



Phase I Environmental Site Assessment – McKamey Site Gregory, San Patricio County, Texas

February 2018

Prepared for Corpus Christi Regional Economic Development Corporation

Hanson Professional Services Inc. Project No. 18L0013 Task 1000

Professional Statement and Signature Page

Description of Subject Site: McKamey Site
Gregory, San Patricio 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 – McKamey Site, Gregory, San Patricio County, Texas," issued February 2018.

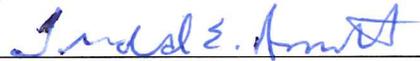
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Signature

2/12/2019

Date

Environmental Professional

Tara L. Ducrest



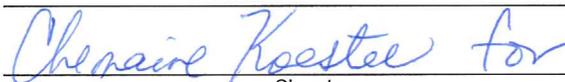
Signature

2/12/18

Date

Ecological Characterization Personnel

Harrison McNeil



Signature

2/12/18

Date

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Executive Summary

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 2,408 acres of mostly undeveloped farmland located to the north of U.S. Highway 181 near Gregory, San Patricio County, Texas. The ESA was performed in 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. A preliminary ecological resource characterization was also conducted for this property to supplement the Phase I ESA. This characterization consisted of research and review of information pertaining to wetlands, habitat, historic resources, and threatened and endangered species.

The majority of the subject property is currently used as farmland which was fallow at the time of the site visit. Signs of historical and current oil and gas exploration were present on the subject property. Many longstanding oil and gas well pads were observed throughout the subject property and were being used as storage areas for harvested cotton, hay bales, or farming equipment. Piles of harvested cotton were being burned on two locations on the subject property during the site visit. Many other piles appeared to have been previously burned. Warning markers for buried infrastructure including gas and petroleum pipelines and buried cables were observed throughout the subject property at various locations. Two communications towers were observed on the east portion of the subject property. Remnants of Rhaps Garden, an exotic tropical plant greenhouse operation, were observed in the central portion of the subject property. A drainage or irrigation ditch was observed crossing through the center of the subject property in a north/south direction. Smaller ditches and a pond were also observed on the subject property.

Signs of historical and current oil and gas exploration were present on some surrounding properties. Warning markers for natural gas, liquefied petroleum gas (LPG), crude oil, and high pressure petroleum pipelines were observed on the properties adjacent to the subject property. To the east of the subject property, signs for proposed air quality permits for two concrete batch plants were observed. To the north of the subject property, an area was observed where illegal dumping of household items had occurred.

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 Professional Services Inc. through GeoSearch. GeoSearch's search of available government records identified three sites on the subject property. Magnum Producing, LP – Bartosh GU #4, McKamy Et AL, and Bartosh GU #4 were all identified in the TIER II Chemical Reporting Program Facilities (TIER II) database. Information on the sites indicates that they are crude petroleum and natural gas extraction sites and store produced water, produced hydrocarbons, and crude oil. Well pads and equipment for these sites were not present at the time of the site visit.

Sites identified within the search radius beyond the subject property include Floerke #2/Magnum Producing, LP – Floerke #2 and Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26. Floerke #2/Magnum Producing, LP – Floerke #2 is located approximately 300 feet west of the northwest portion of the subject property and was identified in the TIER II database. This site was also identified as a crude petroleum and natural gas extraction site that stores produced water, produced hydrocarbons, and crude oil.

Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26 is also located approximately 300 feet west of the northwest portion of the subject property and was identified in the Facility Registry System

(FRSTX) database. Information on this site indicates that it is a site that provides support activities for oil and gas operations.

A search of the Railroad Commission of Texas's (RRC) records identified 65 oil or gas wells on the subject property. Records indicate that 15 underground pipelines cross the subject property. Eighty oil or gas wells were located within 0.5 miles of the subject property.

No stained soil, stressed vegetation, or waste disposal pits ponds, or lagoons were observed on the subject property during the site visit.

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:

- *Past Potential Use of Herbicides and Pesticides* – Herbicides and pesticides were most likely applied to the majority of the subject property in the past because it has been used as farmland since at least 1950. If cotton crops were grown on the subject property, arsenical acids may have been used as a defoliant in the past.
- *Past and Current Oil and Gas Exploration* – RRC records for one oil well, 12 plugged oil wells, two plugged oil and gas wells, seven gas wells, 15 plugged gas wells, five sidetrack surface locations, 19 dry hole wells, and four permitted locations were identified for the subject property. GeoSearch's search identified three sites on the subject property as crude petroleum and natural gas extraction sites that store produced water, produced hydrocarbons, and crude oil. An active oil or gas production facility, including one gas well surface tree and aboveground storage tanks, was observed on the subject property near the center of the southern property boundary. One produced water tank, two condensate tanks, one triethylene glycol tank, and a tank labeled as containing PFR-23 were present at the production facility. Three oil or gas well surface trees that appeared inactive were observed on longstanding well pads on the subject property.
- *Presence of Underground Pipelines* – There are 15 buried pipelines present in the subject property, including two abandoned and one in-service crude oil pipeline, one in-service nitrogen pipeline, and four abandoned and seven in-service natural gas pipelines.

Off-Site RECs:

- *Past and Current Oil and Gas Exploration* – Records for eighty oil or gas wells were identified for properties within 0.5 miles of the subject property. An inactive oil or gas production facility was identified in GeoSearch's records search as being located along CR 3677 within 300 feet of the subject property. Two active oil or gas production facilities were observed along County Road 3677 within 375 feet of the subject property.

Recommendations

Due to the recognized environmental conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

The ecological resources characterization found that the subject property may contain potentially jurisdictional wetland or hydrologic features; therefore, a waters and wetlands delineation should be performed and coordination with the U.S. Army Corps of Engineers should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to starting site work.

Five Federal and State listed endangered species may potentially occur at or near the subject property. To determine whether suitable habitat for any of the potentially occurring species exists, further evaluation for threatened and endangered species should be performed.

1. Introduction

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 2,408 acres of undeveloped land located to the north of U.S. Highway 181 near Gregory, San Patricio County, Texas. The ESA was conducted for the Corpus Christi Regional Economic Development Corporation (CCREDC).

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 Professional Services Inc. has performed this ESA for CCREDC 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 was 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.	Contact Name: Title: Company Name: Web Site Address: Telephone Number: Information Obtained:	Scott Davis Account Representative GeoSearch http://www.geo-search.com/ (888) 396-0042 Aerial Photos, Historical Topographic Maps, City Directory Report, Fire Insurance Map Report, Radius Map Report, & Environmental Lien Search
2.	Company Name: Web Site Address: Telephone Number: Information Obtained:	San Patricio County Appraisal District http://www.sanpatcad.org/ (361) 364-5402 Legal descriptions
3.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Railroad Commission of Texas http://gis2.rrc.state.tx.us/public/startit.htm (361) 242-3113 Oil and gas exploration records
4.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Federal Emergency Management Agency https://msc.fema.gov/portal (877) 336-2627 Floodplain map
5.	Company Name: Web Site Address: Telephone Number: Information Obtained:	United States Department of Agriculture Websoilsurvey.sc.egov.usda.gov/App/HomePage.htm (254) 742-9857 Soil information
6.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Texas Commission on Environmental Quality http://www15.tceq.texas.gov (512) 239-1000 LPST database information
7.	Company Name: Web Site Address: Telephone Number: Information Obtained:	United States Geological Survey – National Hydrography Dataset https://nhd.usgs.gov (888) 275-8747 Surface water information
8.	Company Name: Web Site Address: Telephone Number: Information Obtained:	U.S. Fish & Wildlife Service https://ww.fws.gov/wetlands/data/mapper.html (608) 238-9333 Wetlands information
9.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Texas Historical Commission https://atlas.thc.state.tx.us (512) 463-6100 Historical marker location information
10.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Texas Parks and Wildlife Department – Ecological Mapping System https://tpwd.texas.gov/landwater/land/programs/landscape-ecology/ems/ (512) 389-4800 Vegetation data
11.	Company Name: Web Site Address: Telephone Number: Information Obtained:	Texas Parks and Wildlife Department – Rare, Threatened, and Endangered Species of Texas https://tpwd.texas.gov/gis/rtest/ (512) 389-4800 Species information

12. Company Name:	U.S. Fish & Wildlife Service
Web Site Address:	https://www.fws.gov/endangered/
Telephone Number:	(505) 248-6911
Information Obtained:	Species information
13. Website Address:	www.rhapisgardens.com
Information Obtained:	Information on greenhouse operation formerly located on subject property

1.5. Qualifications Statement

Mr. Terald Smith, P.G., Senior Project Manager and Assistant Vice President for Hanson Professional Services Inc., received a B.S. in Physics and a M.S.E. in Biology, and is a Licensed Professional Geoscientist (P.G. License No. 1456, Geology). He has over thirty years of experience in solid and hazardous waste management, site remediation, air and water pollution control, environmental health and safety audits, and environmental impact assessments. He holds a Texas Commission on Environmental Quality (TCEQ) UST A and B (Installer and Remover) license (ILP000046) and is a licensed UST Corrective Action Project Manager (CAPM00152). Mr. Smith has performed numerous environmental site assessments on industrial, commercial and residential properties as well as undeveloped land.

Ms. Tara L. Ducrest, Environmental Scientist for Hanson Professional Services Inc., 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.

Mr. Harrison McNeil, Biologist for Hanson Professional Services Inc., received a B.S. in Ocean & Coastal Resources in 2014 from Texas A&M University and a M.S. in Marine Resource Management in 2015 from Texas A&M University. Mr. McNeil has performed numerous ecological resource characterizations.

2. Property Description

2.1. Location

The subject property is located north of U.S. Highway 181 approximately 1.85 miles northwest of the intersection of U.S. Highway 181 and State Highway 35 near Gregory, San Patricio, Texas. The center of the subject property lies at approximately 27° 57' 31.24" north latitude and 97° 19' 09.08" west longitude. The Subject Property Location Map and Subject Property Detail Map are provided as Figures 1 and 2.

2.2. Legal Description

The subject property consists of 14 parcels of land. Legal descriptions for these parcels are listed below:

- Parcel 51678: Tract 11 & 12 Block E Gregory Subdivision 198.725 Acres
- Parcel 51718: ½ PT 3-18 Block F Gregory Subdivision CFP Co. 680.692 Acres
- Parcel 51729: ½ Lots 3 to 18 Block F Gregory Subdivision CFP Co. 663.192 Acres
- Parcel 51778: Lot 23 Block F Gregory Subdivision CFP Co. 147.971 Acres
- Parcel 51787: Lot 24 and W PT 25 Block F Gregory Subdivision CFP Co. 100.76 Acres
- Parcel 51796: PT of Lot 1 Block H Gregory Subdivision CFP Co. 1.48 Acres
- Parcel 51802: Part of TR 25 Block F, Part of TR 26 Block F Gregory Subdivision 79.7 Acres
- Parcel 51812: Lot 26 Block F Gregory Subdivision CFP Co. 46.1 Acres
- Parcel 51819: Part of TR 26 Block F Gregory Subdivision CFP 2 Acres
- Parcel 52003: Lot 24 Block 14 Taft Farm Blocks 153.65 Acres
- Parcel 52049: Tract 1 Block 16 Taft Farm Blocks 129.971 Acres
- Parcel 52062: Lot 23 Block 16 Taft Farm Blocks 198 Acres
- Parcel 52067: PT 3 Block 16 1st Addition Taft Farm Blocks 2 Acres
- Parcel 115284: Part of Lot 1 Block H Gregory Subdivision CFR Co. 1.462 Acres

2.3. Property and Vicinity Characteristics

The subject property is located at approximately 30 feet above sea level. Federal Emergency Management Agency (FEMA) flood data was reviewed and it was determined that the subject property is located in Zone X, areas of minimal flood hazard outside of the 100 and 500 year floodplains.

National Wetlands Inventory (NWI) data shows one freshwater emergent and three riverine wetlands on the subject property. Two additional freshwater emergent wetlands within one-half mile were identified to the south of the subject property.

Soils of the subject property consist of Victoria clay 0 to 1 percent slopes which is well drained, Victoria clay depressional which is well drained, Raymondville clay loam 0 to 1 percent slopes which is moderately well drained, Calallen sandy clay loam 0 to 1 percent slopes which is well drained, Papalote fine sandy loam 0 to 1 percent slopes which is moderately well drained, Banquete clay 0 to 1 percent slopes which is moderately well drained, Edroy clay 0 to 1 percent slopes which is poorly drained, and Willacy fine sandy loam 0 to 1 percent slopes which is well drained.

The geologic information for the subject property lists the rock stratigraphic unit under geology symbols Qbc and Qbs. Qbc geology symbol represents the Beaumont Formation with areas predominantly clay and Qbs geology symbol represents the Beaumont Formation with areas predominantly sand. Physical feature information was provided by GeoSearch in the Physical Settings Report which is included in Exhibit A.

2.4. Easements and Right of Ways

Right-of-ways exist for underground pipelines and buried communication cables that cross or parallel the subject property.

2.5. Title Review

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

2.6. Current Uses of Subject Property

The majority of the subject property is currently used as farmland. The central portion of the subject property is mostly shrubland and appears to be used for keeping cattle. A residential property is also present in the central portion of the subject property. An active oil or gas production facility is present on the subject property near the center of the southern subject property boundary. Records indicate that additional oil and gas exploration has occurred on the subject property as recently as 2015.

2.7. Past Uses of Subject Property

Portions of the subject property have been used as farmland since at least the 1950s. Oil and gas exploration appears to have occurred throughout the subject property, mostly during the 1960s to the 1990s. Rhapis Garden, an exotic tropical plant greenhouse operation, was in operation for at least 35 years in the central portion of the subject property.

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
Residential property, farmland, oil or gas production facility, and wind turbines	CR 3865, aboveground pipeline appurtenance, residential properties, and farmland	U.S. Highway 181, farmland, oil or gas production facility, and wind turbines	CR 3677, oil or gas production facility, farmland, residential properties, and wind turbines

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 historical aerial photographs, fire insurance maps, and city directories:

Table 2-2 – Past Uses of Surrounding Properties

North	East	South	West
Homestead, farmland, oil or gas exploration	CR 3865, homesteads, farmland, oil or gas exploration	U.S. Highway 181, homesteads, farmland, and oil or gas exploration	CR 3677, homesteads, farmland, and oil or gas exploration

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. GeoSearch

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 has been reduced to the properties listed that are within the appropriate search distances designated in ASTM E 1527-13, Section 8.2.1 from the approximate geographic center 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 search of available government records identified three sites on the subject property. Magnum Producing, LP – Bartosh GU #4, McKamey Et AL, and Bartosh GU #4 were all identified in the TIER II Chemical Reporting Program Facilities (TIER II) database. Information on the sites indicates that they are crude petroleum and natural gas extraction sites and store produced water, produced

hydrocarbons, and crude oil. Well pads and equipment for these sites were not present at the time of the site visit.

Sites identified within the search radius beyond the subject property include Floerke #2/Magnum Producing, LP – Floerke #2 and Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26. Floerke #2/Magnum Producing, LP – Floerke #2 is located approximately 300 feet west of the northwest portion of the subject property and was identified in the TIER II database. This site was also identified as a crude petroleum and natural gas extraction site that stores produced water, produced hydrocarbons, and crude oil.

Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26 is also located approximately 300 feet west of the northwest portion of the subject property and was identified in the Facility Registry System (FRSTX) database. Information on this site indicates that it is a site that provides support activities for oil and gas operations.

A listing of the properties identified is provided in the GeoSearch Radius Map Report located in Exhibit B. This exhibit shows the location of the subject property and any located properties, which were contained in the referenced federal and state databases.

3.3. Historical Aerial Photographs

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

3.3.1. Aerial Photographs – 1950 (1" = 700'±)

In the aerial photos from 1950, much of the subject property and surrounding land appears to be farmland. The north central portion of the subject property is shrubland mixed with farmland. Drainage or irrigation ditches can be seen running north/south and east/west through the subject property. There are six homestead properties located throughout the subject property and 11 more located adjacent to the perimeter of the subject property. A site with what appears to be four aboveground storage tanks can be seen across CR 3677 from the southwest corner of the subject property. U.S. Highway 181 can be seen to the south of the subject property.

3.3.2. Aerial Photographs – 1961 (1" = 700'±)

In the aerial photos from 1961, much of the subject property and surrounding land still appears to be farmland. Signs of oil or gas exploration can be seen on the southwest, central, and north central portions of the subject property and on the land to the west and south of the subject property.

3.3.3. Aerial Photographs – 1968 (1" = 700'±)

In the aerial photos from 1968, much of the subject property and surrounding land still appears to be farmland. Additional signs of oil or gas exploration can be seen on the southwest, northwest, and southeast portions of the subject property and to the east and west of the subject property. The site with four aboveground storage tanks across CR 3677 from the southwest corner of the subject property can no longer be seen.

3.3.4. Aerial Photographs – 1972 (1" = 700'±)

In the aerial photos from 1972, much of the subject property and surrounding land still appears to be farmland. Additional signs of oil or gas exploration can be seen in the central portion of the subject property.

3.3.5. Aerial Photographs – 1981 (1" = 700'±)

In the aerial photos from 1981, the majority of the subject property and surrounding land is still farmland. Additional signs of oil or gas exploration can be seen throughout the subject property and to the west and north of the subject property. The residential property in the north central portion of the subject property and two large structures associated with the greenhouse operation can be seen to the south of the home.

3.3.6. Aerial Photographs – 1995 (1" = 700'±)

In the aerial photos from 1995, the majority of the subject property and surrounding land is still farmland. Additional signs of oil or gas exploration can be seen on the central and northwest portions of the subject property and to the east and west of the subject property. There appears to be a communications tower on the southeast portion of the subject property.

3.3.7. Aerial Photographs – 2004 (1" = 700'±)

In the aerial photos from 2004, much of the subject property and surrounding land still appears to be farmland. New residential properties can be seen on the southwest and southeast portions of the subject property.

3.3.8. Aerial Photographs – 2005 (1" = 700'±)

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

3.3.9. Aerial Photographs – 2006 (1" = 700'±)

In the aerial photos from 2006, much of the subject property and surrounding land still appears to be farmland. Two new areas that appear to be associated with oil or gas exploration can be seen to the west of the subject property.

3.3.10. Aerial Photographs – 2008 (1" = 700'±)

In the aerial photos from 2008, the majority of the subject property and surrounding land is still farmland. Additional signs of oil or gas exploration can be seen on the east portion of the subject property and to the north of the subject property.

3.3.11. Aerial Photographs – 2010 (1" = 700'±)

In the aerial photos from 2010, the subject property and surrounding land appears similar to the previous photo.

3.3.12. Aerial Photographs – 2012 (1" = 700'±)

In the aerial photos from 2012, the subject property and most surrounding land appears similar to the previous photo. Wind turbines can be seen to the north and west of the subject property.

3.3.13. Aerial Photographs – 2014 (1" = 700'±)

In the aerial photos from 2014, the majority of the subject property and surrounding land is still farmland. Additional signs of oil or gas exploration can be seen on the east portion of the subject property and to the northeast of the subject property.

3.3.14. Aerial Photographs – 2016 (1" = 700'±)

In the aerial photos from 2016, the majority of the subject property and surrounding land is still farmland. Additional signs of oil or gas exploration can be seen on the east portion of the subject property and to the south and west 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. The 1951 map shows an oil and gas field present to the southwest of the subject property. The 1969 maps show a total of 12 wells and 6 tanks to be present on the subject property and several more to be adjacent to the perimeter of the subject property. The 1975 maps show a total of 18 wells and 6 tanks to be present on the subject property and several more to be adjacent to the perimeter of the subject property. The historical topographic maps are provided in Exhibit D.

3.5. City Directories

City Directory services were requested from GeoSearch for this report and the City Directory Report is provided in Exhibit E. No listings were identified for the subject property or surrounding properties.

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 supplied in Exhibit F.

3.7. Environmental Liens

The Environmental Lien search was performed by GeoSearch for Parcels 51729 and 51718; the results are provided in Exhibit G. According to the Environmental Lien search, no environmental liens or activity and use limitations were found for these parcels.

3.8. Oil and Gas Exploration and Water Well Records

A search of the Railroad Commission of Texas's (RRC) records identified 65 oil or gas wells on the subject property. Records indicate that 15 underground pipelines cross the subject property. These include an in-service crude oil pipeline operated by Koch Pipeline Company, L.P., an abandoned crude oil pipeline operated by Koch Pipeline Company, L.P., an abandoned crude oil pipeline operated by Plains Pipeline L.P., four in-service natural gas pipelines operated by Southcross CCNG Gathering LTD., an abandoned natural gas pipeline operated by Producers Gas Gathering JV, an in-service natural gas pipeline operated by Enterprise Products Operating LLC, an abandoned natural gas pipeline operated by San Patricio Pipeline LLC, an in-service nitrogen pipeline operated by Enterprise Products Operating LLC, an abandoned natural gas pipeline operated by Texas Eastern Transmission, LP, two in-service natural gas pipelines operated by EOG Resources, Inc., and an abandoned natural gas pipeline operated by Enterprise Products Operating LLC. Eighty oil or gas wells were located within 0.5 miles of the subject property. A map showing the RRC results is included in Exhibit H and GeoSearch's Oil and Gas Report is included as Exhibit I.

