beaville, Texas

78102

City, State

Zip Code

Telephone 512 358-2505

Area Code

10-30-76

Date

OPERATOR

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This verification covers all well data and information presented herein.


Signature of Operator or Authorized Representative

BRADY COYLE

PRODUCTION SPECIALIST

Name of Person and Title (type or print)

EXXON CORPORATION

Operator

Street Address or P.O. Box

WILSON TOWER, CORPUS CHRISTI, TEXAS 78401

City, State

Zip Code

Telephone 512 984-4571

Area Code

11-15-76

Date

INSTRUCTIONS

1. A. This form shall be filed by the operator in the RRC District Office with:
 - (1) Each copy of an initial Form G-1 or W-2 if a cementing report is required by Statewide or Special Rules, or if exception is needed to cementing requirements in Statewide or Special Rules;
 - (2) Each copy of Form W-3;
 - (3) Each copy of Form W-4 if a multiple parallel casing completion.
- B. At least an original and one copy of this form shall be filed for each cementing company used on a well.
- C. The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of Statewide Rules 8, 13, and 14. For offshore operations, Cementing Company and Operator shall comply with Statewide Rule 13(E).
3. If setting FULL AMOUNT OF SURFACE CASING:
 - A. Depth to protect fresh water determined by:
 - (1) Field Rule
 - (2) Texas Water Development Board, if no Field Rule
 - B. Set surface casing below depth to be protected and cement from casing shoe to ground surface.
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, PERMISSION SHALL BE OBTAINED FROM THE RAILROAD COMMISSION.
5. If setting NO SURFACE CASING (See Item 4 above.):
 - A. If no multi-stage tool is used, the next deeper casing string shall be cemented from the casing shoe to the surface.
 - B. If using the multi-stage tool on the next deeper string, cement from the depth that protects fresh water sands to the surface.
6. If setting SHORT SURFACE CASING (See Item 4 above.):
 - A. Cement short surface casing from the shoe to the surface.
 - B. Whether the multi-stage tool is or is not used on the next deeper casing string, cement from the depth that protects fresh water sands to:
 - (1) the surface, or
 - (2) a point midway between shoe of surface string and the surface. Compliance will be considered if a temperature survey shows that the top of the cement is at least one-third of the distance from the shoe of the surface string to the surface.
7. Setting PRODUCTION STRING of Casing: (Statewide Rules; Special Rules may vary.)
 - A. Cement to a point at least 600 feet above the casing shoe.
 - B. When 3,000 feet or more of pipe is set for the production or protecting string, a minimum of 30 feet of cement shall be left inside the pipe.
8. PLUGGING and ABANDONING:
 - A. Cement plugs shall be placed in the well bore as required by Rules and Regulations of the Commission plus any additional plugs as may be specified by the RRC District Director.
 - B. The minimum amount of cement ~~used~~ in each plug shall be a slurry volume equal to the amount necessary to fill the calculated volume of 100 feet of the hole in which the plug is placed.
 - C. A 10 foot cement plug is required to be placed in the top of the well.

0001 202326

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISIONForm W-2
Nov 7'4 RAOIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (see per RRC Records or Warrant) FLOUR BLUFF EAST (MASSIVE, UPPER)		2. LEASE NAME W. R. DUNCAN		7. RRC District 4
3. OPERATOR EXXON CORPORATION		4. ADDRESS WILSON TOWER, CORPUS CHRISTI, TEXAS 78401		8. NHO Number 00935
5. If Operator has changed within last 90 Days -- Give former Operator		6. LOCATION (Section, Block, and Survey) FLOUR BLUFF 3 E 1/4 SUBDIVISION		9. Well Number 1
12. If Workover -- Give former Field (with Reservoir)		13. Type of Electric or other Log run		10. County NUECES
				11. Purpose of Test Initial Potential <input type="checkbox"/>
				Retest 20
				Reless <input type="checkbox"/>
				14. Completion Date 8-22-40

Section I

POTENTIAL TEST DATA

15. Date of Test 2-16-73	16. No. of Hours Tested 24	17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump) GAS LIFT			18. Choke Size 2"
19. Production for Test Period	Oil - BBLs 6.0	Gas - MCF 206	Water - BBLs 86	Gas - Oil Ratio 34334	Flowing Tubing Pressure 60-150 PSI
20. Calculated 24 Hour Rate	Oil - BBLs 6.0	Gas - MCF 206	Water - BBLs 86	Oil Gravity - API - 60° 42.1	Casing Pressure PSI
21. Was Sub or Artificial Flowing Device Used During this Test? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		22. Oil Produced Prior to Test (New & Reworked Wells) 145			23. Injection Gas-Oil Ratio 25833

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

No, the undersigned witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

Signature: **B. J. PASEK**
REPRESENTATIVE OF COMPANY MAKING TEST

List of Other Operators Notified:

Signature: **REPRESENTATIVE OF RAILROAD COMMISSION**

Date of Notification:

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: **Brady Profile**
REPRESENTATIVE OF COMPANYPROBATION SPECIALIST
TITLE2-22-73
DATE

REMARKS

SECTION II		DATA ON WELL COMPLETION AND LOG (Not Required on Retest)			
24. Type of Completion: New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>					25. Date Permit Issued
26. Notice of Intention to Drill this Well was filed in Name of					27. If Special Permit, Give Permit Number
28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well			29. Total Number of Acres in this Lease		
30. Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced Completed			31. Distance to Nearest Well, Same Lease & Reservoir		
32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located			Foot From Line of The	Line And	Foot From Lease
33. Elevation (OP, MCB, RT, GR, ETC)			34. Was Directional Survey Made	Yes <input type="checkbox"/>	No <input type="checkbox"/>
35. Top of Pay	36. Total Depth	37. P.D. Depth	38. Surface Casing Determined By:	Recommendation of Texas Water Development Board <input type="checkbox"/>	Field Rules <input type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/>
39. Is Well Multiple Completion? Yes <input type="checkbox"/> No <input type="checkbox"/>		40. If Multiple Completion List All Reservoir Names (Completions in this Well)		41. Intervals Drilled By:	Rotary Tools <input type="checkbox"/> Cable Tools <input type="checkbox"/>
42. Name of Drilling Contractor				43. Is Cementing Affidavit Attached? Yes <input type="checkbox"/> No <input type="checkbox"/>	
44. CASING RECORD (Report All Strings Set in Well)					
Casing Size	Weight LB./FT.	Depth Set	Mole Size	Cementing Record	Amount Pulled
	NO CHANGE				
45. LINER RECORD					
Size	Top	Bottom	Sacks Cement	Screen	
46. TUBING RECORD					
Size	Depth Set	Packer Set	47. Producing Interval (this completion) indicate Depth of Perforations or Open Hole		
2 3/4"	6449	6449	From 6794	To 6802	
			From	To	
			From	To	
			From	To	
48. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
Depth Interval			Amount and Kind of Material Used		
6794-6802			ACIDIZED w/ 400 GAL. 15% HCL ACID AND 400 GAL. 3% MUD ACID. MUD w/ CEMENT 7610.		
49. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)					
Formations	Depth	Formations	Depth		
SEE ORIGINAL					

REMARKS: CLEANED OUT WELL, REPLACED TUBING AND ACIDIZED.

00011202327

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

BYRON TUNNELL, Chairman
JIM C. LANGDON, Commissioner
BEN RAMSEY, Commissioner



ARTHUR M. BARBECK
Chief Engineer
JAMES C. BOULDIN
Director of Production
and Proration

ERNEST O. THOMPSON BUILDING

CAPITOL STATION - P. O. DRAWER 12067

AUSTIN, TEXAS 78711

February 27, 1973

Exxon Company
Wilson Tower
Corpus Christi, Texas 78401

Gentlemen:

This is in reply to your letter of February 23, 1973
requesting an exception to the 10,000/1 input gas-oil
ratio limitation for your W.R. Duncan Lease, Well No. 1 in the FLORES BLUFF, EAST (PASSIVE)
(Upper) Field, Nueces County, Texas.

It is understood that all gas produced from this well
is used either for gas lift or sales and none is flared.

In view of the above, the Commission hereby grants
permission as requested.

Yours very truly,

James C. Bouldin
Director of Production
and Proration

JCB/

cc: RRC - Corpus Christi

0 0 0 1 2 0 2 3 2 8

EXXON COMPANY, U.S.A.
WILSON TOWER • CORPUS CHRISTI, TEXAS 78401

PRODUCTION DEPARTMENT
SOUTH TEXAS DIVISION

0184 600835
February 23, 1973

Exception to 10,000-1 Input Gas Oil
Ratio Rule, W. R. Duncan Well No. 1
(00835), Flour Bluff, East (Massive
UP.) Field, Nueces County, Texas

Mr. James C. Bouldin
Railroad Commission of Texas
P. O. Drawer 12967
Capitol Station
Austin, Texas 78711

Dear Sir:

We respectfully request an exception to Section 7, Article 6008 of the Texas Civil Statutes in order that the subject Well may be gas lifted at an input gas oil ratio greater than 10,000-1. On a 24 hour test recently taken, the Well produced as follows:

Barrels of Fluid	92
Barrels of Oil	6
Input Gas Oil Ratio	25833
Formation Gas Oil Ratio	34334
Output Gas Oil Ratio	60167

Casinghead gas from this Well is processed through the Flour Bluff Gas Plant.