A search of the RRC's crude oil, gas well liquid, or associated products (H-8) Loss Reports for 2009 to 2017 were reviewed and the reports showed that equipment failure at a production facility (Knipe Gas Unit) approximately 2,000 feet west of the subject property resulted in a spill of 20 gallons of gas well liquid in 2011. Contaminated soil was dug up and the area was remediated.

GeoSearch did not report any water wells on the subject property. Seven water wells were reported within one-half mile of the subject property and were identified as one unused well, two domestic wells, one monitoring well, two environmental soil borings, and one industrial use well. Reported wells were identified in the Texas Water Development Board database and the Submitted Drillers Report Database. GeoSearch's Water Well Report can be found in Exhibit J.

An additional search of the Texas Water Development Board's database found two geophysical well logs for oil or gas wells that had been drilled on the subject property, one near the southeast corner in 1965 and the other on the northeast side of the subject property in 1973.

4. Property Reconnaissance

4.1. General

Ms. Tara Ducrest, an environmental scientist with Hanson, conducted the property reconnaissance visit of the subject property on February 1, 2018. Photographs taken during the property visit are included in Exhibit K.

4.2. Observations

The majority of the subject property is currently used as farmland which was fallow at the time of the site visit. Signs of historical and current oil and gas exploration were present on the subject property. Three oil or gas well surface trees that appeared inactive were observed on longstanding well pads on the subject property. Many other longstanding well pads were observed throughout the subject property and were being used as storage areas for harvested cotton, hay bales, or farming equipment. It appeared that harvested cotton had been burned on some of the pads and remnants were present. Two areas on the subject property had piles of harvested cotton being actively burned. In the central area of the subject property, two storage units, two herbicide storage tanks, and one in-use tractor diesel tank were present. An active oil or gas production facility, including one well surface tree and aboveground storage tanks, was observed on the subject property near the center of the southern property boundary. One produced water tank, two condensate tanks, one triethylene glycol tank, and a tank labeled as containing PFR-23 were present at the production facility. All tanks appeared to have secondary containment. Warning markers for buried infrastructure including gas and petroleum pipelines and buried cables were seen throughout the subject property. Two communications towers were observed on the east portion of the subject property. The central portion of the subject property is not farmland and appears to be shrubland that is used for keeping livestock. Flocks of sandhill cranes and red-winged blackbirds were observed in the central portion of the subject property. Five residential properties were observed along the perimeter of the subject property and one residence was observed in the central portion of the subject property. A ditch/stream was present east of the central residence. To the south of the central residence, remnants of Rhaps Garden, an exotic tropical plant greenhouse operation, were observed. Buildings, a large greenhouse, and potted plants were present in this area. The greenhouse structure appeared to be abandoned was leaning. Through an opening on the north side of the greenhouse, stacks of plant containers and farming equipment including disassembled cotton ginning equipment could be seen. On the northeast portion of the shrubland portion of the subject property, two out of use tractor diesel tanks were present on the ground. A drainage or irrigation ditch was observed crossing through the center of the subject property in a north/south direction. Smaller ditches were also observed on the subject property. Electric distribution lines were present along the eastern, southern, and western boundaries and the central portion of the subject property. A line of small trees and shrubs separates the western farmland from the rest of the subject property. On the north portion of the subject property, a construction project was occurring.

To the east of the subject property, signs for proposed air quality permits No. 142008L004 and No. 155956L004 were observed. These permits are for proposed operation of concrete batch plants. Warning markers for LPG, crude oil, and high pressure petroleum pipelines were observed on the properties to the east of the subject property. Four residential properties were present to the east of the subject property. To the north of the subject property, an area was observed where illegal dumping of household items had occurred. One oil or gas production facility and one residential property were also present to the north of the subject property. Wind turbines were observed to the north and west of the subject property. To the west of the subject property, three oil or gas production facilities and one

residential property were present. Warning markers for natural gas pipelines were observed to the west of the subject property. To the south of the subject property, U.S. Highway 181 was present. Farmland and farming equipment were located on the south side of U.S. Highway 181.

4.3. Pits, Ponds, and Lagoons

No waste disposal pits, ponds, or lagoons were observed on the subject property during the site visit. A pond on the northwest portion of the subject property was identified as a wetland on a NWI map.

4.4. Stained Soils

No stained soils were observed on the subject property during the site visit.

4.5. Stressed Vegetation

No signs of stressed vegetation were observed on the subject property during the site visit.

4.6. Possible Presence of Polychlorinated Biphenyls (PCBs)

Transformers lacking PCB-free markings were observed in the central portion of the subject property and along the western property boundary and should be assumed to contain PCBs. No other signs of PCB presence or contamination were observed.

4.7. Solid Waste Disposal

Piles of harvested cotton were being burned on two locations on the subject property during the site visit. Many other piles appeared to have been previously burned. Piles of brush, mulch, and lumber were observed in the north central portion of the subject property. To the north of the subject property, an area was observed where illegal dumping of household items such as furniture and children's toys had occurred.

4.8. Identification of Contaminant Migration Paths

The topography of the subject property is relatively flat, with the northeast portion of the subject property being at a slightly lower elevation. The approximate elevation of the subject property is 30 feet above sea level. The most likely migration path for the subject property would be via airborne contaminants, soil infiltration, or groundwater.

4.9. Wastewater

No wastewater system connections were observed on the subject property during the site visit.

4.10. Other Issues

Herbicides and pesticides were most likely applied to the majority of the subject property in the past because it has been used as farmland for many years. If cotton crops were grown on the subject property, arsenical acids may have been used as a defoliant in the past.

5. Interviews

No interviews were conducted for this Phase I ESA.

6. Ecological Resource Characterization

6.1. Waters and Wetlands

The subject property was evaluated for the potential presence of wetlands and/or other hydrologic features to assess the possible need for U.S. Army Corps of Engineers (USACE) permit coverage. U.S. Geological Survey (USGS) National Hydrography Dataset (NHD), U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI), and National Resource Conservation Service (NRCS) Web Soil Survey (WSS) Hydric Soils Dataset maps as well as recent aerial imagery were reviewed. See Exhibit L for NHD Map, Exhibit M for NWI Map, and Exhibit N for WSS Map.

The NHD and NWI maps shows multiple mapped features within the subject property. The NWI map shows mapped features characterized as an approximate 1.37 acre PEM1Cx (Palustrine, Emergent Persistent, Seasonally flooded, Excavated) pond, as well as approximately 3.98 linear miles of drainage canals; approximately 2.31 acres of R5UBFx (Riverine, Unknown Perennial, Unconsolidated Bottom, Semi-permanently flooded, Excavated) riverine features and approximately 9.79 acres of R2UBHx (Riverine, Lower Perennial, Unconsolidated Bottom, Permanently flooded, excavated) riverine features. NHD and NWI features are mapped from aerial imagery and do not guarantee the presence of waters and wetlands as defined in Section 404 of the Clean Water Act (CWA). Furthermore the NWI uses a biological definition of wetlands that do not always adhere to the definition of jurisdictional waters and wetlands as defined by the Section 404 of the CWA and regulated by USACE. Based on the information obtained from these datasets, it appears that the subject property may contain potentially jurisdictional wetlands or hydrologic features. A waters and wetland delineation should be performed and coordination with USACE should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to initiation of work.

6.2. Habitat Characterization

The subject property is located in San Patricio County within the San Antonio-Nueces River Basin and is within the Gulf Coast Prairies and Marshes Ecoregion. According to the Texas Parks and Wildlife Department (TPWD) Ecological Mapping System of Texas (EMST), dominant habitat types within the subject property are Row Crops and Gulf Coast – Coastal Prairie (see Exhibit O). According to the WSS, abundant soil types within the subject property are Victoria clay, 0 to 1 percent slopes (Hydric Rating: 1) and Raymondville clay loam, 0 to 1 percent slopes (Hydric Rating: 5) (see Exhibit N). A Hydric Rating indicates the percentage of the soil type that meets the criteria for hydric soils.

6.3. Historic Resources

According to the Texas Historical Commission's (THC) Texas Historic Site Atlas, no historical markers are located on the subject property. The nearest historical marker, Gregory, is approximately 1.3 miles west of the subject property (see Exhibit P).

6.4. Federal and State Listed Threatened, Endangered, and Rare Species

San Patricio County has a total of 68 Federal and State listed threatened, endangered, and/or rare species with historical ranges within the County. These species are listed in Exhibit Q. Sixty-three of the 68 species would not occur at the subject property due to the lack of suitable habitat. Results of a desktop habitat review identified five federal and state listed species that may potentially occur at or

near the subject property (see Table 6-1 below). In order to determine whether any suitable habitat for any of the five species exists at the subject property, further evaluation for threatened and endangered species should be performed.

Table 6-1 – Federal and State Listed Threatened, Endangered, or Rare Species of San Patricio County

Species	Federal Status*	State Status*	Description of Suitable Habitat	Comments
Black-spotted newt (<i>Notophthalmus meridionalis</i>)	-	T	Wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods; Gulf Coastal Plain south of the San Antonio River.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
South Texas siren (<i>Siren sp 1</i>)	-	T	Wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods, Texas south of Balcones Escarpment.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
Eskimo Curlew (<i>Numenius borealis</i>)	LE	E	Grasslands, pastures, plowed fields, and less frequently, marshes and mudflats.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round.
Henslow's Sparrow (<i>Ammodramus henslowii</i>)	-	-	Weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; bare areas.	Suitable habitat believed to occur in or near subject property. Species could potential occur in wintering months.
South Texas spikesedge (<i>Eleocharis austrotexana</i>)	-	-	Occurring in miscellaneous wetlands at scattered locations on the coastal plain.	Suitable habitat believed to occur in or near subject property. Species could potentially occur year-round. Perennial. Global Rank: G3. Flowering /fruiting September.

*T = Threatened, E = Endangered, LE = Federally Listed Endangered, - = Species of Greatest Conservation Need but with no regulatory listing status

7. Conclusion

Hanson Professional Services Inc. conducted a Phase I Environmental Site Assessment (ESA) of approximately 2,408 acres of mostly undeveloped farmland located to the north of U.S. Highway 181 near Gregory, San Patricio County, Texas. The ESA was performed in 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. A preliminary ecological resource characterization was also conducted for this property to supplement the Phase I ESA. This characterization consisted of research and review of information pertaining to wetlands, habitat, historic resources, and threatened and endangered species.

The majority of the subject property is currently used as farmland which was fallow at the time of the site visit. Signs of historical and current oil and gas exploration were present on the subject property. Many longstanding oil and gas well pads were observed throughout the subject property and were being used as storage areas for harvested cotton, hay bales, or farming equipment. Piles of harvested cotton were being burned on two locations on the subject property during the site visit. Many other piles appeared to have been previously burned. Warning markers for buried infrastructure including gas and petroleum pipelines and buried cables were observed throughout the subject property at various locations. Two communications towers were observed on the east portion of the subject property. Remnants of Rhaps Garden, an exotic tropical plant greenhouse operation, were observed in the central portion of the subject property. A drainage or irrigation ditch was observed crossing through the center of the subject property in a north/south direction. Smaller ditches and a pond were also observed on the subject property.

Signs of historical and current oil and gas exploration were present on some surrounding properties. Warning markers for natural gas, liquefied petroleum gas (LPG), crude oil, and high pressure petroleum pipelines were observed on the properties adjacent to the subject property. To the east of the subject property, signs for proposed air quality permits for two concrete batch plants were observed. To the north of the subject property, an area was observed where illegal dumping of household items had occurred.

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 Professional Services Inc. through GeoSearch. GeoSearch's search of available government records identified three sites on the subject property. Magnum Producing, LP – Bartosh GU #4, McKamy Et AL, and Bartosh GU #4 were all identified in the TIER II Chemical Reporting Program Facilities (TIER II) database. Information on the sites indicates that they are crude petroleum and natural gas extraction sites and store produced water, produced hydrocarbons, and crude oil. Well pads and equipment for these sites were not present at the time of the site visit.

Sites identified within the search radius beyond the subject property include Floerke #2/Magnum Producing, LP – Floerke #2 and Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26. Floerke #2/Magnum Producing, LP – Floerke #2 is located approximately 300 feet west of the northwest portion of the subject property and was identified in the TIER II database. This site was also identified as a crude petroleum and natural gas extraction site that stores produced water, produced hydrocarbons, and crude oil.

Eland Energy, Inc./B.L. Oilfield Services, L.P. Rig Number 26 is also located approximately 300 feet west of the northwest portion of the subject property and was identified in the Facility Registry System

(FRSTX) database. Information on this site indicates that it is a site that provides support activities for oil and gas operations.

A search of the Railroad Commission of Texas's (RRC) records identified 65 oil or gas wells on the subject property. Records indicate that 15 underground pipelines cross the subject property. Eighty oil or gas wells were located within 0.5 miles of the subject property.

No stained soil, stressed vegetation, or waste disposal pits ponds, or lagoons were observed on the subject property during the site visit.

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:

- *Past Potential Use of Herbicides and Pesticides* – Herbicides and pesticides were most likely applied to the majority of the subject property in the past because it has been used as farmland since at least 1950. If cotton crops were grown on the subject property, arsenical acids may have been used as a defoliant in the past.
- *Past and Current Oil and Gas Exploration* – RRC records for one oil well, 12 plugged oil wells, two plugged oil and gas wells, seven gas wells, 15 plugged gas wells, five sidetrack surface locations, 19 dry hole wells, and four permitted locations were identified for the subject property. GeoSearch's search identified three sites on the subject property as crude petroleum and natural gas extraction sites that store produced water, produced hydrocarbons, and crude oil. An active oil or gas production facility, including one gas well surface tree and aboveground storage tanks, was observed on the subject property near the center of the southern property boundary. One produced water tank, two condensate tanks, one triethylene glycol tank, and a tank labeled as containing PFR-23 were present at the production facility. Three oil or gas well surface trees that appeared inactive were observed on longstanding well pads on the subject property.
- *Presence of Underground Pipelines* – There are 15 buried pipelines present in the subject property, including two abandoned and one in-service crude oil pipeline, one in-service nitrogen pipeline, and four abandoned and seven in-service natural gas pipelines.

Off-Site RECs:

- *Past and Current Oil and Gas Exploration* – Records for eighty oil or gas wells were identified for properties within 0.5 miles of the subject property. An inactive oil or gas production facility was identified in GeoSearch's records search as being located along CR 3677 within 300 feet of the subject property. Two active oil or gas production facilities were observed along County Road 3677 within 375 feet of the subject property.

Recommendations

Due to the recognized environmental conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

The ecological resources characterization found that the subject property may contain potentially jurisdictional wetland or hydrologic features; therefore, a waters and wetlands delineation should be performed and coordination with the U.S. Army Corps of Engineers should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to starting site work.

- Five Federal and State listed endangered species may potentially occur at or near the subject property. To determine whether suitable habitat for any of the potentially occurring species exists, further evaluation for threatened and endangered species should be performed.

Recommendations

Due to the recognized environmental conditions associated with the subject property, a Phase II Environmental Site Assessment is recommended.

The ecological resources characterization found that the subject property may contain potentially jurisdictional wetland or hydrologic features; therefore, a waters and wetlands delineation should be performed and coordination with the U.S. Army Corps of Engineers should be initiated in order to obtain an Approved Jurisdictional Determination for the subject property prior to starting site work.

Five Federal and State listed endangered species may potentially occur at or near the subject property. To determine whether suitable habitat for any of the potentially occurring species exists, further evaluation for threatened and endangered species should be performed.

Figure 1

Subject Property Location Map



Figure 1
Subject Property Location Map
 McKamey Site
 Gregory, San Patricio County, Texas

Note: Property Location Shown is Approximate.



Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	18E0013	Date:	1-24-18	1 of 1

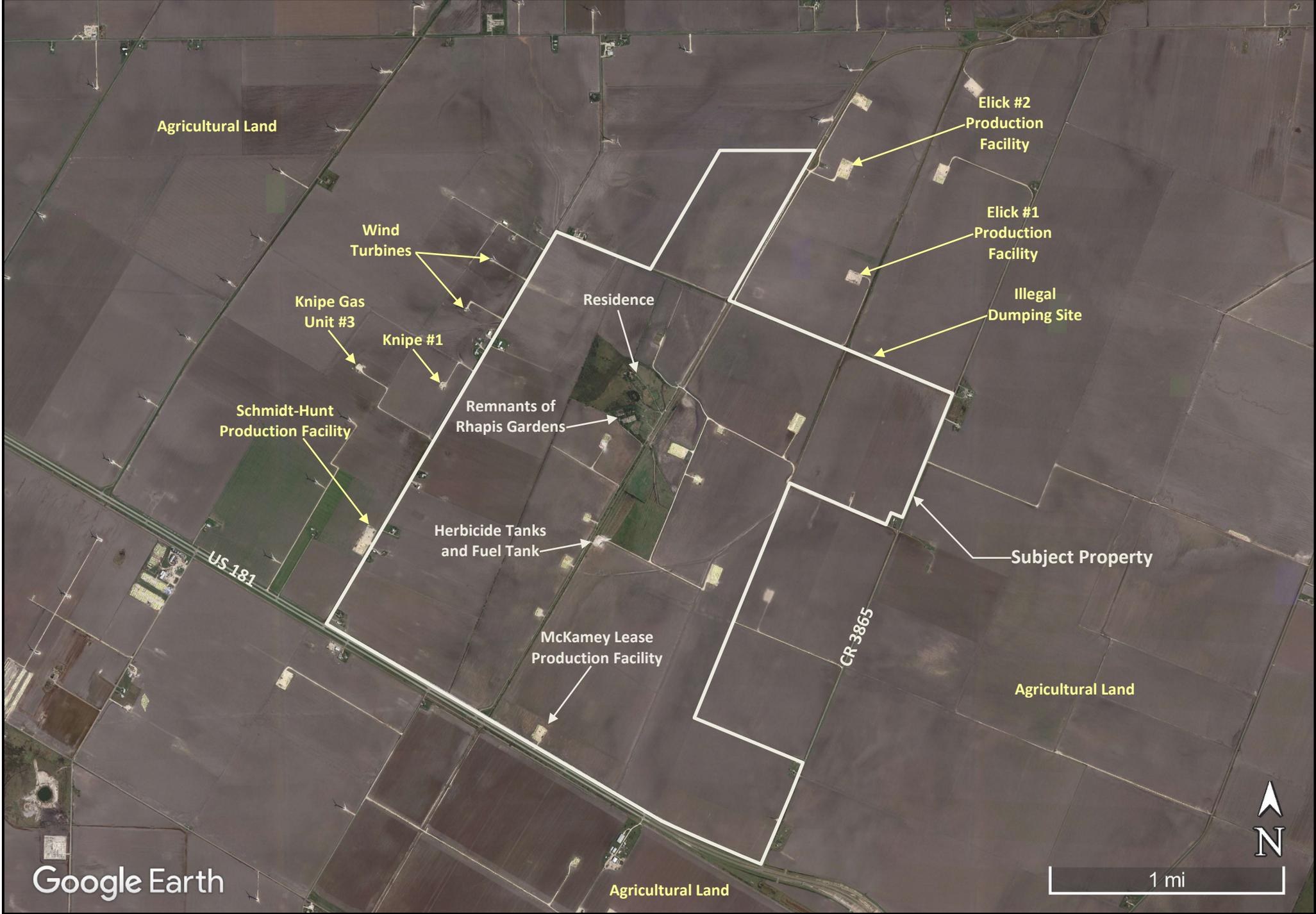
Google Earth

5 mi



Figure 2

Subject Property Detail Map



Google Earth



Note: Property Boundaries Shown are Approximate.

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	18L0013	Date:	1/24/18	1 of 1

Figure 2 - Subject Property Detail Map
 McKamey Site
 Gregory, San Patricio County, TX

Exhibit A

Physical Setting Report



On time. On target. In touch.™

GeoPlus Physical Setting Maps

[Satellite view](#)

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219579

Project #: 18L0013

Date: 01/17/2018

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Target Property Summary

Target Property Information

CCREDC McKamey Site Phase I ESA

US-181

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Portland TX: 78374

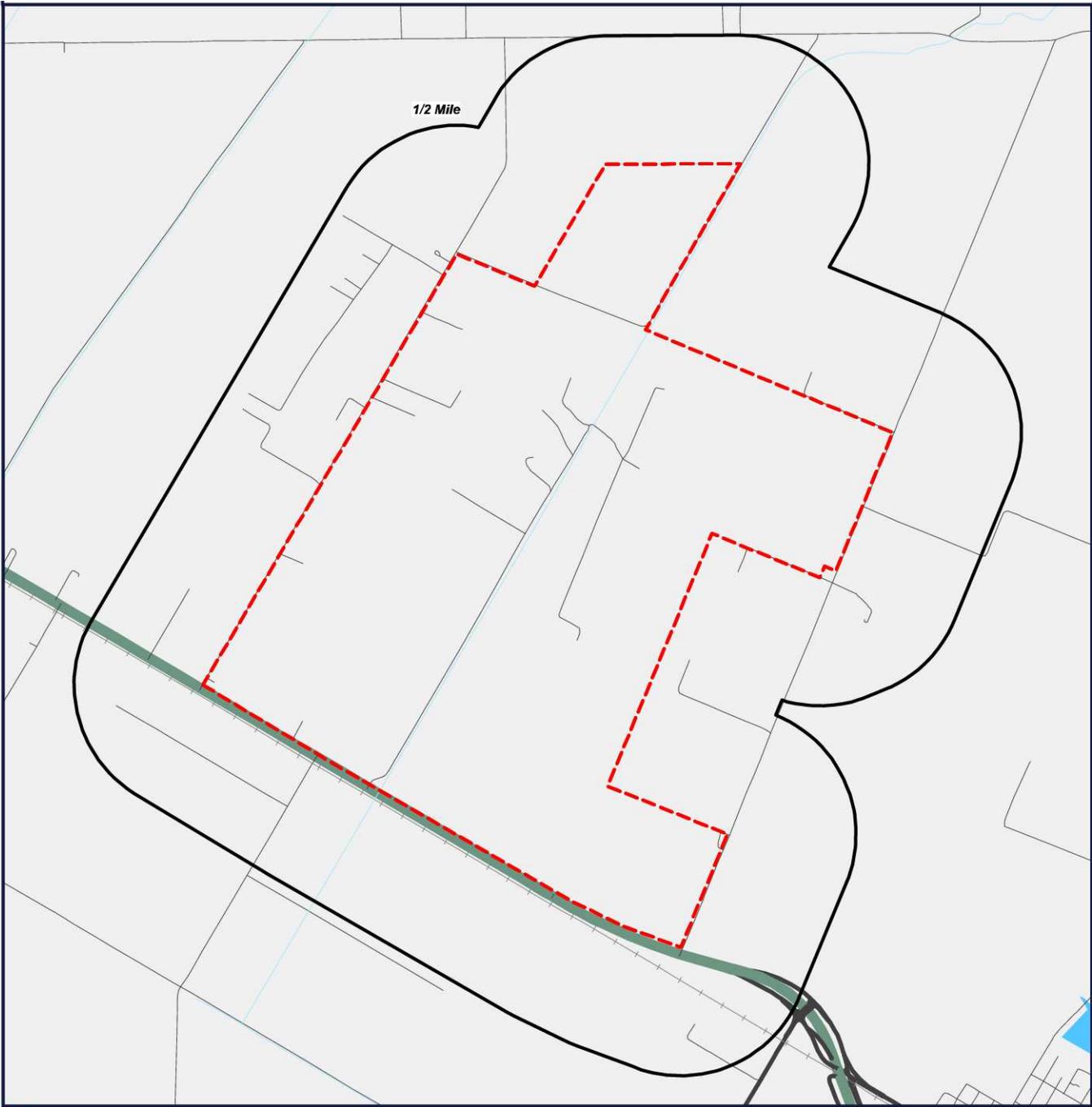
Taft TX: 78390

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

FEMA Map



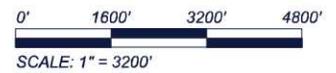
Target Property (TP)

- | | | | |
|--|---------|--|----------------------------------|
| | ZONE A | | ZONE D |
| | ZONE AE | | ZONE X |
| | ZONE AH | | AREA NOT INCLUDED |
| | ZONE A0 | | OPEN WATER |
| | ZONE AR | | NDA - DIGITAL DATA NOT AVAILABLE |
| | ZONE V | | |
| | ZONE VE | | |

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



Letter of map revision date: 12/16/2016
 Latest study effective date: 11/04/2016
 Panel #: 48025C0500C



[Click here to access Satellite view](#)

FEMA Report

FEMA - Federal Emergency Management Agency

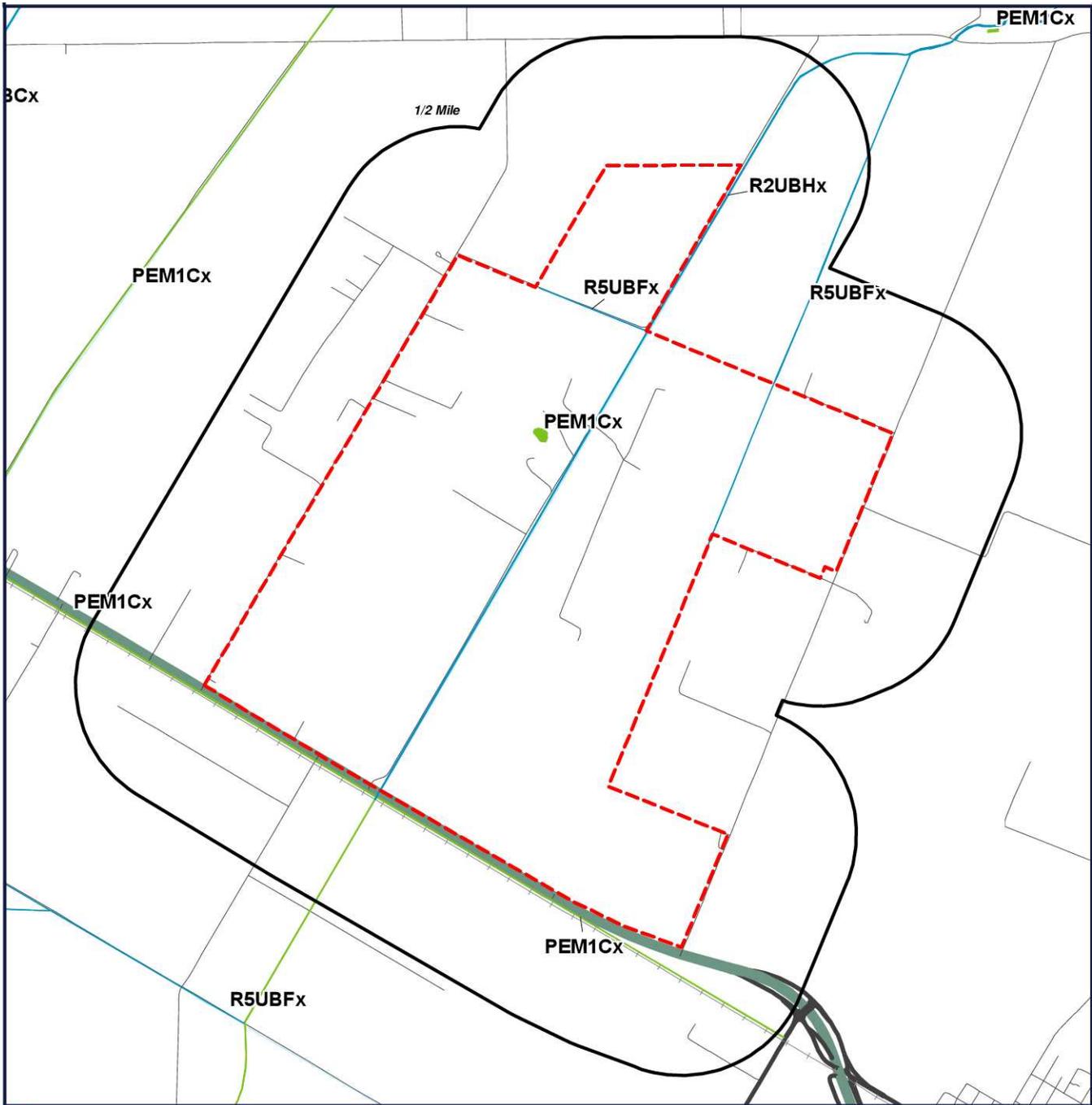
The National Flood Hazard Layer (NFHL) data used in this report is derived from the Federal Emergency Management Agency. The NFHL dataset is a compilation of effective Flood Insurance Rate Map (FIRM) databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance 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. This data was provided by the Federal Emergency Management Agency's Map Service Center in November of 2013.

FEMA Flood Zone Definitions within Search Radius

X	Zone X
---	--------

An area that is determined to be outside the 100 and 500 year floodplains.

NWI Map

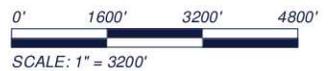


Target Property (TP)

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374

Map Date: 11/30/2016

- | | | | | | |
|--|-----------------------------------|--|----------|--|----------------------------------|
| | ESTUARINE AND MARINE DEEPWATER | | LAKE | | FRESHWATER POND |
| | ESTUARINE AND MARINE WETLAND | | OTHER | | NDA - DIGITAL DATA NOT AVAILABLE |
| | FRESHWATER EMERGENT WETLAND | | RIVERINE | | |
| | FRESHWATER FORESTED/SHRUB WETLAND | | | | |



[Click here to access Satellite view](#)

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

PEM1Cx

SYSTEM: **PALUSTRINE**
CLASS: **EMERGENT**
SUBCLASS: **BROAD-LEAVED DECIDUOUS**
WATER REGIME: **SEASONALLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

R2UBHx

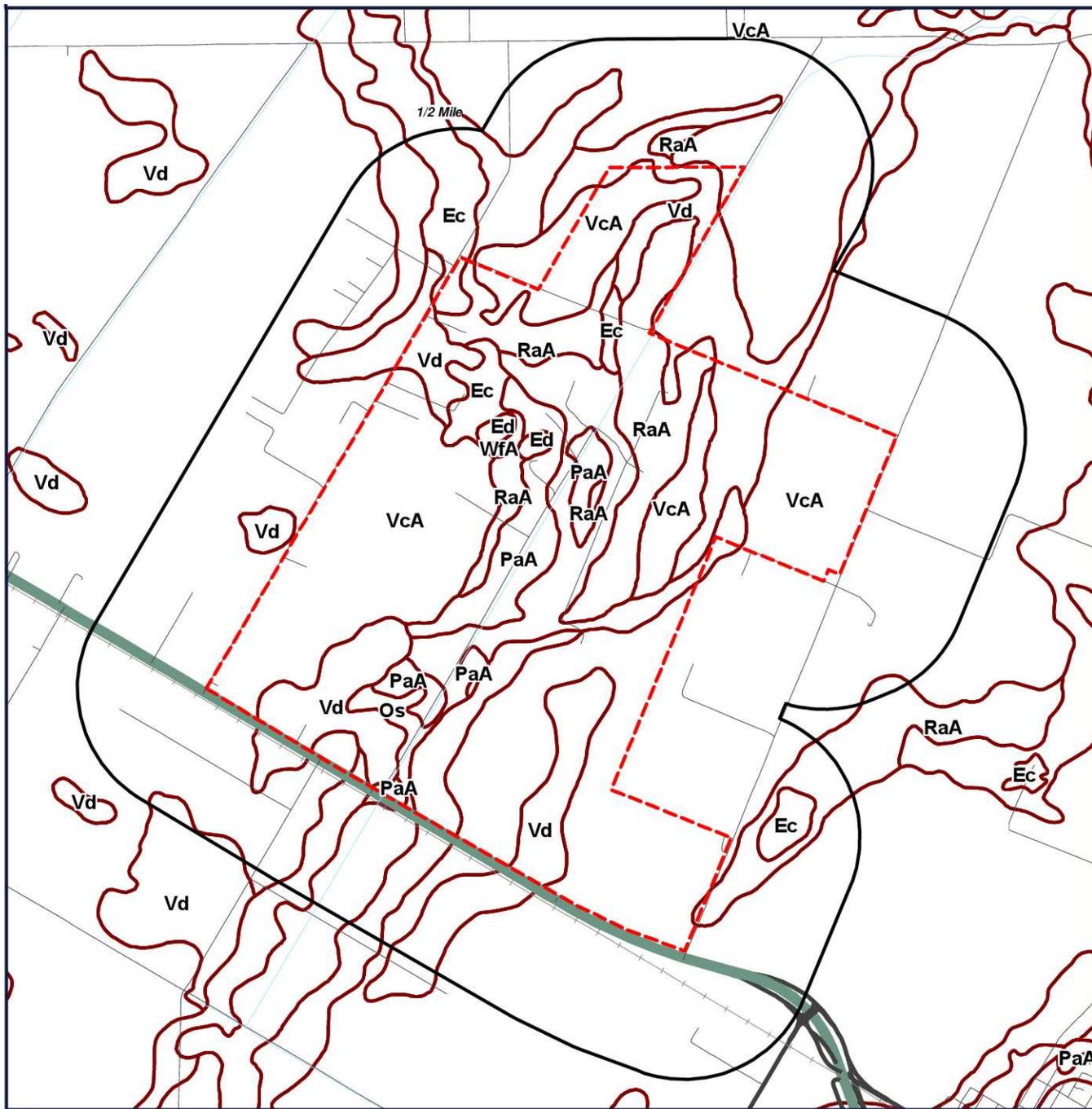
SYSTEM: **RIVERINE**
SUBSYSTEM: **LOWER PERENNIAL**
CLASS: **UNCONSOLIDATED BOTTOM**
WATER REGIME: **PERMANENTLY FLOODED**
SPECIAL MODIFIER: **EXCAVATED**

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)

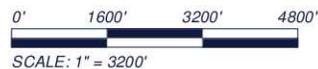
 SOIL BOUNDARY

 NOTCOM - DIGITAL DATA NOT AVAILABLE/NOT COMPLETE

CCREDC McKamey Site Phase I

**ESA
US-181**

**Gregory, Texas
78374**



[Click here to access Satellite view](#)

SOIL Report

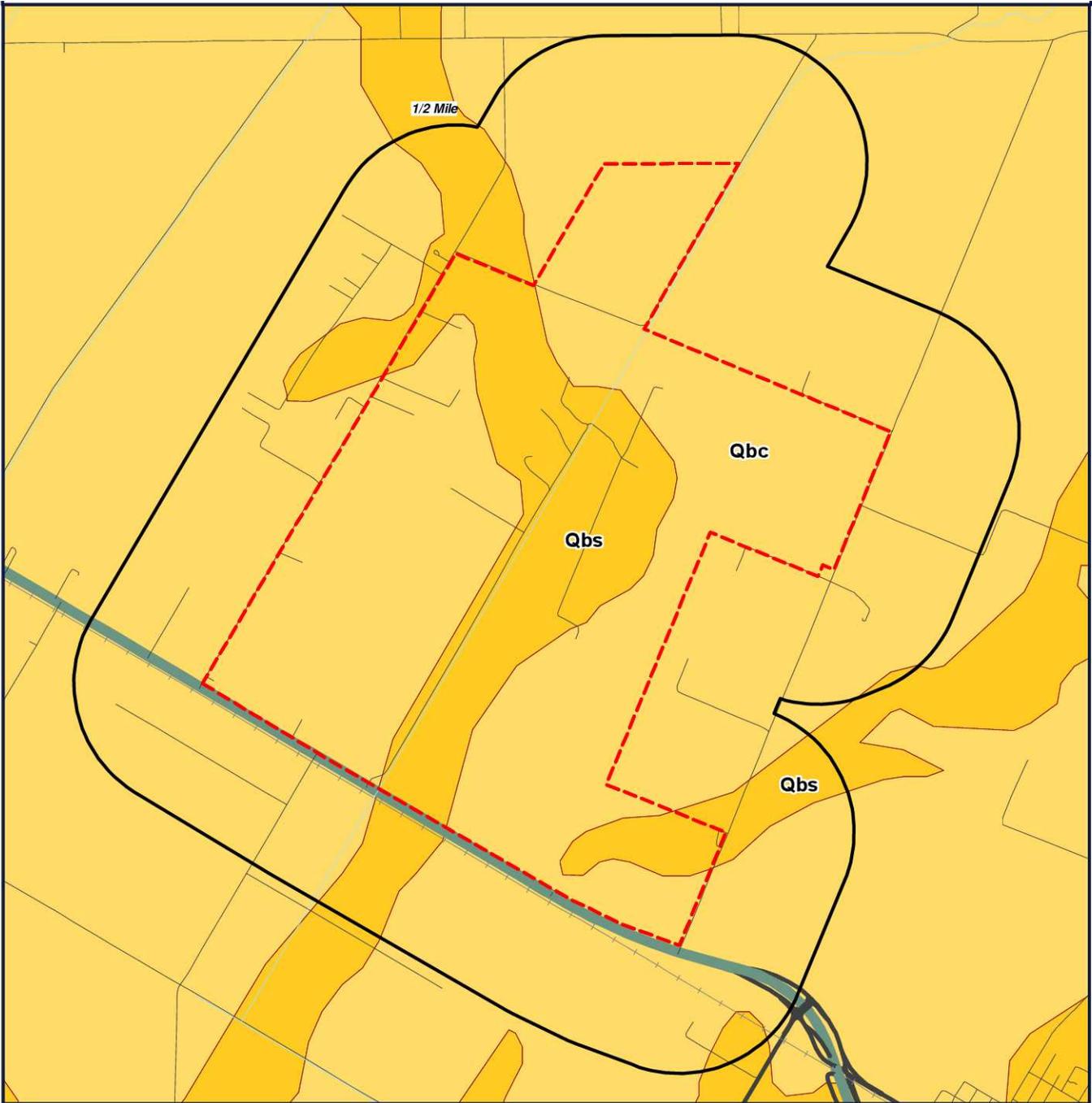
Soil Surveys

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

Ec	Banquete clay, 0 to 1 percent slopes
Ed	Edroy clay, 0 to 1 percent slopes, ponded
Os	Calallen sandy clay loam, 0 to 1 percent slopes
PaA	Papalote fine sandy loam, 0 to 1 percent slopes
RaA	Raymondville clay loam, 0 to 1 percent slopes
VcA	Victoria clay 0 to 1 percent slopes
Vd	Victoria clay, depressional
WfA	Willacy fine sandy loam, 0 to 1 percent slopes

Geology Map



 Target Property (TP)

CCREDC McKamey Site Phase I

**ESA
US-181
Gregory, Texas
78374**



0' 1600' 3200' 4800'
SCALE: 1" = 3200'

[Click here to access Satellite view](#)

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: **Qbc**

UNIT NAME: **Beaumont Formation, areas predominantly clay**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Pleistocene-Late**

UNIT DESCRIPTION:

Beaumont Formation, areas predominantly clay

ADDITIONAL UNIT INFORMATION:

On McAllen-Brownsville Sheet (1976) dominantly clay and mud of low permeability. (from Moore and Wermund, 1993a, 1993b): Light- to dark-gray and bluish- to greenish-gray clay and silt, intermixed and interbedded; contains beds and lenses of fine sand, de

ROCKTYPE/S: **clay or mud; silt;**

GEOLOGY SYMBOL: **Qbs**

UNIT NAME: **Beaumont Formation, areas predominantly sand**

UNIT AGE: **Phanerozoic | Cenozoic | Quaternary | Pleistocene-Late**

UNIT DESCRIPTION:

Beaumont Formation, areas predominantly sand

ADDITIONAL UNIT INFORMATION:

(from Moore and Wermund, 1993a, 1993b) Yellowish- to brownish-gray, locally reddish orange, v. fine to fine quartz sand, silt, and minor fine gravel, intermixed and interbedded. Includes stream channel, point-bar, cravasse-splay, and natural levee ridge

ROCKTYPE/S: **sand; silt; clay or mud; gravel**

Exhibit B

Radius Report



On time. On target. In touch.™

Radius Report

[Satellite view](#)

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219572

Project #: 18L0013

Date: 01/17/2018

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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

CCREDC McKamey Site Phase I ESA

US-181

Gregory, Texas 78374

Coordinates

Area centroid (-97.319966, 27.9571833)