Yours very truly,

EXXON CORPORATION

Grady Coyle
Grady Coyle
Proration Specialist, South Texas Division
Exxon Company, U.S.A.
(a division of Exxon Corporation)

GRJ/agh
cc: R. J. Lee

Exhibit I

Water Well Report

GeoPlus Water Well Report

[GeoLens by GeoSearch](#)

Target Property:

***Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Nueces County, Texas 78418***

Prepared For:

Hanson Professional Services

Order #: 157276

Job #: 383805

Project #: 19L0247A02

Date: 11/16/2020

Table of Contents

<i>Target Property Summary</i>	1
<i>Database Radius Summary</i>	2
<i>Water Well Map</i>	4
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<i>Site Summary By Database</i>	6
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Target Property Summary

Target Property Information

Laguna Shores Redhead Pond Phase I ESA
Corpus Christi, Texas 78418

Coordinates

Area centroid (-97.286787, 27.6428712)
1 feet above sea level

USGS Quadrangle

Oso Creek Ne, TX

Geographic Coverage Information

County/Parish: Nueces (TX)

ZipCode(s):

Corpus Christi TX: 78418

Database Radius Summary

FEDERAL LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NWIS	0.5000	0	0	0	0	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

STATE (TX) LISTING

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SDRD	0.5000	0	2	13	3	NS	NS	18
TCEQ	0.5000	0	0	0	0	NS	NS	0
TWDB	0.5000	0	0	0	1	NS	NS	1
WUD	0.5000	0	0	0	0	NS	NS	0

SUB-TOTAL		0	2	13	4	0	0	19
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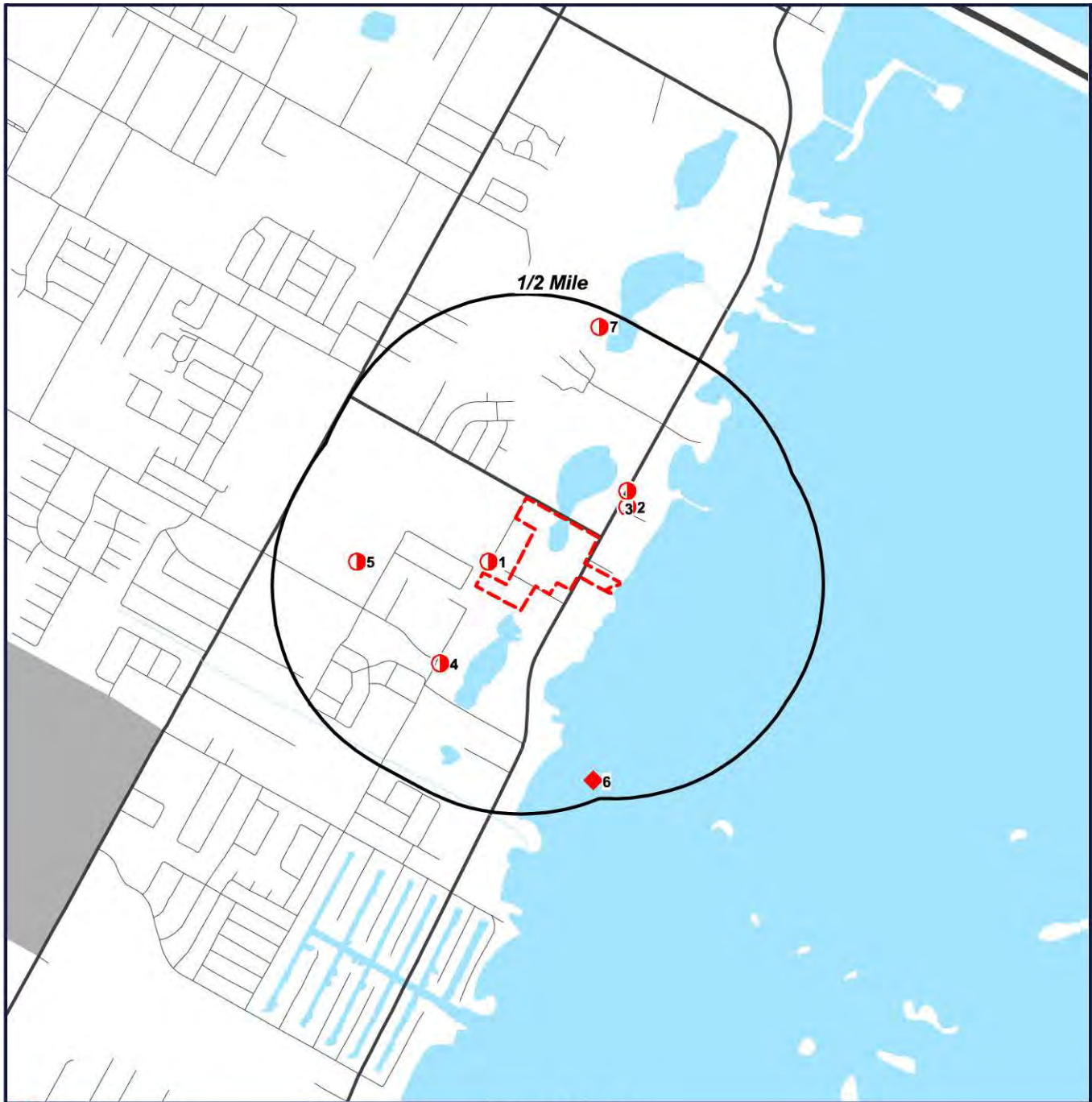
TOTAL		0	2	13	4	0	0	19
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Waterwell Map