30 feet above sea level

USGS Quadrangle

Gregory, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Gregory TX: 78359

Portland TX: 78374

Taft TX: 78390

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
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	ECHKOR06	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
FACILITY REGISTRY SYSTEM	FRSTX	2	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	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	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		2	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
DRY CLEANER REGISTRATION DATABASE	DCR	0	0	0.2500
PETROLEUM STORAGE TANKS	PST	0	0	0.2500
BROWNFIELDS SITE ASSESSMENTS	BSA	0	0	0.5000
CLOSED & ABANDONED LANDFILL INVENTORY	CALF	0	0	0.5000
LEAKING PETROLEUM STORAGE TANKS	LPST	0	0	0.5000
MUNICIPAL SOLID WASTE LANDFILL SITES	MSWLF	0	0	0.5000
RADIOACTIVE WASTE SITES	RWS	0	0	0.5000
RAILROAD COMMISSION VCP AND BROWNFIELD SITES	RRCVCP	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	0	0	0.5000
INDUSTRIAL AND HAZARDOUS WASTE CORRECTIVE ACTION SITES	IHWCA	0	0	1.0000
STATE SUPERFUND SITES	SF	0	0	1.0000
SUB-TOTAL		0	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
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	5	0	TP/AP
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	IOP	0	0	0.5000
RECYCLING FACILITIES	WMRF	0	0	0.5000
SALT CAVERNS FOR PETROLEUM STORAGE	STCV	0	0	0.5000
SUB-TOTAL		5	0	

Database Summary

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		7	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	2	NS	NS	NS	NS	NS	2
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	0.0200	0	NS	NS	NS	NS	NS	0
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	0.0200	0	NS	NS	NS	NS	NS	0
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
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
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	0	NS	NS	0

Database Radius Summary

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

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
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	5	NS	NS	NS	NS	NS	5
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	0	0	NS	NS	0
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
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
IHWCA	1.0000	0	0	0	0	0	NS	0
SF	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		5	0	0	0	0	0	5

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						
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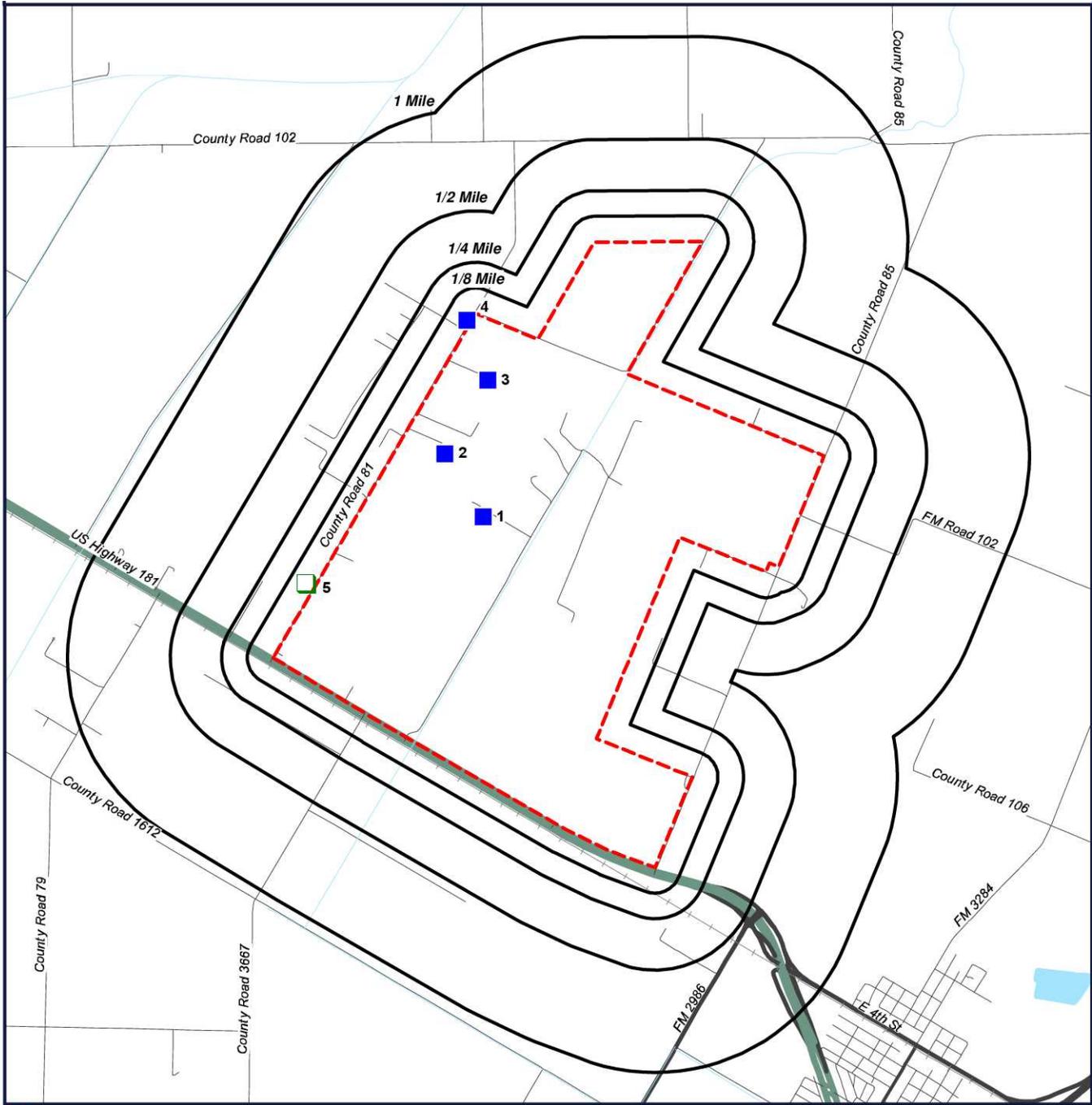
TOTAL		7	0	0	0	0	0	7
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NOTES:

NS = NOT SEARCHED

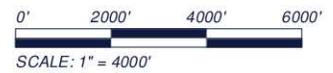
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



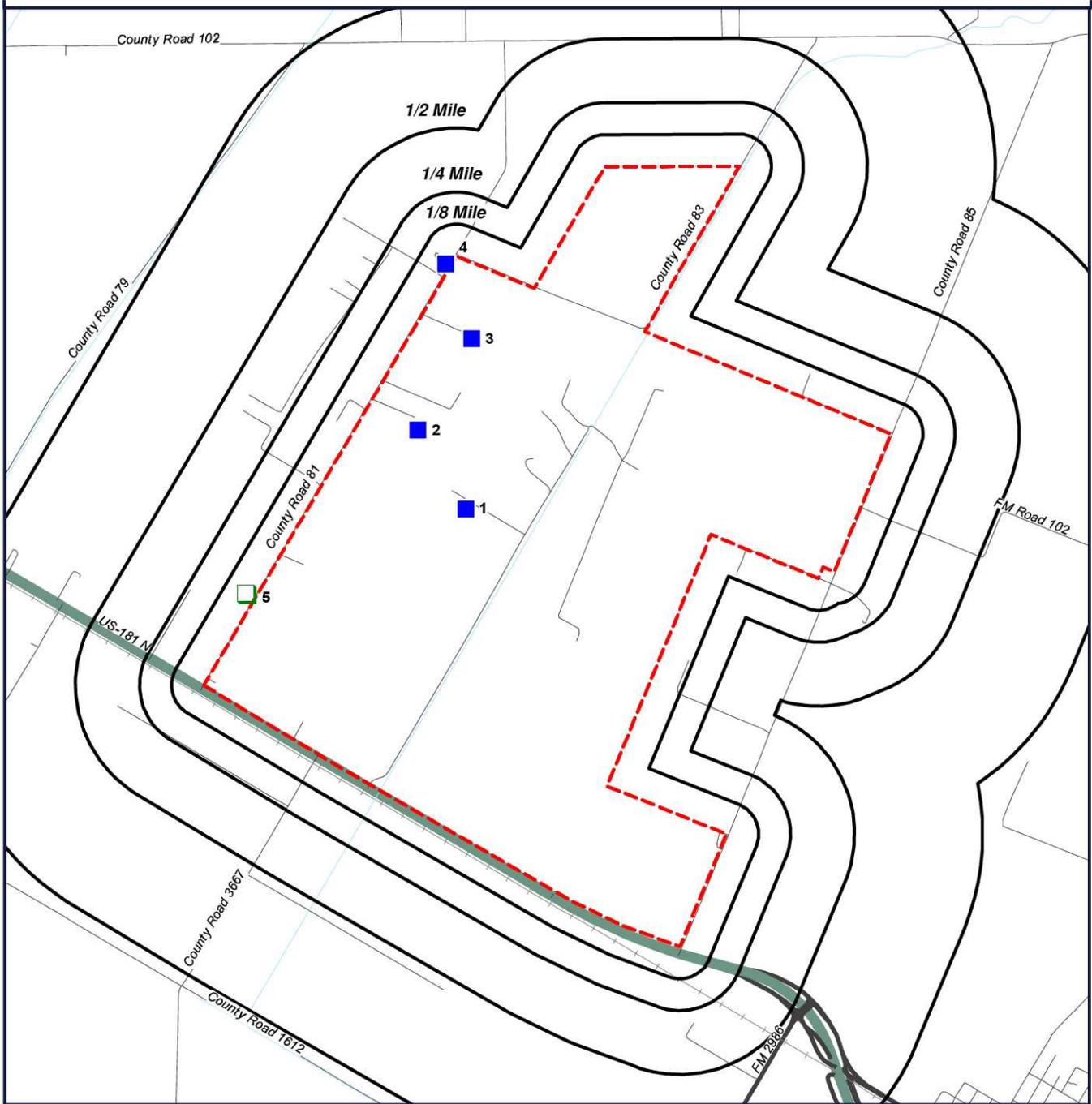
- Target Property (TP)
- TIERII
- FRSTX

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



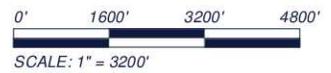
[Click here to access Satellite view](#)

Radius Map 2



- Target Property (TP)
- TIERII
- FRSTX

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



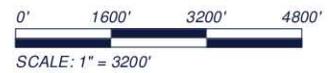
[Click here to access Satellite view](#)

Ortho Map



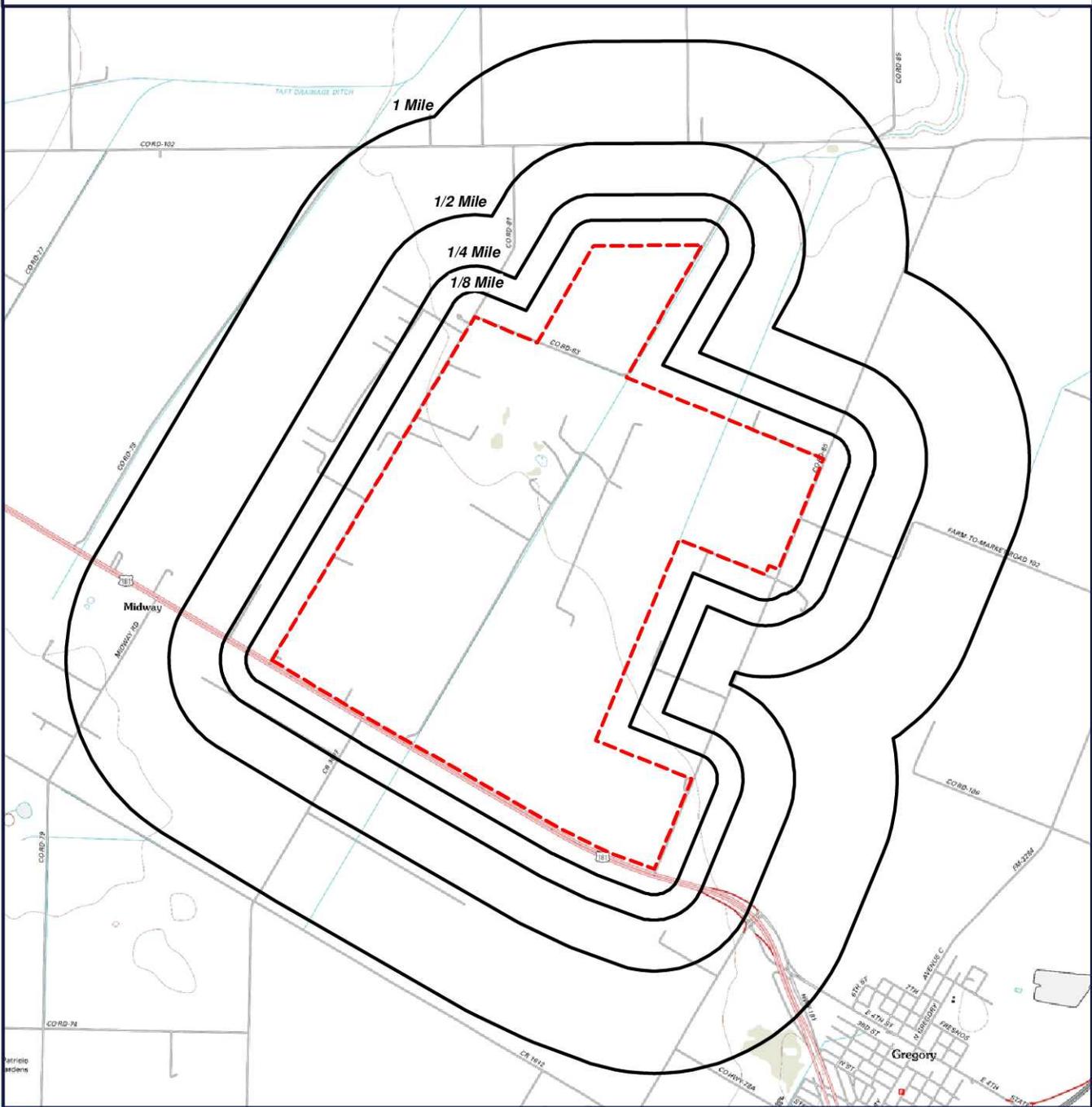
- Target Property (TP)
- TIERII
- FRSTX

Quadrangle(s): Gregory
CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



[Click here to access Satellite view](#)

Topographic Map



 Target Property (TP)

Quadrangle(s): Gregory
Source: USGS, 02/05/2013
CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



0' 2000' 4000' 6000'
SCALE: 1" = 4000'

[Click here to access Satellite view](#)

Located Sites Summary

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

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	TIERII	7M5JUV040FJM	Higher (31 ft.)	TP	MAGNUM PRODUCING, LP - BARTOSH GU #4	RRC #155203, TAFT, TX 78930	17
2	TIERII	25JHDC01A0LA	Equal (30 ft.)	TP	MCKAMY ET AL	LAT/LONG, SINTON, TX 78387	19
3	TIERII	4YNFZ301TG4 G	Lower (29 ft.)	TP	BARTOSH GU # 4	SEE LAT-LONG, SEE LAT-LONG, TX ?????	21
4	TIERII	4YNG3R023GWS	Lower (29 ft.)	0.019 mi. WNW (100 ft.)	FLOERKE # 2	SEE LAT-LONG, SEE LAT-LONG, TX ?????	22
4	TIERII	7M5HCF00KUUW	Lower (29 ft.)	0.019 mi. WNW (100 ft.)	MAGNUM PRODUCING, LP - FLOERKE #2	RRC #090171 & 167295, TAFT, TX 78390	23
5	FRSTX	110059070954	Higher (37 ft.)	0.019 mi. WNW (100 ft.)	ELAND ENERGY, INC.	COUNTY ROAD 3677, TAFT, TX 78390	25
5	FRSTX	110059555333	Higher (37 ft.)	0.019 mi. WNW (100 ft.)	B.L. OILFIELD SERVICES, L.P. RIG NUMBER 26	COUNTY ROAD 3677, TAFT, TX 78390	26

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: 30 ft.

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

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	TIERII	31 ft.	MAGNUM PRODUCING, LP - BARTOSH GU #4	RRC #155203, TAFT, TX 78930	17
2	TIERII	30 ft.	MCKAMY ET AL	LAT/LONG, SINTON, TX 78387	19
5	FRSTX	37 ft.	ELAND ENERGY, INC.	COUNTY ROAD 3677, TAFT, TX 78390	25
5	FRSTX	37 ft.	B.L. OILFIELD SERVICES, L.P. RIG NUMBER 26	COUNTY ROAD 3677, TAFT, TX 78390	26

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
3	TIERII	29 ft.	BARTOSH GU # 4	SEE LAT-LONG, SEE LAT-LONG, TX ?????	21
4	TIERII	29 ft.	FLOERKE # 2	SEE LAT-LONG, SEE LAT-LONG, TX ?????	22
4	TIERII	29 ft.	MAGNUM PRODUCING, LP - FLOERKE #2	RRC #090171 & 167295, TAFT, TX 78390	23

Tier I I Chemical Reporting Program Facilities (TIERII)

MAP ID# 1

Distance from Property: 0 mi. (0 ft.) X
Elevation: 31 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: 7M5JUV040FJM
SITE ID: FATR20127M5JUV040FJM
NAME: MAGNUM PRODUCING, LP - BARTOSH GU #4
ADDRESS: RRC #155203
TAFT, TX 78930
SIGNED DATE: 03/05/2013
VALIDATION REPORT: NOT REPORTED
MAILING ADDRESS: 500 NORTH SHORELINE, SUITE 322
CORPUS CHRISTI, TX 78471

SITE DETAILS

SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
CHEMICAL LOCATION:
N27.95966, W97.32475
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
N27.95966, W97.32475
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
ON SITE
CHEMICAL AMOUNT: 101506 POUNDS
CHEMICAL LOCATION:
ON SITE
CHEMICAL AMOUNT: 168 BARRELS
CHEMICAL LOCATION:
N27.95966, W97.32475
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
N27.95966, W97.32475
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL NAME: PRODUCED HYDROCARBONS
MAXIMUM AMOUNT: 999999 POUNDS
FIRE: YES GAS: YES LIQUID: YES SOLID: YES
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: PRODUCED WATER
MAXIMUM AMOUNT: 999999 POUNDS
FIRE: YES GAS: YES LIQUID: YES SOLID: YES
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: PRODUCED HYDROCARBONS

Tier I I Chemical Reporting Program Facilities (TIERII)

MAXIMUM AMOUNT: **101506 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED WATER**

MAXIMUM AMOUNT: **64877 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED HYDROCARBONS**

MAXIMUM AMOUNT: **999999 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED WATER**

MAXIMUM AMOUNT: **999999 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

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Tier I I Chemical Reporting Program Facilities (TIERII)

MAP ID# 2

Distance from Property: 0 mi. (0 ft.) X
Elevation: 30 ft. (Equal to TP)

SITE INFORMATION

UNIQUE ID: 25JHDC01A0LA
SITE ID: FATR201225JHDC01A0LA
NAME: MCKAMY ET AL
ADDRESS: LAT/LONG
SINTON, TX 78387
SIGNED DATE: 1/21/2013
VALIDATION REPORT: NOT REPORTED
MAILING ADDRESS: 13455 NOEL RD, STE 2000
DALLAS, TX 75240

SITE DETAILS

SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
CHEMICAL LOCATION:
THROUGHOUT FACILITY
CHEMICAL AMOUNT: NOT REPORTED
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: NOT REPORTED
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: NOT REPORTED MIXTURE: YES
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: NOT REPORTED
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: NOT REPORTED MIXTURE: YES
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: NOT REPORTED
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: NOT REPORTED MIXTURE: YES
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: NOT REPORTED

Tier II Chemical Reporting Program Facilities (TIERII)

FIRE: **YES** GAS: **NOT REPORTED** LIQUID: **YES** SOLID: **NOT REPORTED**
PURE: **NOT REPORTED** MIXTURE: **YES**

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Tier I I Chemical Reporting Program Facilities (TIERII)

MAP ID# 3

Distance from Property: 0 mi. (0 ft.) X
Elevation: 29 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: 4YNFZ301TG4G
SITE ID: FATR20094YNFZ301TG4G
NAME: BARTOSH GU # 4
ADDRESS: SEE LAT-LONG
SEE LAT-LONG, TX ?????
SIGNED DATE: 2/19/2010
VALIDATION REPORT: THIS FACILITY PASSED ALL VALIDATION CHECKS.
MAILING ADDRESS: 500 N. SHORELINE BLVD., SUITE 322
CORPUS CHRISTI, TX 78401

SITE DETAILS

SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: MAGNUM PRODUCING, LP
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: MAGNUM PRODUCING, LP
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: MAGNUM PRODUCING, LP
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 400 BARRELS
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 400 BARRELS
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 400 BARRELS
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 1800 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 90,720 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 90,720 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED

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Tier I I Chemical Reporting Program Facilities (TIERII)

MAP ID# 4

Distance from Property: 0.019 mi. (100 ft.) WNW
Elevation: 29 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: 4YNG3R023GWS
SITE ID: FATR20094YNG3R023GWS
NAME: FLOERKE # 2
ADDRESS: SEE LAT-LONG
SEE LAT-LONG, TX ?????
SIGNED DATE: 2/19/2010
VALIDATION REPORT: THIS FACILITY PASSED ALL VALIDATION CHECKS.
MAILING ADDRESS: 500 N. SHORELINE BLVD., SUITE 322
CORPUS CHRISTI, TX 78401

SITE DETAILS

SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: MAGNUM PRODUCING, LP
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: MAGNUM PRODUCING, LP
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: MAGNUM PRODUCING, LP
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 300 BARRELS
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 300 BARRELS
CHEMICAL LOCATION:

WELL SITE

CHEMICAL AMOUNT: 300 BARRELS
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 1500 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 90,720 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: CRUDE OIL
MAXIMUM AMOUNT: 90,720 POUNDS
FIRE: YES GAS: NOT REPORTED LIQUID: YES SOLID: NOT REPORTED
PURE: YES MIXTURE: NOT REPORTED

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Tier I I Chemical Reporting Program Facilities (TIERII)

MAP ID# 4

Distance from Property: 0.019 mi. (100 ft.) WNW
Elevation: 29 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: 7M5HCF00KUUW
SITE ID: FATR20127M5HCF00KUUW
NAME: MAGNUM PRODUCING, LP - FLOERKE #2
ADDRESS: RRC #090171 & 167295
TAFT, TX 78390
SIGNED DATE: 03/05/2013
VALIDATION REPORT: NOT REPORTED
MAILING ADDRESS: 500 NORTH SHORELINE, SUITE 322
CORPUS CHRISTI, TX 78471

SITE DETAILS

SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
SITE TYPE: CRUDE PETROLEUM & NATURAL GAS
SITE TYPE: CRUDE PETROLEUM AND NATURAL GAS EXTRACTION
CHEMICAL LOCATION:
N27.97380, W97.32650
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
N27.97380, W97.32650
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
ON SITE
CHEMICAL AMOUNT: 101506 POUNDS
CHEMICAL LOCATION:
ON SITE
CHEMICAL AMOUNT: 168 BARRELS
CHEMICAL LOCATION:
N27.97380, W97.32650
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL LOCATION:
N27.97380, W97.32650
CHEMICAL AMOUNT: 999999 POUNDS
CHEMICAL NAME: PRODUCED HYDROCARBONS
MAXIMUM AMOUNT: 999999 POUNDS
FIRE: YES GAS: YES LIQUID: YES SOLID: YES
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: PRODUCED WATER
MAXIMUM AMOUNT: 999999 POUNDS
FIRE: YES GAS: YES LIQUID: YES SOLID: YES
PURE: YES MIXTURE: NOT REPORTED
CHEMICAL NAME: PRODUCED HYDROCARBONS

Tier I I Chemical Reporting Program Facilities (TIERII)

MAXIMUM AMOUNT: **101506 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED WATER**

MAXIMUM AMOUNT: **64877 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED HYDROCARBONS**

MAXIMUM AMOUNT: **999999 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PRODUCED WATER**

MAXIMUM AMOUNT: **999999 POUNDS**

FIRE: **YES** GAS: **YES** LIQUID: **YES** SOLID: **YES**

PURE: **YES** MIXTURE: **NOT REPORTED**

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Facility Registry System (FRSTX)

MAP ID# 5

Distance from Property: 0.019 mi. (100 ft.) WNW
Elevation: 37 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110059070954

NAME: **ELAND ENERGY, INC.**

LOCATION ADDRESS: COUNTY ROAD 3677
TAFT, TX 78390

COUNTY: **SAN PATRICIO**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

ELAND ENERGY, INC.