- Target Property (TP)
- SDRD
- TWDB

**Laguna Shores
Redhead Pond
Phase I ESA
Corpus Christi, Texas
78418**



0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Located Sites Summary

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	SDRD	TX256606	Higher (7 ft.)	0.031 mi. NNE (164 ft.)	DUNCAN CEMETARY	TX	8
2	SDRD	TX25161	Higher (4 ft.)	0.104 mi. NE (549 ft.)	PITTENCRIEFF AMERICA	346 GRAHAM RD., CORPUS CHRISTI, TX 78418	9
3	SDRD	TX73755	Higher (4 ft.)	0.134 mi. NE (708 ft.)	FLOUR BLUFF ISD	WALDRON ROAD, CORPUS CHRISTI, TX 78418	10
4	SDRD	TX133065	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	11
4	SDRD	TX133073	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	12
4	SDRD	TX133078	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	13
4	SDRD	TX133084	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	14
4	SDRD	TX133086	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	15
4	SDRD	TX133090	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	16
4	SDRD	TX133093	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	17
4	SDRD	TX133094	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	18
4	SDRD	TX96825	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	19
4	SDRD	TX96828	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	20
4	SDRD	TX96832	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	21
4	SDRD	TX96836	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	22
5	SDRD	TX305227	Higher (13 ft.)	0.298 mi. W (1573 ft.)	JOE WILSON	2017 WALDRON, FLOUR BLUFF, TX	23
6	TWDB	83-22-903	Lower (0 ft.)	0.453 mi. SSE (2392 ft.)	EAST FLOUR BLUFF STATE WELL AA-1		24
7	SDRD	TX173177	Higher (6 ft.)	0.457 mi. NNE (2413 ft.)	TERRY DEFPARD	1810 EMMAUS, CORPUS CHRISTI, TX 78418	26
7	SDRD	TX176585	Higher (6 ft.)	0.457 mi. NNE (2413 ft.)	BOB BEAURGARD	1817 EMMAUS, CORPUS CHRISTI, TX 78418	27

Site Summary By Database

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
1	SDRD	TX256606	Higher (7 ft.)	0.031 mi. NNE (164 ft.)	DUNCAN CEMETARY	TX
2	SDRD	TX25161	Higher (4 ft.)	0.104 mi. NE (549 ft.)	PITTENCRIEFF AMERICA	346 GRAHAM RD., CORPUS CHRISTI, TX 78418
3	SDRD	TX73755	Higher (4 ft.)	0.134 mi. NE (708 ft.)	FLOUR BLUFF ISD	WALDRON ROAD, CORPUS CHRISTI, TX 78418
4	SDRD	TX133065	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133073	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133078	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133084	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133086	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133090	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133093	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX133094	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418
4	SDRD	TX96825	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418
4	SDRD	TX96828	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418
4	SDRD	TX96832	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418
4	SDRD	TX96836	Higher (3 ft.)	0.208 mi. SSW (1098 ft.)	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418
5	SDRD	TX305227	Higher (13 ft.)	0.298 mi. W (1573 ft.)	JOE WILSON	2017 WALDRON, FLOUR BLUFF, TX
7	SDRD	TX173177	Higher (6 ft.)	0.457 mi. NNE (2413 ft.)	TERRY DEFPARD	1810 EMMAUS, CORPUS CHRISTI, TX 78418
7	SDRD	TX176585	Higher (6 ft.)	0.457 mi. NNE (2413 ft.)	BOB BEAURGARD	1817 EMMAUS, CORPUS CHRISTI, TX 78418
6	TWDB	83-22-903	Lower (0 ft.)	0.453 mi. SSE (2392 ft.)	EAST FLOUR BLUFF STATE WELL AA-1	

Elevation Summary

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

Target Property Elevation: 1 ft.

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	SDRD	7 ft.	DUNCAN CEMETARY	TX	8
2	SDRD	4 ft.	PITTENCRIEFF AMERICA	346 GRAHAM RD., CORPUS CHRISTI, TX 78418	9
3	SDRD	4 ft.	FLOUR BLUFF ISD	WALDRON ROAD, CORPUS CHRISTI, TX 78418	10
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	11
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	12
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	13
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	14
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	15
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	16
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	17
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	1731 D STREET, CORPUS CHRISTI, TX 78418	18
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	19
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	20
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	21
4	SDRD	3 ft.	CORPUS CHRISTI NAVAL AIR STATION	BUILDING 305, CORPUS CHRISTI, TX 78418	22
5	SDRD	13 ft.	JOE WILSON	2017 WALDRON, FLOUR BLUFF, TX	23
7	SDRD	6 ft.	TERRY DEFPARD	1810 EMMAUS, CORPUS CHRISTI, TX 78418	26
7	SDRD	6 ft.	BOB BEAURGARD	1817 EMMAUS, CORPUS CHRISTI, TX 78418	27

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
6	TWDB	0 ft.	EAST FLOUR BLUFF STATE WELL AA-1		24

Submitted Drillers Report Database (SDRD)

[MAP ID# 1](#)

Distance from Property: 0.031 mi. (164 ft.) NNE
Elevation: 7 ft. (Higher than TP)

ID #: TX256606

TRACK #: 256606

DATE ENTERED: 2011-06-14

OWNER NAME: DUNCAN CEMETARY

OWNER ADDRESS: NOT REPORTED

FLOUR BLUFF, TX NOT REPORTED

COUNTY: NUECES

LATITUDE: 27.642778000 LONGITUDE: -97.289167000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2011-06-13

DRILLING DATE (COMPLETED): 2011-06-13

DEPTH DRILLED: 63'

WATER LEVEL:

STATIC LEVEL: 18'

WATER LEVEL DATE: 2011-06-13

TYPE OF WATER: GOOD

TYPE OF WORK:

NEW WELL

PROPOSED USE:

IRRIGATION

COMPANY INFORMATION:

COMPANY NAME: MIKES DRILLING AND PUMP SERVICE

COMPANY ADDRESS: P O BOX 1473

ARANSAS PASS, TX 78335

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

[MAP ID# 2](#)

Distance from Property: 0.104 mi. (549 ft.) NE
Elevation: 4 ft. (Higher than TP)

ID #: TX25161

TRACK #: 25161

DATE ENTERED: 2003-09-04

OWNER NAME: PITTENCRIEFF AMERICA

OWNER ADDRESS: 346 GRAHAM RD.
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.644722000 LONGITUDE: -97.283611000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2003-08-06

DRILLING DATE (COMPLETED): 2003-08-06

DEPTH DRILLED: 13'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: ENVIROCORE, INC.

COMPANY ADDRESS: 6913 MEADOWBREEZE PKWY.
CORPUS CHRISTI, TX 78414

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

[MAP ID# 3](#)

Distance from Property: 0.134 mi. (708 ft.) NE
Elevation: 4 ft. (Higher than TP)

ID #: TX73755

TRACK #: 73755

DATE ENTERED: 2006-01-09

OWNER NAME: FLOUR BLUFF ISD

OWNER ADDRESS: 2505 WALDRON ROAD
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.645278000 LONGITUDE: -97.283611000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2004-04-08

DRILLING DATE (COMPLETED): 2004-04-08

DEPTH DRILLED: 168'

WATER LEVEL:

STATIC LEVEL: 10'

WATER LEVEL DATE: 2004-04-08

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

INDUSTRIAL

COMPANY INFORMATION:

COMPANY NAME: MARTIN WATER WELLS

COMPANY ADDRESS: 2151 NORTH HIGHWAY 77
ROBSTOWN, TX 78380

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133065

TRACK #: 133065

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-11

DRILLING DATE (COMPLETED): 2007-12-11

DEPTH DRILLED: 17'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133073

TRACK #: 133073

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-12

DRILLING DATE (COMPLETED): 2007-12-12

DEPTH DRILLED: 20'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133078

TRACK #: 133078

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-12

DRILLING DATE (COMPLETED): 2007-12-12

DEPTH DRILLED: 19'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133084

TRACK #: 133084

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-12

DRILLING DATE (COMPLETED): 2007-12-12

DEPTH DRILLED: 19'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133086

TRACK #: 133086

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-12

DRILLING DATE (COMPLETED): 2007-12-12

DEPTH DRILLED: 19'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133090

TRACK #: 133090

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-13

DRILLING DATE (COMPLETED): 2007-12-13

DEPTH DRILLED: 19'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133093

TRACK #: 133093

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-13

DRILLING DATE (COMPLETED): 2007-12-13

DEPTH DRILLED: 17'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX133094

TRACK #: 133094

DATE ENTERED: 2008-01-30

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: 1731 D STREET
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2007-12-14

DRILLING DATE (COMPLETED): 2007-12-14

DEPTH DRILLED: 17'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING, INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD
SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX96825