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

213112 - SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS.

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Facility Registry System (FRSTX)

MAP ID# 5

Distance from Property: 0.019 mi. (100 ft.) WNW
Elevation: 37 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: 110059555333

NAME: B.L. OILFIELD SERVICES, L.P. RIG NUMBER 26

LOCATION ADDRESS: COUNTY ROAD 3677
TAFT, TX 78390

COUNTY: SAN PATRICIO

EPA REGION: 06

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

B.L. OILFIELD SERVICES, L.P. RIG NUMBER 26

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - OSHA-OIS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

213112 - SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS.

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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.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

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: 07/01/16

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

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

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

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

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

Environmental Records Definitions - FEDERAL

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR06 Enforcement and Compliance History Information

VERSION DATE: 08/26/17

The EPA'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: 10/15/17

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

FRSTX Facility Registry System

VERSION DATE: 09/06/17

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

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 08/30/17

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

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/23/17

Environmental Records Definitions - FEDERAL

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

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

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.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

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

PADS PCB Activity Database System

VERSION DATE: 07/18/17

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

Environmental Records Definitions - FEDERAL

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

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

RCRASC RCRA Sites with Controls

VERSION DATE: 11/21/17

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

SEMSLIENS SEMS Lien on Property

VERSION DATE: 10/10/17

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.

Environmental Records Definitions - FEDERAL

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

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

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

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

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

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

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives 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.

Environmental Records Definitions - FEDERAL

RCRANGR06

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ALTFUELS

Alternative Fueling Stations

VERSION DATE: 05/16/17

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

FEMAUST

FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

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

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.

ICISCLEANERS

Integrated Compliance Information System Drycleaners

VERSION DATE: 09/23/17

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

MRDS

Mineral Resource Data System

VERSION DATE: 03/15/16

Environmental Records Definitions - FEDERAL

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 09/01/17

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

BF Brownfields Management System

VERSION DATE: 11/21/17

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

DNPL Delisted National Priorities List

VERSION DATE: 10/10/17

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

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 10/17/17

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

ODI Open Dump Inventory

VERSION DATE: 06/01/85

Environmental Records Definitions - FEDERAL

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

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

VERSION DATE: 10/17/17

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

SEMS Superfund Enterprise Management System

VERSION DATE: 10/10/17

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: 10/10/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 08/25/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Environmental Records Definitions - FEDERAL

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

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

DOD Department of Defense Sites

VERSION DATE: 12/01/14

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

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

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

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

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

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 10/17/17

Environmental Records Definitions - FEDERAL

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

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.

During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 10/10/17

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

PNPL Proposed National Priorities List

VERSION DATE: 10/10/17

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: 10/17/17

The Resource Conservation and Recovery Act (RCRA) gives 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.

Environmental Records Definitions - FEDERAL

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 10/17/17

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

RODS

Record of Decision System

VERSION DATE: 10/10/17

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.

Environmental Records Definitions - STATE (TX)

GWCC Groundwater Contamination Cases

VERSION DATE: 08/26/16

This report contains a listing of groundwater contamination cases which were documented for the 2013 calendar year. Texas Water Code, Section 26.406 requires the annual report to describe the current status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The agencies reporting these contamination cases include the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

HISTGWCC Historic Groundwater Contamination Cases

VERSION DATE: 12/31/12

This historic report contains all agency groundwater contamination cases documented from 1994 to 2012. The agencies that reported these contamination cases included the Texas Commission on Environmental Quality, Railroad Commission of Texas, Texas Alliance of Groundwater Districts, and Department of State Health Services.

LIENS TCEQ Liens

VERSION DATE: 06/16/17

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

MSD Municipal Setting Designations

VERSION DATE: 11/02/17

The Texas Commission on Environmental Quality 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.

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.

Environmental Records Definitions - STATE (TX)

SIEC01 State Institutional/Engineering Control Sites

VERSION DATE: 12/06/17

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: 04/13/17

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

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.

DCR Dry Cleaner Registration Database

VERSION DATE: 08/31/17

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

IHW Industrial and Hazardous Waste Sites

VERSION DATE: 11/09/17

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

Environmental Records Definitions - STATE (TX)

PIHW Permitted Industrial Hazardous Waste Sites

VERSION DATE: 07/03/17

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: 10/04/17

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

APAR Affected Property Assessment Reports

VERSION DATE: 12/18/17

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: 09/20/17

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

Environmental Records Definitions - STATE (TX)

and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

DCRPS Dry Cleaner Remediation Program Sites

VERSION DATE: 09/01/17

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

IOP Innocent Owner / Operator Database

VERSION DATE: 11/20/17

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

LPST Leaking Petroleum Storage Tanks

VERSION DATE: 10/09/17

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

MSWLF Municipal Solid Waste Landfill Sites

VERSION DATE: 12/08/17

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

RRCVCP Railroad Commission VCP and Brownfield Sites

VERSION DATE: 10/25/17

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.

Environmental Records Definitions - STATE (TX)

RWS Radioactive Waste Sites

VERSION DATE: 07/11/06

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

STCV Salt Caverns for Petroleum Storage

VERSION DATE: 09/01/06

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

VCP Voluntary Cleanup Program Sites

VERSION DATE: 12/06/17

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.

IHWCA Industrial and Hazardous Waste Corrective Action Sites

VERSION DATE: 10/16/17

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)

SF State Superfund Sites

VERSION DATE: 09/23/16

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 registry includes any recent developments and the anticipated action for these sites.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/24/17

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

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/24/17

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

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

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

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

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

Exhibit C

Historical Aerial Photographs



On time. On target. In touch.™

Historical Aerials Package

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219580

Project #: 18L0013

Date: 1/18/2018

Target Property Summary

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio, Texas 78374

USGS Quadrangle: **GREGORY**

Target Property Geometry: Area

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

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Aerial Research Summary

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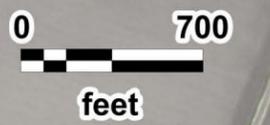
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Aerial Research Summary

<u>Date</u>	<u>Source</u>	<u>Scale</u>	<u>Frame</u>
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CCREDC McKamey Site Phase I ESA
USDA
2016



GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2016





0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2016

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2016

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2016

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2014

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2014

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2014

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2014

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2014

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2012

GeoSearch



0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2012

GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2012





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CCREDC McKamey Site Phase I ESA
USDA
2012

GeoSearch





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CCREDC McKamey Site Phase I ESA
USDA
2012

GeoSearch



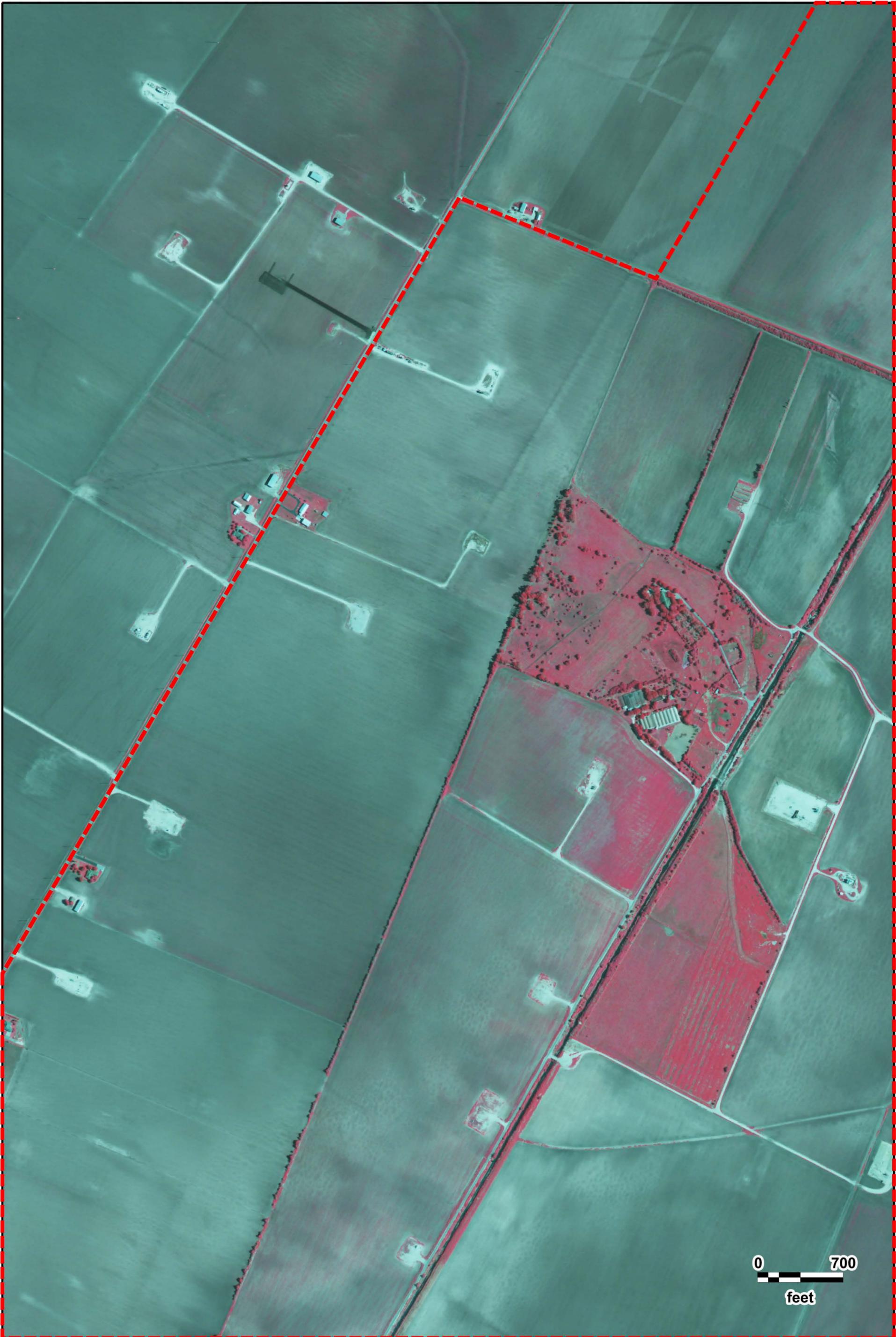


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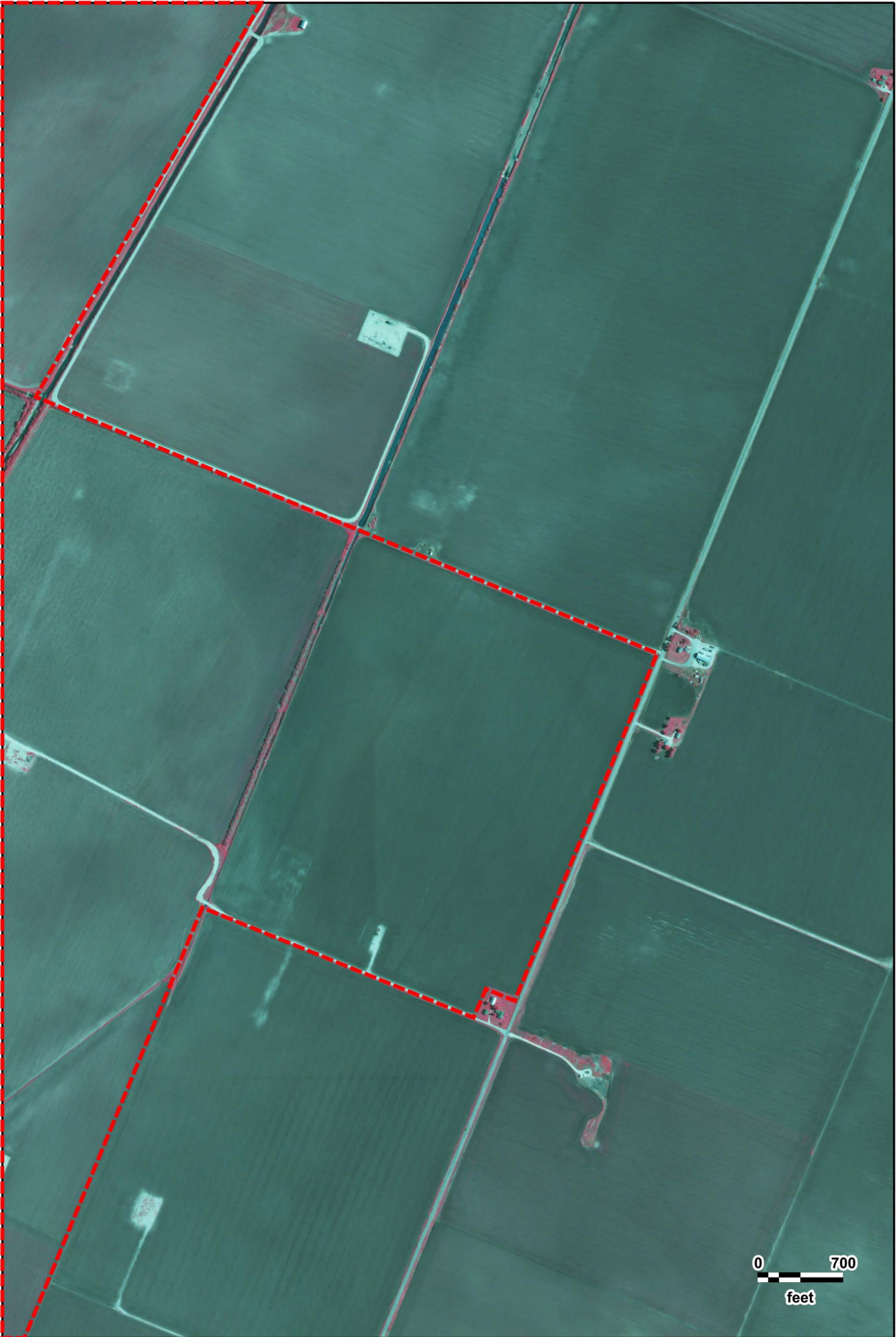
CCREDC McKamey Site Phase I ESA
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GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2010

GeoSearch



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CCREDC McKamey Site Phase I ESA
USDA
2010

GeoSearch



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CCREDC McKamey Site Phase I ESA
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GeoSearch





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GeoSearch





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CCREDC McKamey Site Phase I ESA
USDA
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GeoSearch

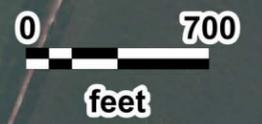


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feet

CCREDC McKamey Site Phase I ESA
USDA
2008

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2008





0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2008

GeoSearch



0 700
feet



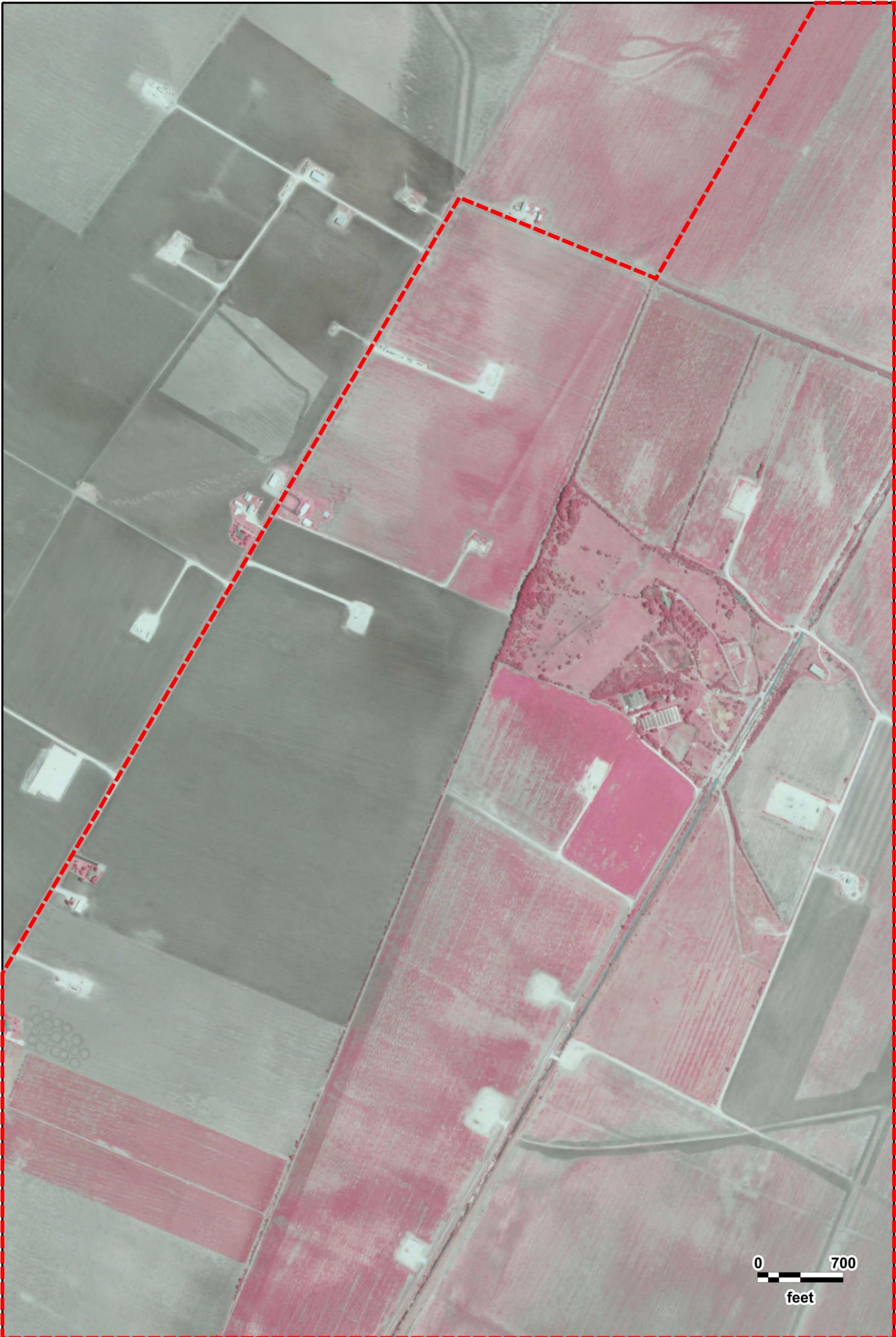
CCREDC McKamey Site Phase I ESA
USDA
2008

GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2006





0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2006

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2006

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2006



GeoSearch



0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2006

GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2005

GeoSearch

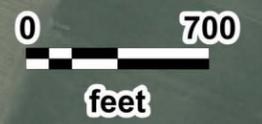


0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2005

GeoSearch





CCREDC McKamey Site Phase I ESA
USDA
2005





0 700
feet



CCREDC McKamey Site Phase I ESA
USDA
2005

GeoSearch

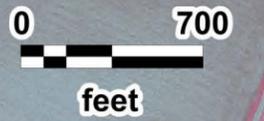


0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2005

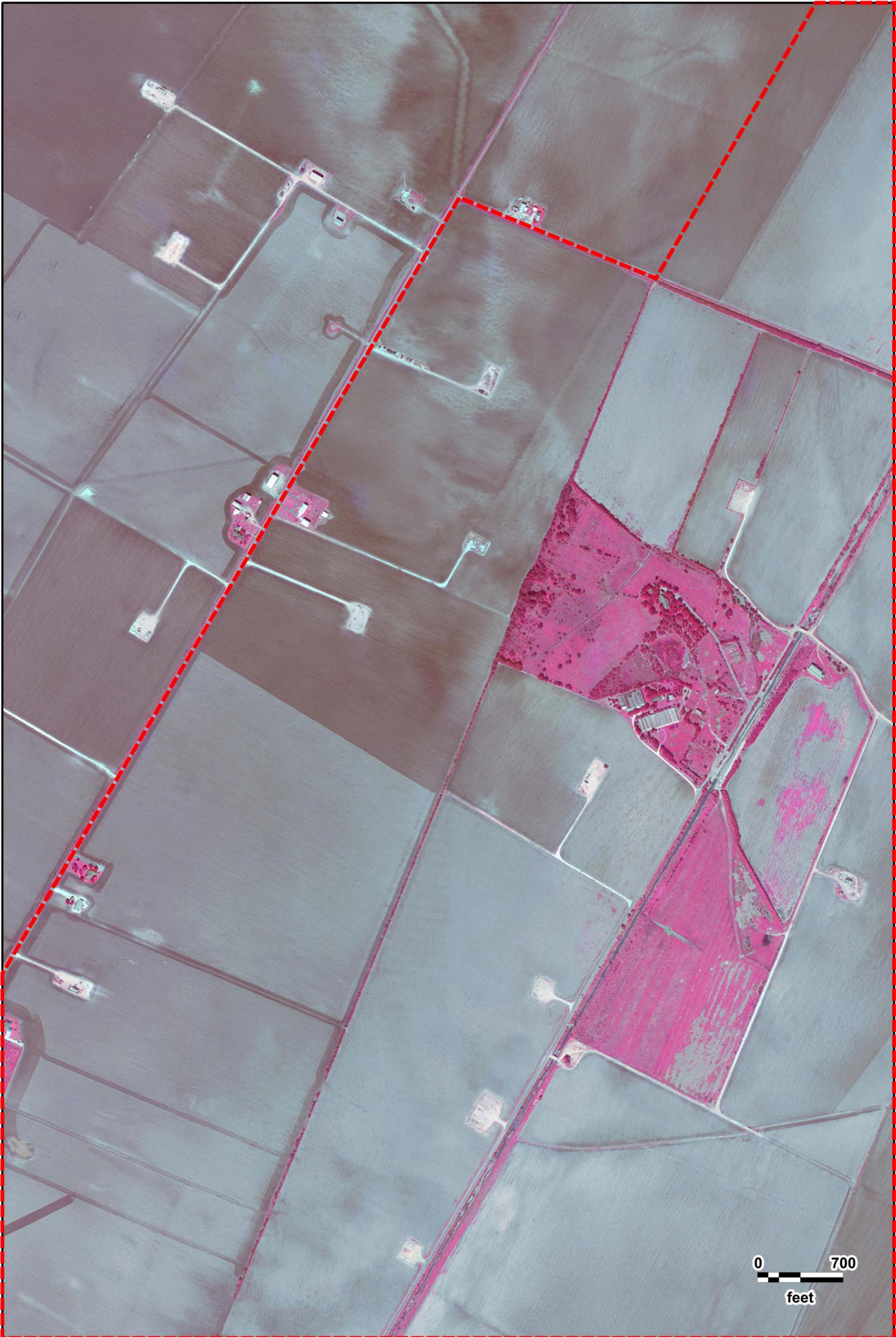
GeoSearch





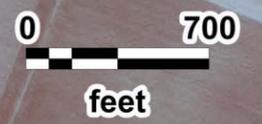
CCREDC McKamey Site Phase I ESA
USDA
2004





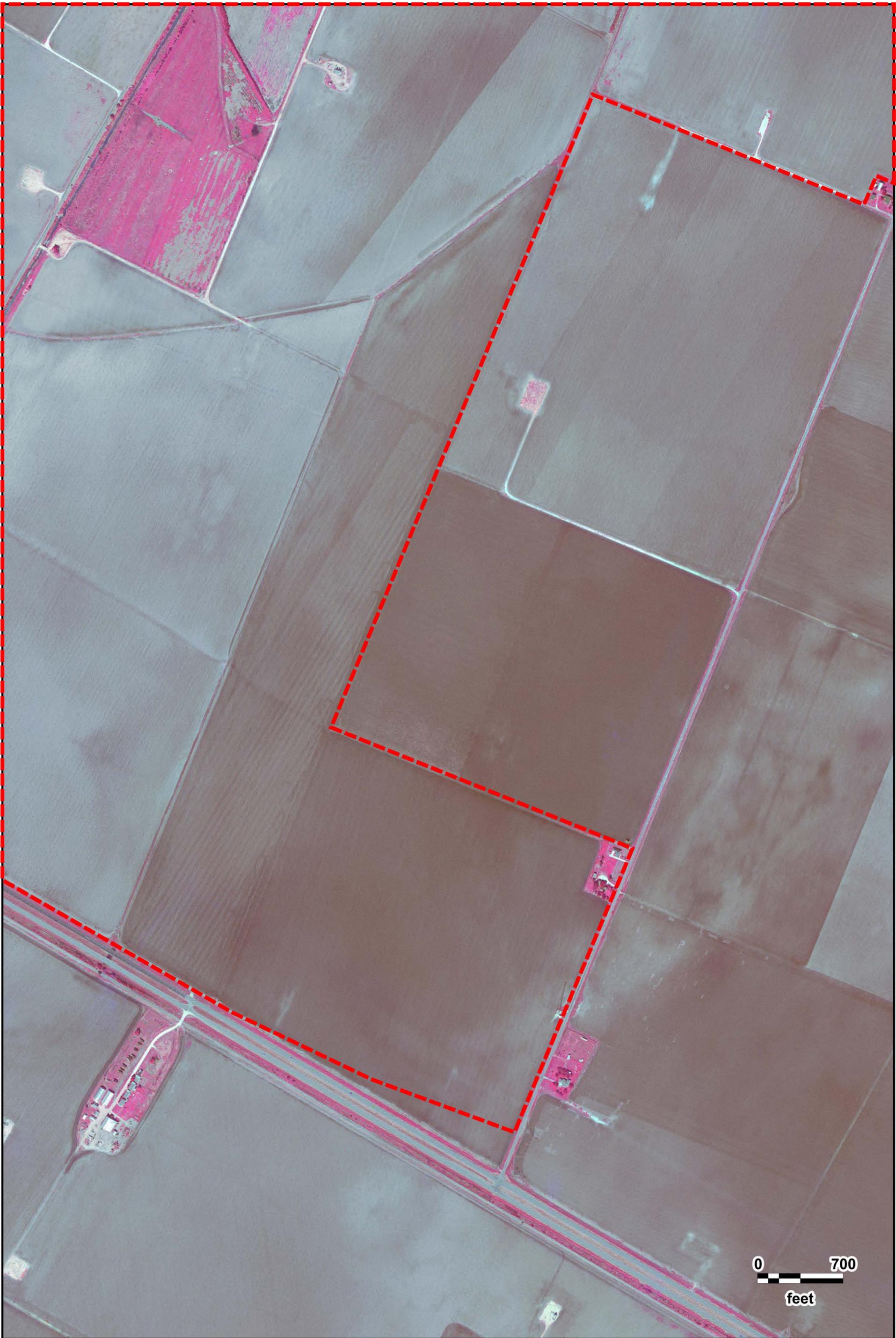
CCREDC McKamey Site Phase I ESA
USDA
2004