TRACK #: 96825

DATE ENTERED: 2006-11-02

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: BUILDING 305

CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2006-10-25

DRILLING DATE (COMPLETED): 2006-10-26

DEPTH DRILLED: 20'

WATER LEVEL:

STATIC LEVEL: 10.5'

WATER LEVEL DATE: 2006-10-25

TYPE OF WATER: NON POTABLE

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD

SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX96828

TRACK #: 96828

DATE ENTERED: 2006-11-02

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: BUILDING 305

CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2006-10-25

DRILLING DATE (COMPLETED): 2006-10-26

DEPTH DRILLED: 20'

WATER LEVEL:

STATIC LEVEL: 10'

WATER LEVEL DATE: 2006-10-25

TYPE OF WATER: NON POTABLE

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD

SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX96832

TRACK #: 96832

DATE ENTERED: 2006-11-02

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: BUILDING 305

CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2006-10-26

DRILLING DATE (COMPLETED): 2006-10-26

DEPTH DRILLED: 20'

WATER LEVEL:

STATIC LEVEL: 9.5'

WATER LEVEL DATE: 2006-10-26

TYPE OF WATER: NON POTABLE

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD

SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 4](#)

Distance from Property: 0.208 mi. (1,098 ft.) SSW
Elevation: 3 ft. (Higher than TP)

ID #: TX96836

TRACK #: 96836

DATE ENTERED: 2006-11-02

OWNER NAME: CORPUS CHRISTI NAVAL AIR STATION

OWNER ADDRESS: BUILDING 305

CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.639167000 LONGITUDE: -97.291111000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2006-10-26

DRILLING DATE (COMPLETED): 2006-10-26

DEPTH DRILLED: 20'

WATER LEVEL:

STATIC LEVEL: 7.5'

WATER LEVEL DATE: 2006-10-26

TYPE OF WATER: NON POTABLE

TYPE OF WORK:

NEW WELL

PROPOSED USE:

MONITOR

COMPANY INFORMATION:

COMPANY NAME: VORTEX DRILLING INC.

COMPANY ADDRESS: 4412 BLUEMEL ROAD

SAN ANTONIO, TX 78240

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Submitted Drillers Report Database (SDRD)

[MAP ID# 5](#)

Distance from Property: 0.298 mi. (1,573 ft.) W
Elevation: 13 ft. (Higher than TP)

ID #: TX305227

TRACK #: 305227

DATE ENTERED: 2012-11-29

OWNER NAME: JOE WILSON

OWNER ADDRESS: 2017 WALDRON

FLOUR BLUFF, TX NOT REPORTED

COUNTY: NUECES

LATITUDE: 27.642778000 LONGITUDE: -97.294445000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2012-11-26

DRILLING DATE (COMPLETED): 2012-11-26

DEPTH DRILLED: 163'

WATER LEVEL:

STATIC LEVEL: 39'

WATER LEVEL DATE: 2012-11-26

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

IRRIGATION

COMPANY INFORMATION:

COMPANY NAME: MIKES DRILLING

COMPANY ADDRESS: PO BOX 2363

ARANSAS PASS, TX 78336

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Texas Water Development Board Groundwater Database (TWDB)

[MAP ID# 6](#)

Distance from Property: 0.453 mi. (2,392 ft.) SSE
Elevation: 0 ft. (Lower than TP)

STATE ID: 83-22-903

OWNER'S NAME: EAST FLOUR BLUFF STATE WELL AA-1

DATE DRILLED: 00/00/1951

DEPTH DRILLED: 6907'

WATER USAGE: NOT REPORTED

LONGITUDE: -97.285000000

LATITUDE: 27.635000000

SOURCE: TWDB

DOCUMENT LINK: [CLICK HERE](#)

TWDB (TWDB)

Page # 1 out of 1
State ID: 83-22-903

CROSS REFERENCE SHEET

Name or Subject		Date
CR-GWTD NUECES	Located Well Data UB 83-22-903	
Regarding	Electric Log	

SEE

Name or Subject		
GW-SC ELECTRIC LOG FILE	Q-177	

B-152(62-1)

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Submitted Drillers Report Database (SDRD)

[MAP ID# 7](#)

Distance from Property: 0.457 mi. (2,413 ft.) NNE
Elevation: 6 ft. (Higher than TP)

ID #: TX173177

TRACK #: 173177

DATE ENTERED: 2009-04-01

OWNER NAME: TERRY DEFPARD

OWNER ADDRESS: 1810 EMMAUS
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.651112000 LONGITUDE: -97.284722000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2009-03-05

DRILLING DATE (COMPLETED): 2009-03-06

DEPTH DRILLED: 10'

WATER LEVEL:

STATIC LEVEL: 27'

WATER LEVEL DATE: 2009-03-06

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: MARTIN WATER WELLS

COMPANY ADDRESS: 2151 N. HWY 77
ROBSTOWN, TX 78380

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Submitted Drillers Report Database (SDRD)