GeoSearch



CCREDC McKamey Site Phase I ESA
USDA
2004

GeoSearch

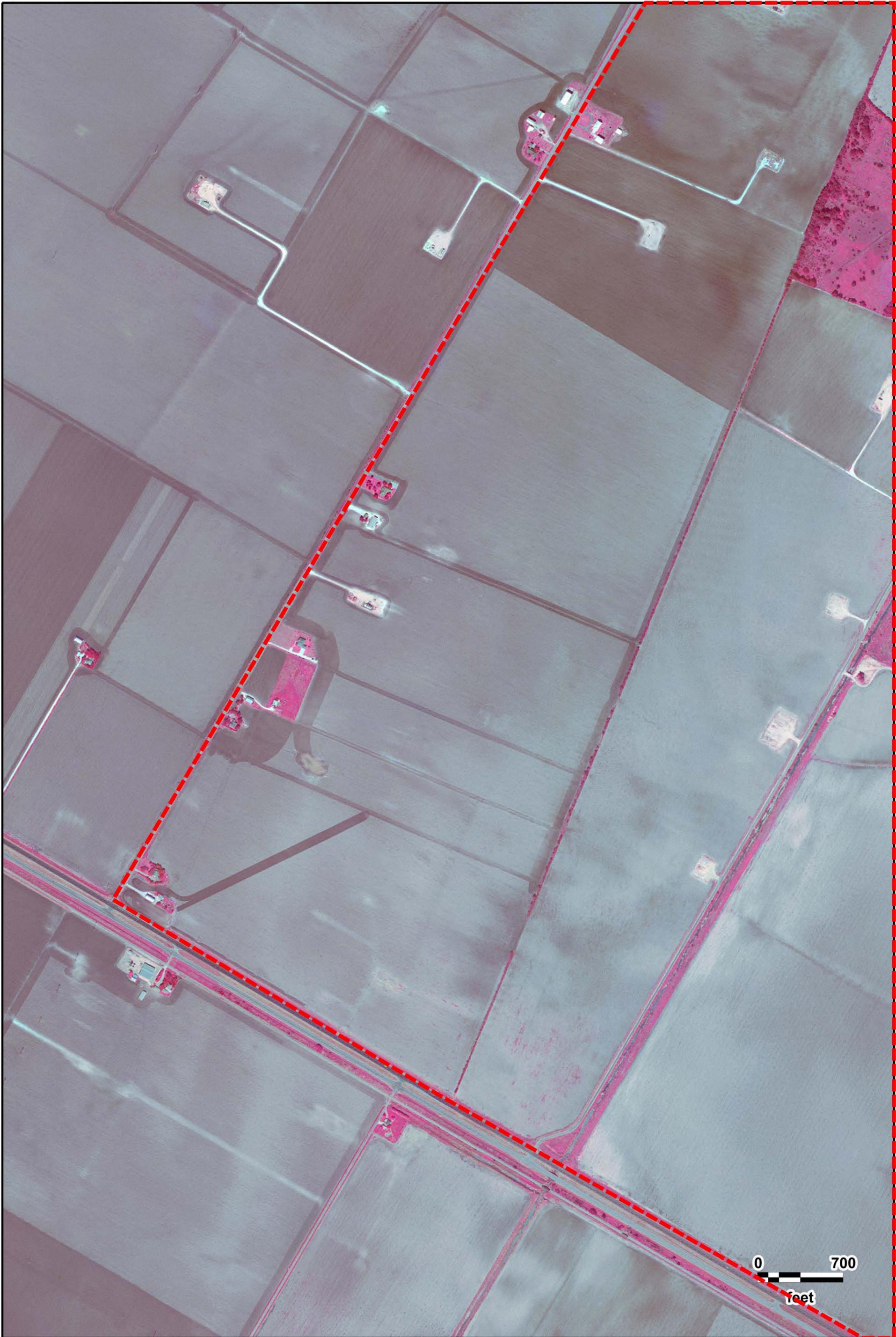


0 700
feet

CCREDC McKamey Site Phase I ESA
USDA
2004

GeoSearch

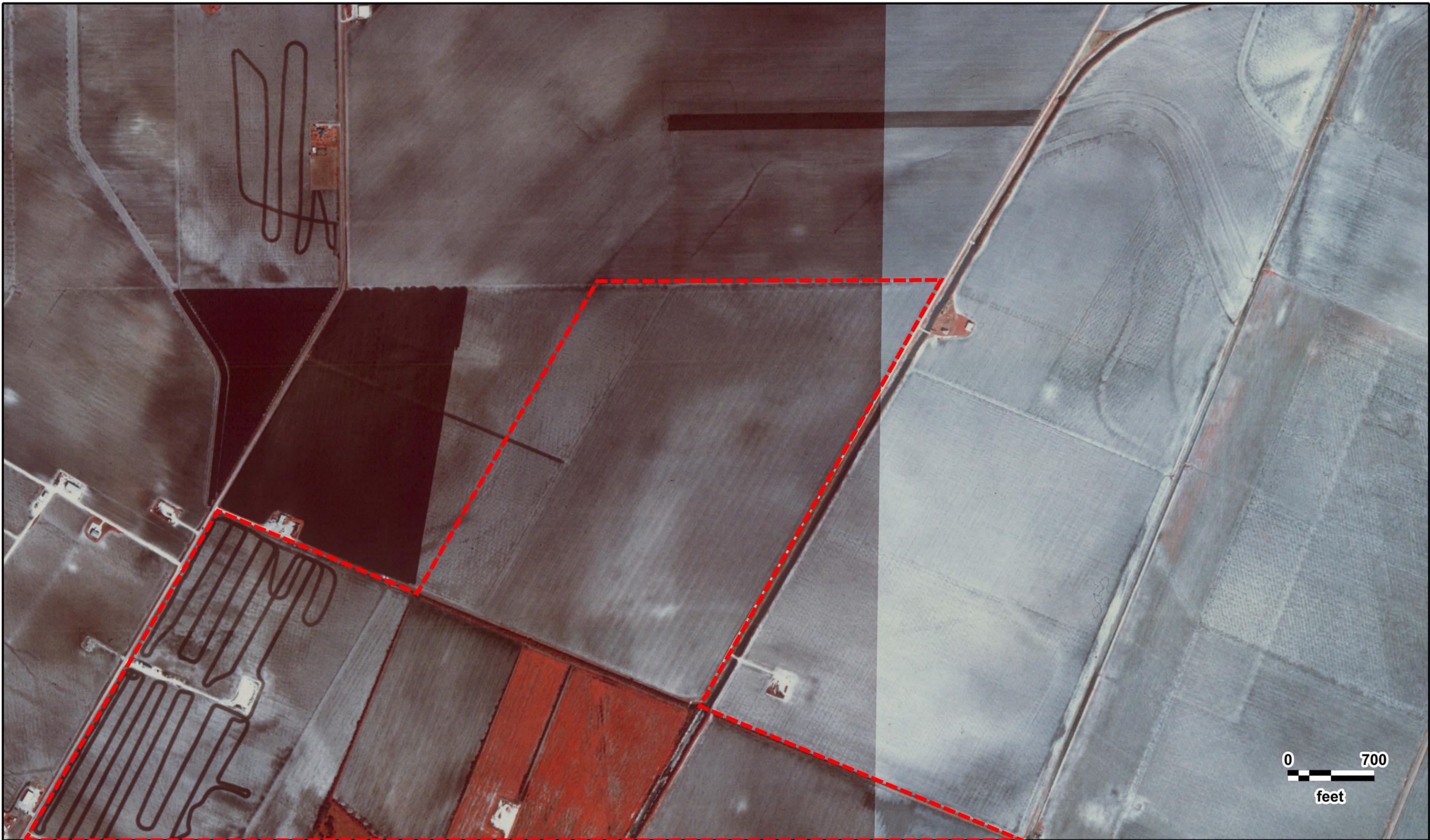




CCREDC McKamey Site Phase I ESA
USDA
2004

GeoSearch



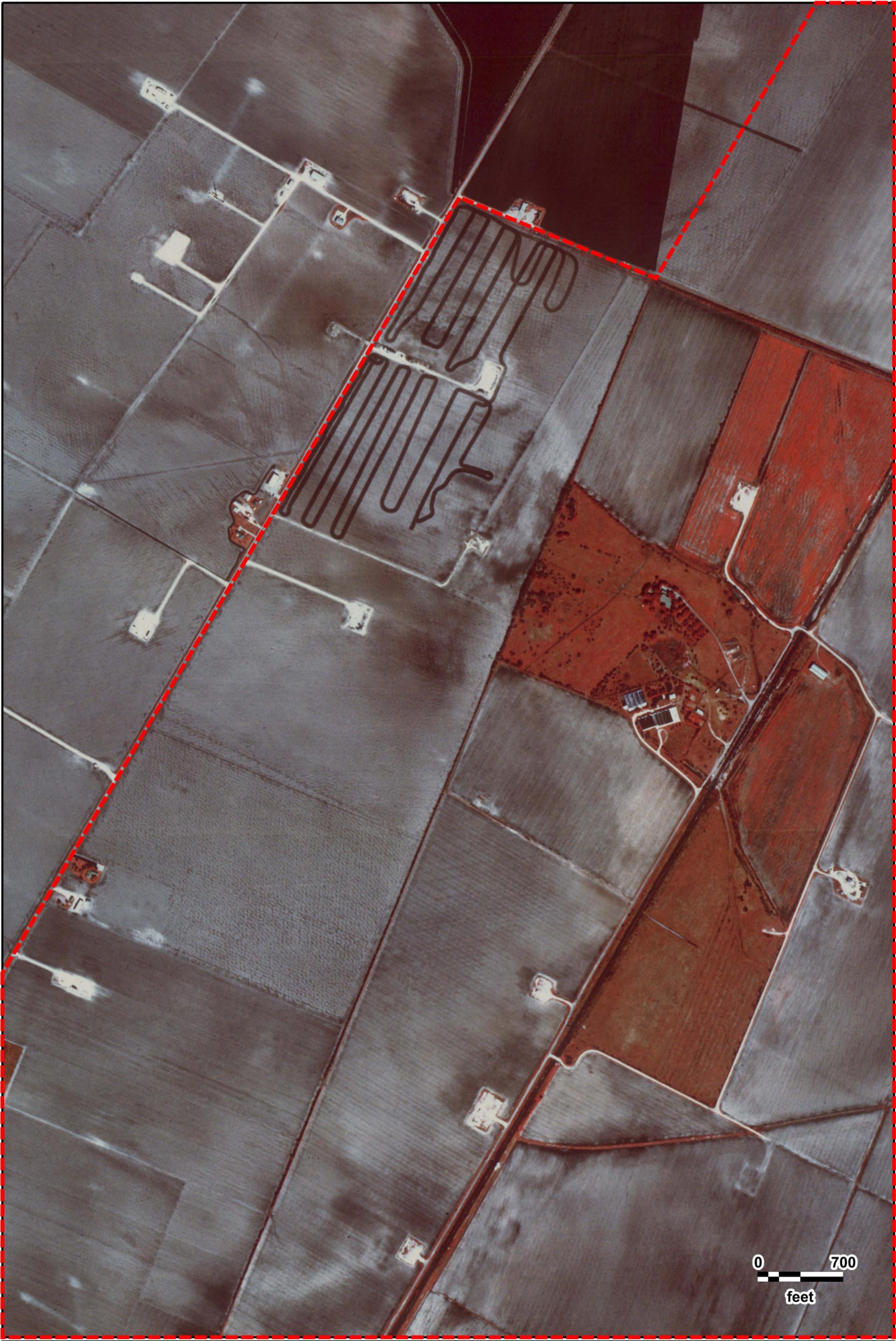


0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
01/23/1995

GeoSearch

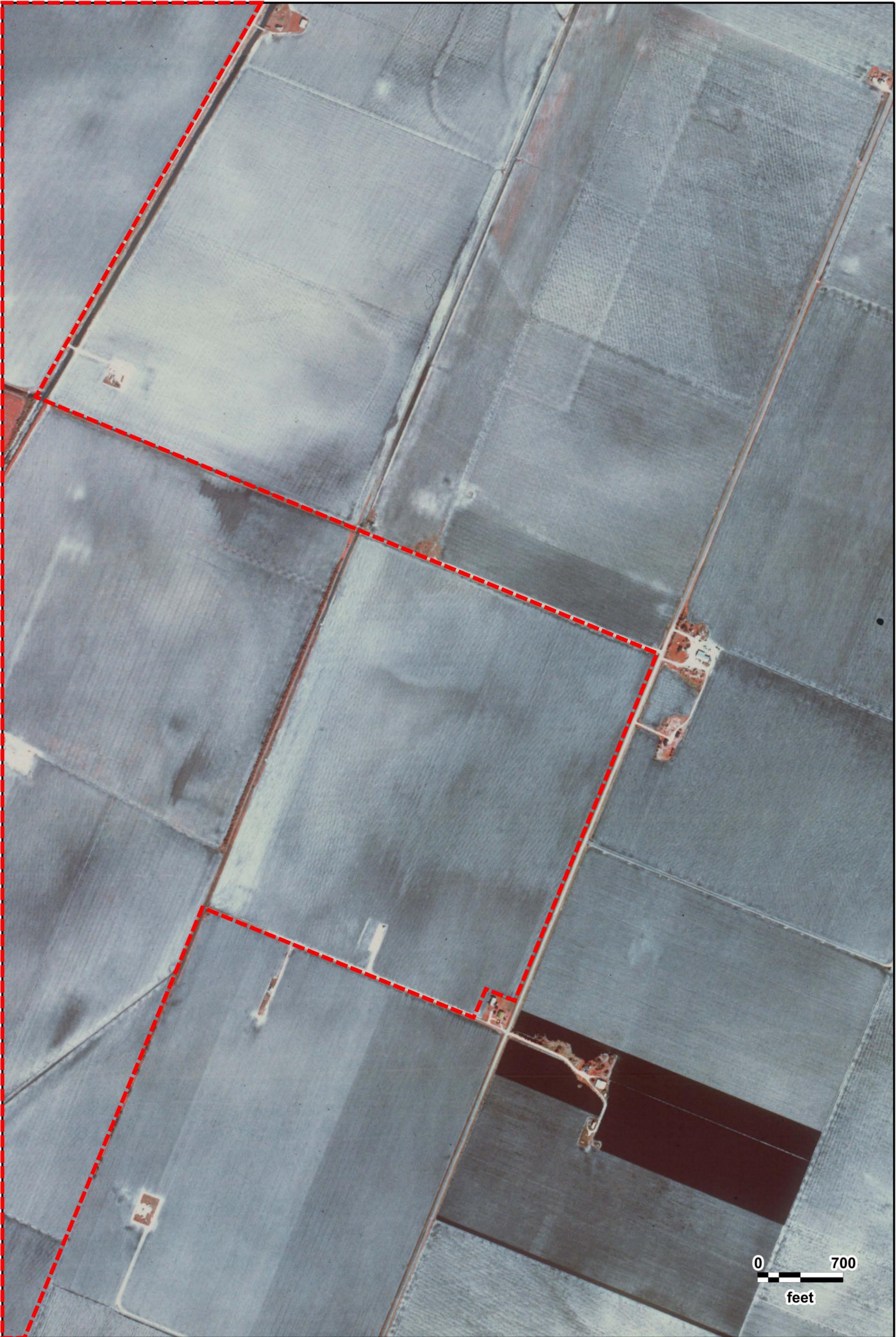


0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
01/23/1995

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
01/23/1995

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
01/23/1995

GeoSearch





0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
01/23/1995

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
10/27/1981

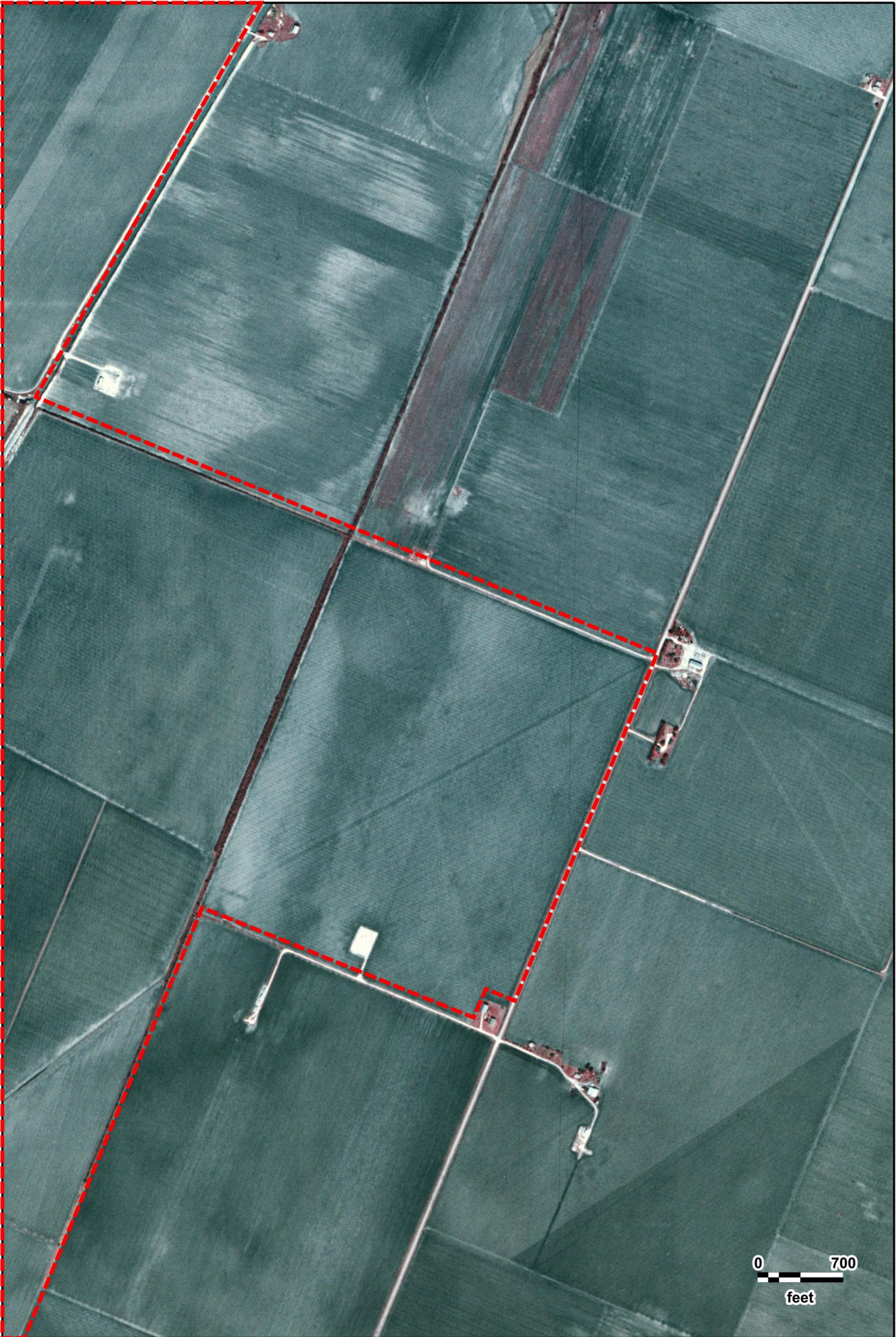
GeoSearch



CCREDC McKamey Site Phase I ESA
USGS
10/27/1981

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
10/27/1981

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
10/27/1981

GeoSearch





CCREDC McKamey Site Phase I ESA
USGS
10/27/1981

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
12/22/1972

GeoSearch

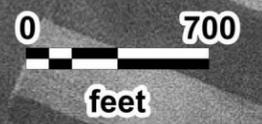


0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
12/22/1972

GeoSearch





CCREDC McKamey Site Phase I ESA
USGS
12/22/1972





0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
12/22/1972

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
12/22/1972

GeoSearch



0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
02/26/1968

GeoSearch

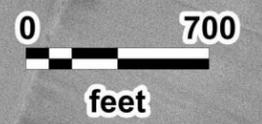


0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
02/26/1968

GeoSearch



CCREDC McKamey Site Phase I ESA
USGS
02/26/1968

GeoSearch



0 700
feet

CCREDC McKamey Site Phase I ESA
USGS
02/26/1968

GeoSearch





0 700
feet



CCREDC McKamey Site Phase I ESA
USGS
02/26/1968

GeoSearch

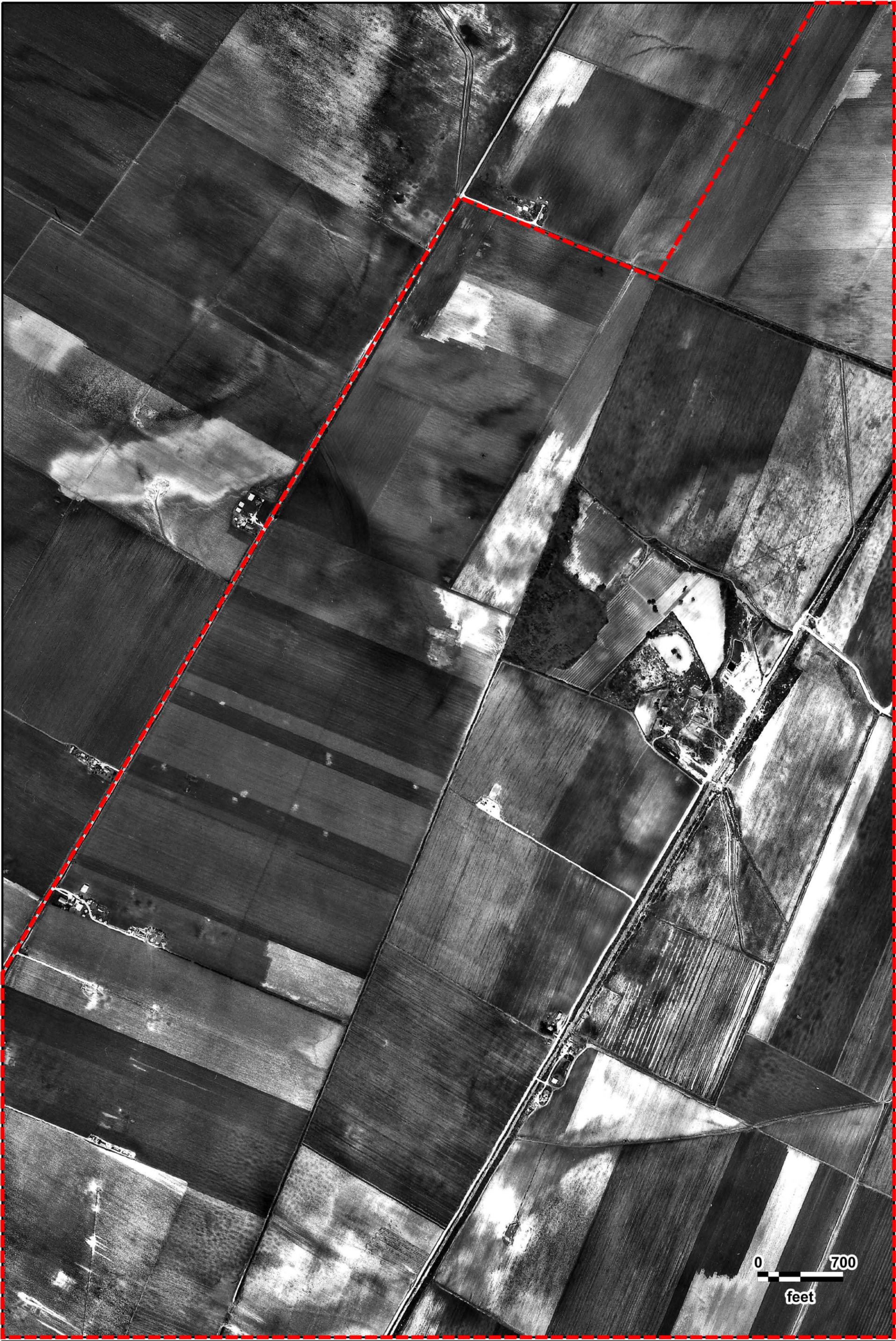


0 700
feet



CCREDC McKamey Site Phase I ESA
ASCS
03/08/1961

GeoSearch

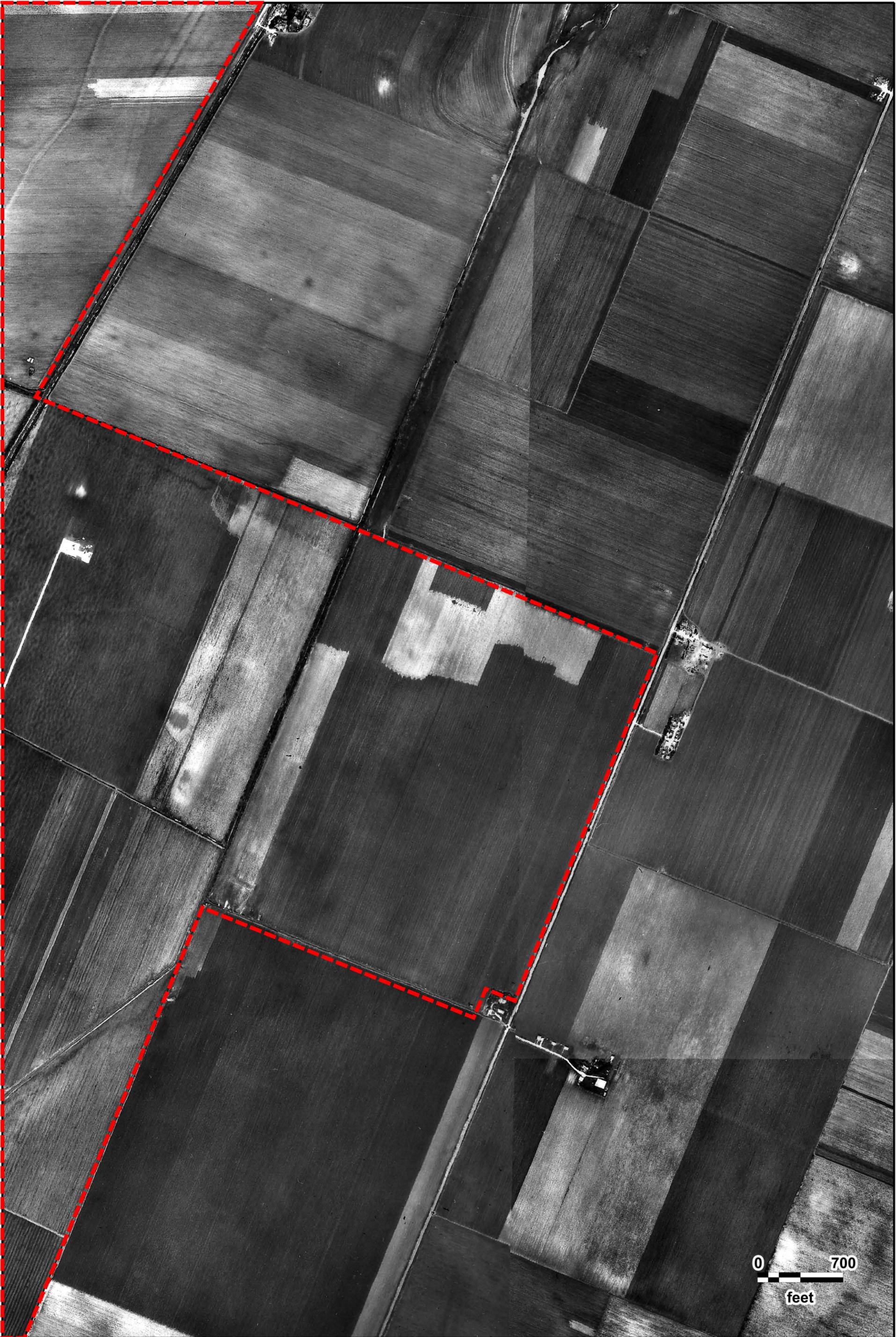


0 700
feet



CCREDC McKamey Site Phase I ESA
ASCS
03/08/1961

GeoSearch

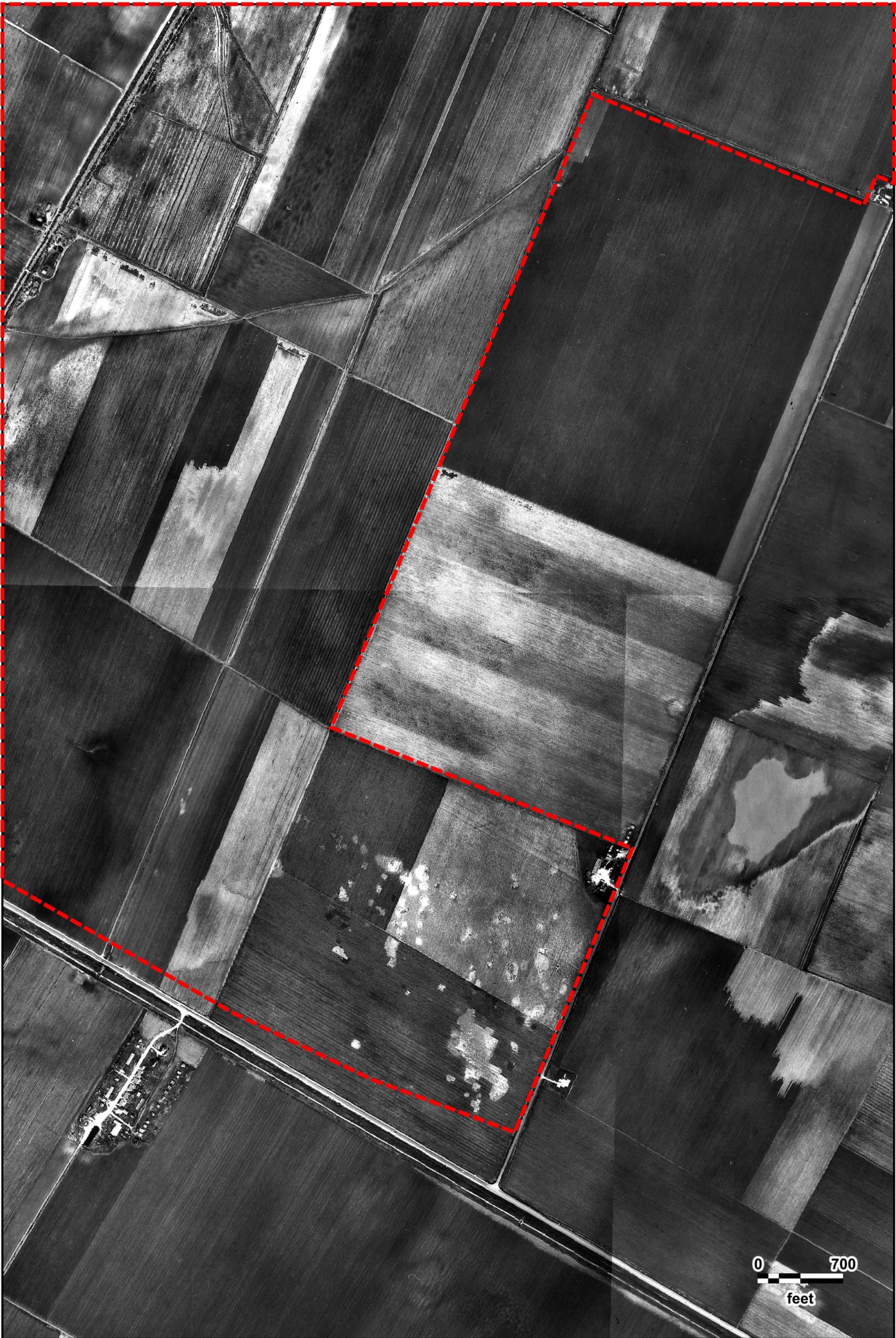


0 700
feet



CCREDC McKamey Site Phase I ESA
ASCS
03/08/1961

GeoSearch