[MAP ID# 7](#)

Distance from Property: 0.457 mi. (2,413 ft.) NNE
Elevation: 6 ft. (Higher than TP)

ID #: TX176585

TRACK #: 176585

DATE ENTERED: 2009-04-29

OWNER NAME: BOB BEAURGARD

OWNER ADDRESS: 1817 EMMAUS
CORPUS CHRISTI, TX 78418

COUNTY: NUECES

LATITUDE: 27.651112000 LONGITUDE: -97.284722000

REPORT LINK: [CLICK HERE](#)

WELL LOG:

DRILLING DATE (STARTED): 2009-03-09

DRILLING DATE (COMPLETED): 2009-03-10

DEPTH DRILLED: 10'

WATER LEVEL:

STATIC LEVEL: 30'

WATER LEVEL DATE: 2009-03-10

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

DOMESTIC

COMPANY INFORMATION:

COMPANY NAME: MARTIN WATER WELLS

COMPANY ADDRESS: 2151 N. HWY 77
ROBSTOWN, TX 78380

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Environmental Records Definitions - FEDERAL

NWIS

United States Geological Survey National Water Information System

VERSION DATE: 01/02/20

The U.S. Geological Survey (USGS) National Water Information System (NWIS) includes water inventory data originating from all 50 states, plus border and territorial sites, including data from as early as 1899. This database includes selected site types limited to Groundwater Sites and Spring Sites from the 1.5 million plus sites within NWIS. Surface-Water, Atmospheric, and Other Site types are excluded. Disclaimer: Water Data for the Nation is the USGS public web interface to much of the data stored and managed within NWIS. It is not, however, configured to present all NWIS data and users may need to contact local Water Science Centers to obtain some information. NWIS data is updated on a regularly scheduled basis, and current condition data is generally updated upon receipt at local Water Science Centers.

Environmental Records Definitions - STATE (TX)

SDRD Submitted Drillers Report Database

VERSION DATE: 08/05/20

This Texas Water Development Board database was created from the online Texas Well Report Submission and Retrieval System (A cooperative TDLR, TWDB system) that registered water-well drillers use to submit their required reports. The system was started in February 2001 and is optional for the drillers to use.

TCEQ Texas Commission on Environmental Quality Water Wells

VERSION DATE: NR

The Texas Commission on Environmental Quality (TCEQ) maintains a filing system of plotted and unnumbered water wells. Plotted water wells are filed according to the County indicated by the driller and the state well number assigned by State of Texas personnel. Given the available location information provided by the driller, personnel identify where the approximate well location should be. After well placement a state well number is assigned indicating that the well lies within a specific 2.5' section of a 7.5' quadrangle. This method allows for quicker, more refined, reference when researching a specific area. Unnumbered water wells have not been assigned a state well number. This can occur for a variety of reasons; however it does not mean the well cannot be accurately spotted. Unnumbered water well records are filed according to County and are often broken up by year or by a span of years.

TWDB Texas Water Development Board Groundwater Database

VERSION DATE: 05/05/20

The Texas Water Development Board Groundwater Database contains information for more than 123,500 sites in Texas including data on water wells, springs, oil/gas tests, water levels, and water quality. The purpose of the Board's data collection effort over the years has been to gain representative information about aquifers in the state in order to do water planning. It is very important, however, to realize that the wells in the database represent only a small percentage of the wells that actually exist in Texas. A registered water well driller is required by law to send in a report to the State for every well that is drilled. This requirement began in 1965, and we estimate that approximately 500,000 wells have been drilled in Texas since then. Of the 1,000,000 plus water wells drilled in Texas over the past 100 years, more than 130,000 have been inventoried and placed into the TWDB groundwater database. State well numbers have been assigned to these based on their location within numbered 7 1/2 minute quadrangles formed by lines of latitude and longitude. This database contains well information including location, depth, well type, owner, driller, construction and completion data.

WUD Water Utility Database

VERSION DATE: NR

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

Environmental Records Definitions - STATE (TX)

Exhibit J

Site Visit Photo Log

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



1. Photo taken facing southeast from northwest corner of subject property. Vegetation on the subject property, street signs, and a sign designating a cemetery can be seen.



2. Photo taken facing east from northwest corner of subject property. A pavilion and pond used as an educational area for Flour Bluff ISD can be seen across Hustlin' Hornet Drive from the subject property.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



3. Photo taken near northwest corner of subject property. A storm drain inlet can be seen.



4. Photo taken facing northwest from northwest corner of subject property. Hustlin' Hornet Drive and Flour Bluff Schools can be seen to the west of the subject property.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



5. Photo taken facing southwest from northwest corner of subject property. Debra Lane and Flour Bluff Junior High School can be seen to the west of the subject property.



6. Photo taken facing southeast from northwest corner of subject property. Vegetation on the subject property can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



7. Photo taken along Debra Lane to the west of the subject property. A sign can be seen designating the cemetery to the west of the subject property (Duncan Cemetery) as a Historic Texas Cemetery.



8. Photo taken facing southwest from Gadwell Street. The road that crosses between the north tracts and south tracts of the subject property can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site

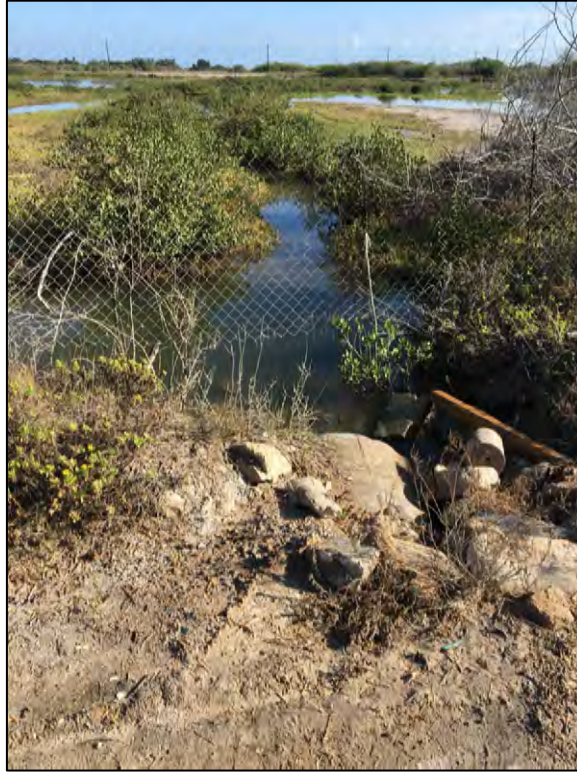


9. Photo taken facing northeast from Gadwell Street. Wetlands and vegetation can be seen on the west portion of the subject property.



10. Photo taken facing south from Gadwell Street. Wetlands and vegetation can be seen on the southern portion of the subject property.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



11. Photo taken facing north from Gadwell Street. A culvert crossing under Gawell Street from the north tracts of the subject property to the south tracts can be seen. At the time of the site visit, a current was present with water flowing southward through the culvert.



12. Photo taken facing east from center of western boundary of subject property. Wetlands on the subject property can be seen. In the distance, homes along Laguna Shores Road/Laguna Madre can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



13. Photo taken facing west from center of western boundary of subject property. The Duncan Cemetery can be seen.



14. Photo taken facing southeast from center of northern boundary of subject property. Wetlands on the subject property can be seen. In the distance, homes along Laguna Shores Road/Laguna Madre can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



15. Photo taken facing southeast from center of northern boundary of subject property. A stormwater outfall into the pond on the subject property can be seen.



16. Photo taken facing northwest from center of northern boundary of subject property. A stormwater outfall into the pond on the subject property can be seen

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



17. Photo taken facing south in the northeast portion of the subject property along Hustlin' Hornet Drive. Two boxes associated with buried communication cables can be seen.



18. Photo taken facing southeast from northeast corner of subject property. The intersection of Laguna Shores Road and Hustlin' Hornet Drive can be seen. The portion of Laguna Shores Road that crosses between the north and east tracts of the subject property was closed for road reconstruction.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



19. Photo taken facing south from northeast corner of subject property. Historically, aboveground storage tanks were located in this area of the subject property.



20. Photo taken near northeast corner of subject property facing south. Road reconstruction of Laguna Shores Road can be seen adjacent to the north and east tracts of the subject property.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



21. Photo taken facing west in northeast portion of subject property. Bollards can be seen on the subject property.



22. Photo taken facing north in northeast portion of subject property. Vegetation on the subject property can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



23. Photo taken facing north in northeast portion of subject property. Vegetation on the subject property can be seen. This portion of the subject property appeared to be at a higher elevation than the surrounding area.



24. Photo taken facing west from Laguna Shores Road. Bollards on the subject property can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



25. Photo taken facing west from Laguna Shores Road. Wetlands and vegetation on the subject property can be seen.



26. Photo taken facing southeast from Laguna Shores Road. Wetlands and vegetation on the subject property can be seen.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



27. Photo taken facing northeast from Laguna Shores Road. Wetlands and vegetation on the subject property can be seen.



28. Photo taken along Laguna Shores Road facing southwest. A pipe can be seen along the east boundary of the north tracts of the subject property.

Photo Log of Site Visit – Laguna Shores/Redhead Pond Site



29. The pipe from the previous photo can be seen. It appears to be a wastewater force main.



30. Photo taken facing west from Laguna Shores Road. The southeast portion of the north tracts of the subject property can be seen. Some household waste was observed in this area.