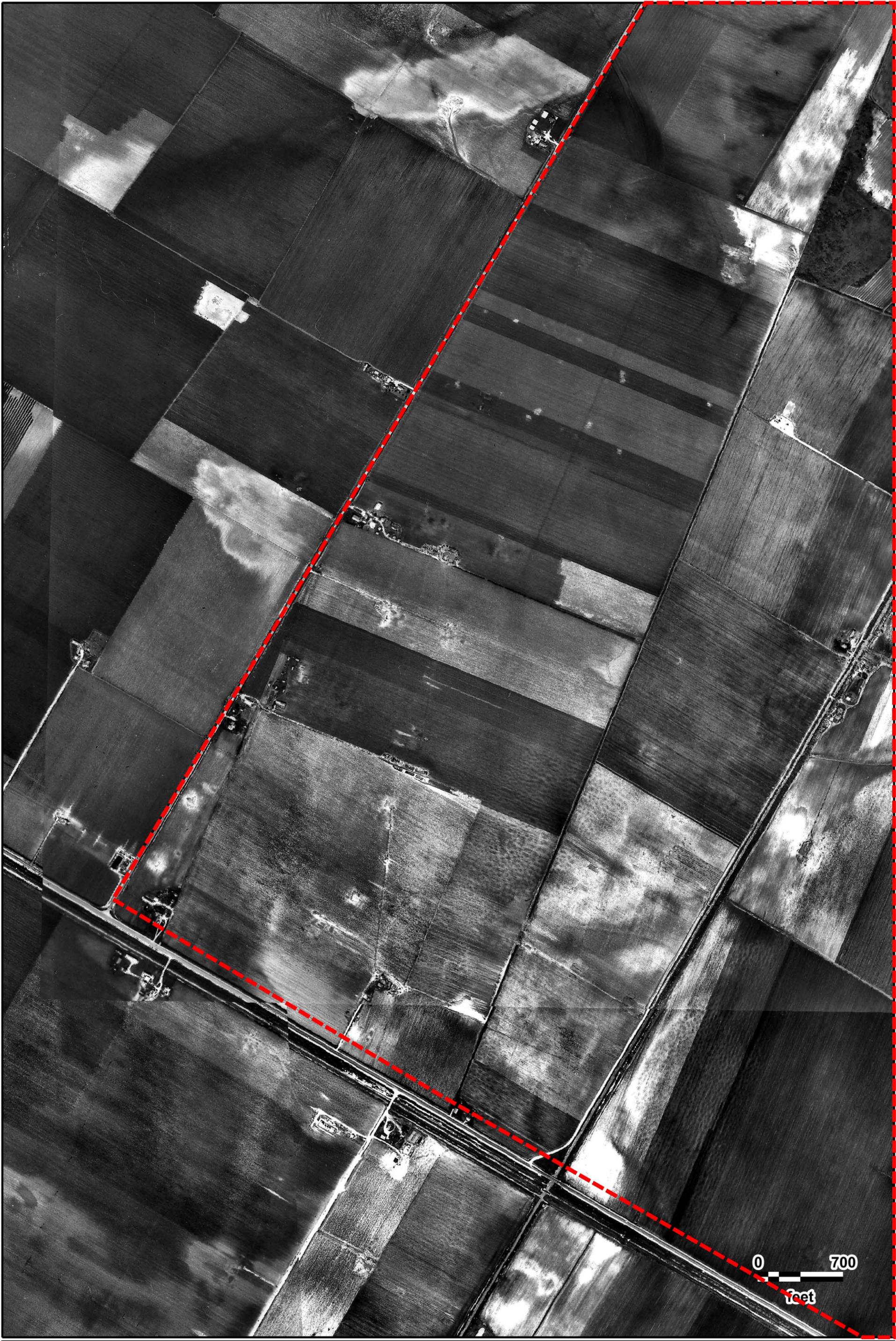


0 700
feet

CCREDC McKamey Site Phase I ESA
ASCS
03/08/1961

GeoSearch



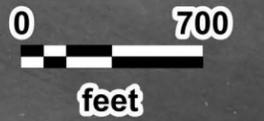


0 700
feet



CCREDC McKamey Site Phase I ESA
ASCS
03/08/1961

GeoSearch



CCREDC McKamey Site Phase I ESA
ASCS
03/19/1950



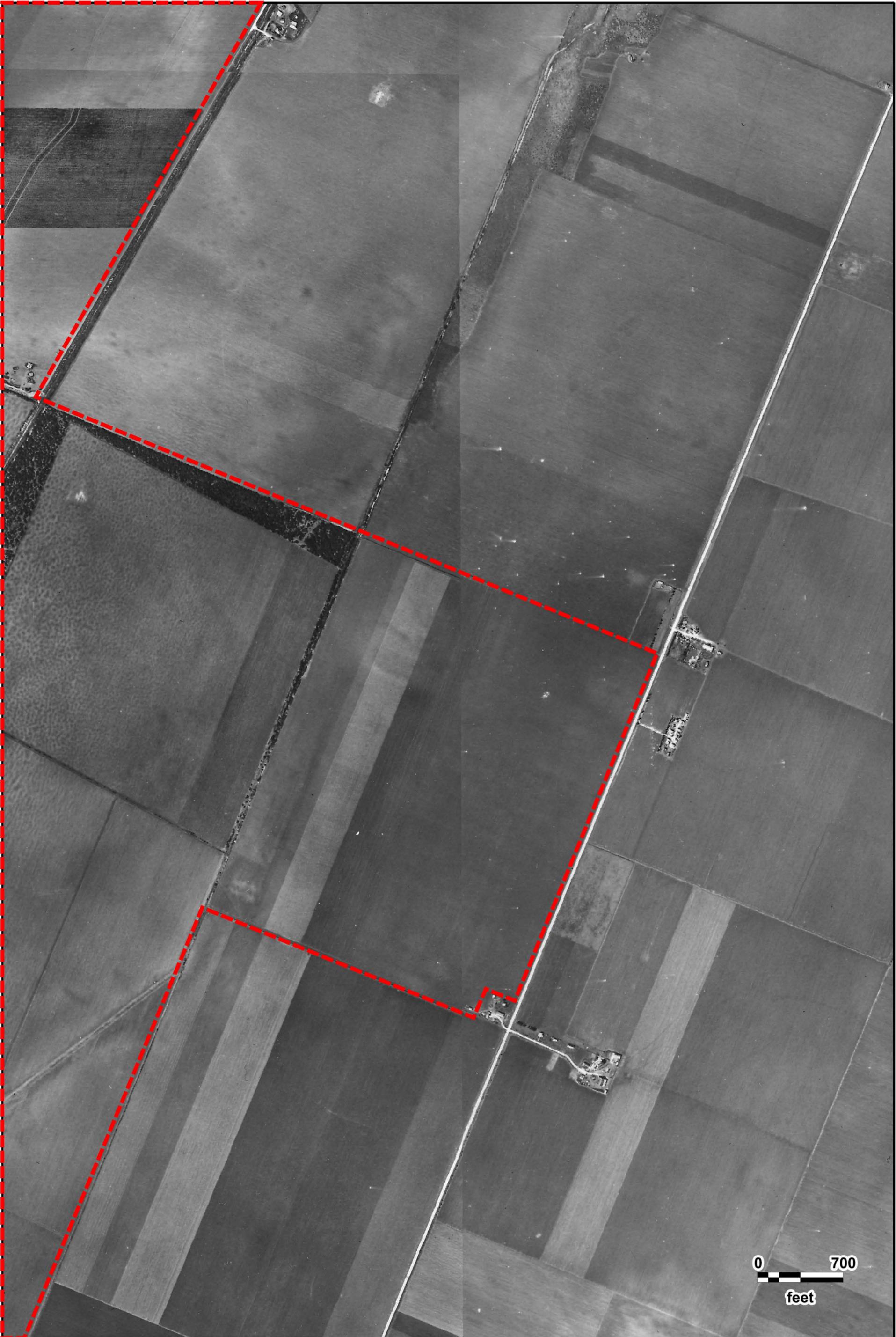


0 700
feet

CCREDC McKamey Site Phase I ESA
ASCS
03/19/1950

GeoSearch



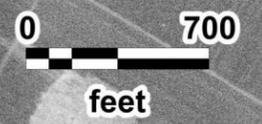


0 700
feet

CCREDC McKamey Site Phase I ESA
ASCS
03/19/1950

GeoSearch





CCREDC McKamey Site Phase I ESA
ASCS
03/19/1950





CCREDC McKamey Site Phase I ESA
ASCS
03/19/1950

GeoSearch



Exhibit D

Historical Topographic Maps



On time. On target. In touch.™

Historical Topographic Maps

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219575

Project #: 18L0013

Date: 1/18/2018

Target Property Summary

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio, Texas 78374

USGS Quadrangle: **GREGORY**

Target Property Geometry: Area

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

(-97.341603041, 27.949648824), (-97.325413227, 27.973936726), (-97.320435047, 27.972126930),
(-97.315928936, 27.978986937), (-97.307313681, 27.979015362), (-97.313354015, 27.969644334),
(-97.297604084, 27.963882975), (-97.301219702, 27.956074326), (-97.301949263, 27.956339677),
(-97.302260399, 27.955695251), (-97.309137583, 27.958168691), (-97.315768003, 27.943943265),
(-97.308129072, 27.941223067), (-97.311122417, 27.934844075), (-97.314727306, 27.936028909),
(-97.318267822, 27.937535999), (-97.333427668, 27.945279644)

Topographic Map Summary

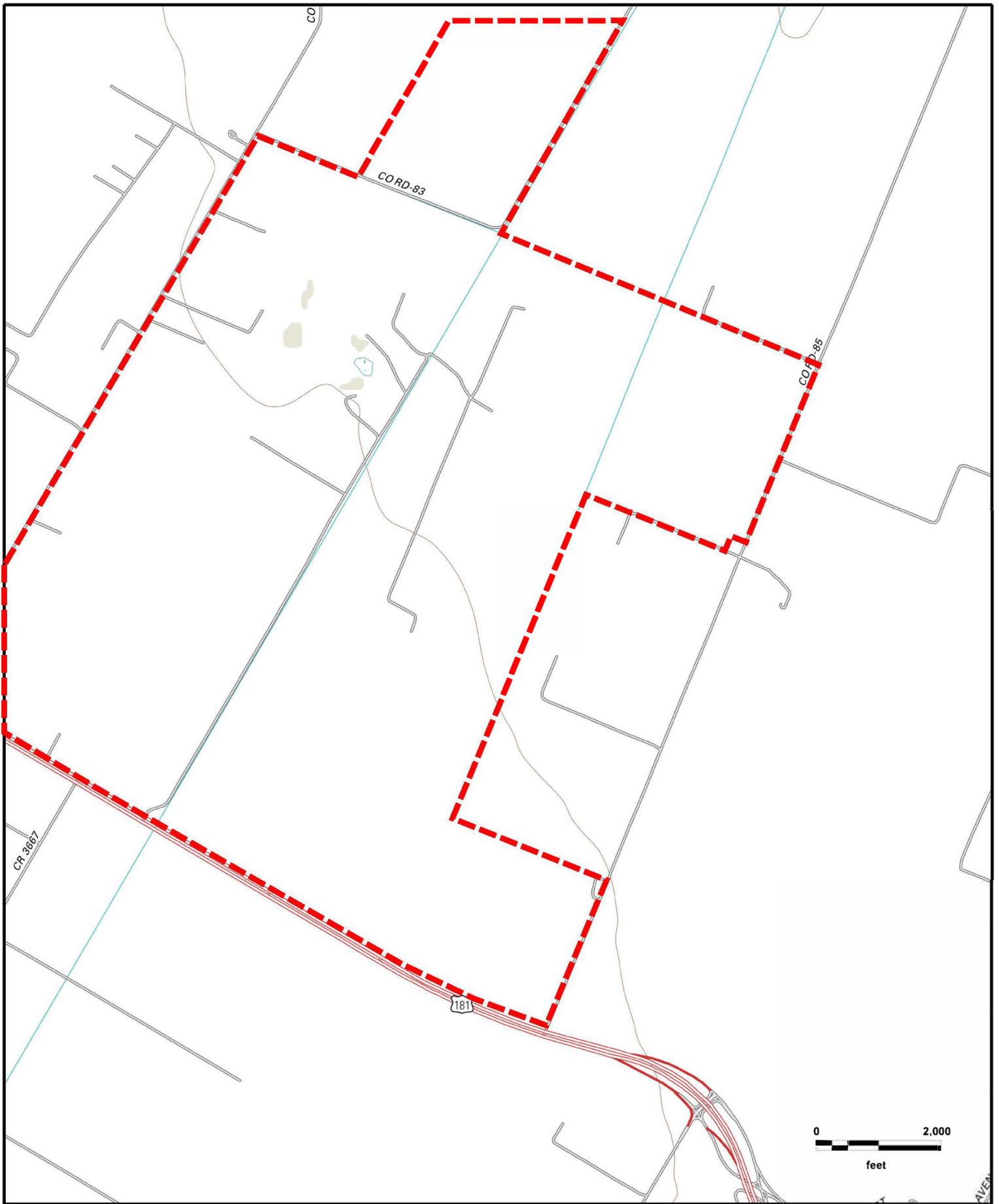
<u>Date</u>	<u>Quadrangle</u>	<u>Scale</u>
2013	Gregory, TX	1" = 2000'
2013	Gregory, TX	1" = 2000'
1969 PHOTOREVISED 1975	Gregory, TX	1" = 2000'
1969 PHOTOREVISED 1975	Gregory, TX	1" = 2000'
1969	Gregory, TX	1" = 2000'
1969	Gregory, TX	1" = 2000'
1951	Corpus Christi, TX	1" = 5208'
1925	Corpus Christi, TX	1" = 5208'
1920	Corpus Christi, TX	1" = 10420'

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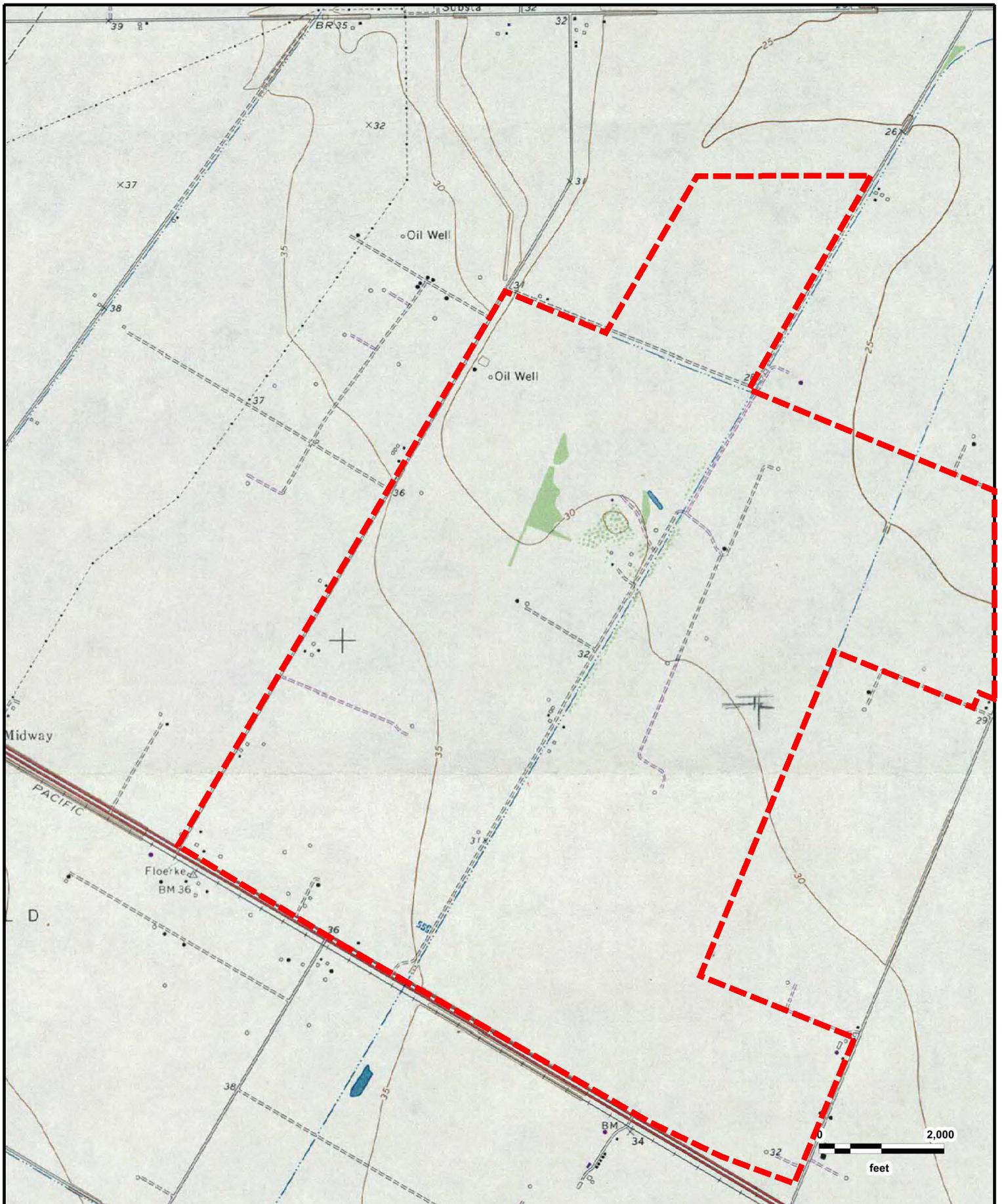
CCREDC McKamey Site Phase I ESA
Gregory, TX (2013)





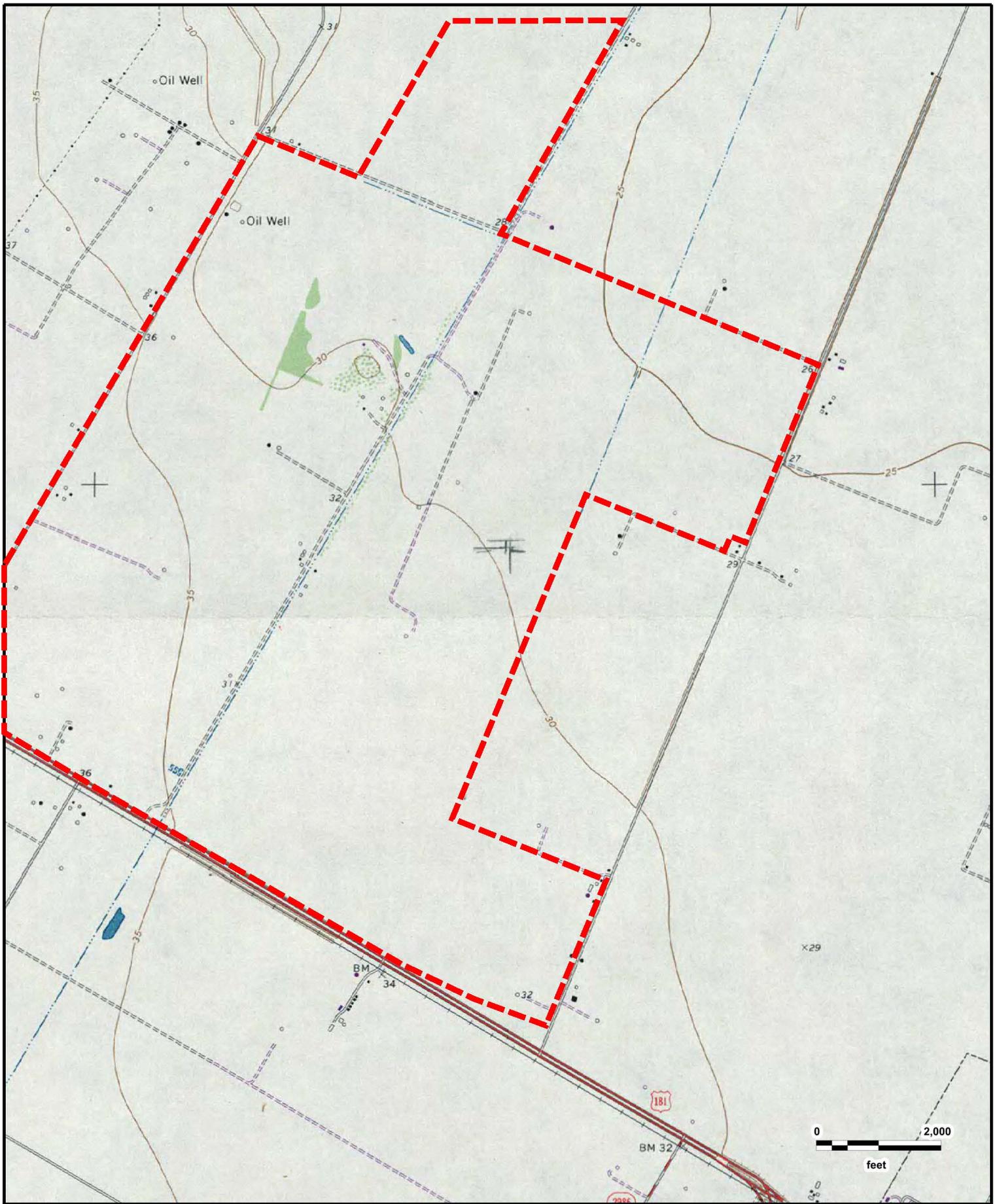
CCREDC McKamey Site Phase I ESA
Gregory, TX (2013)

GeoSearch



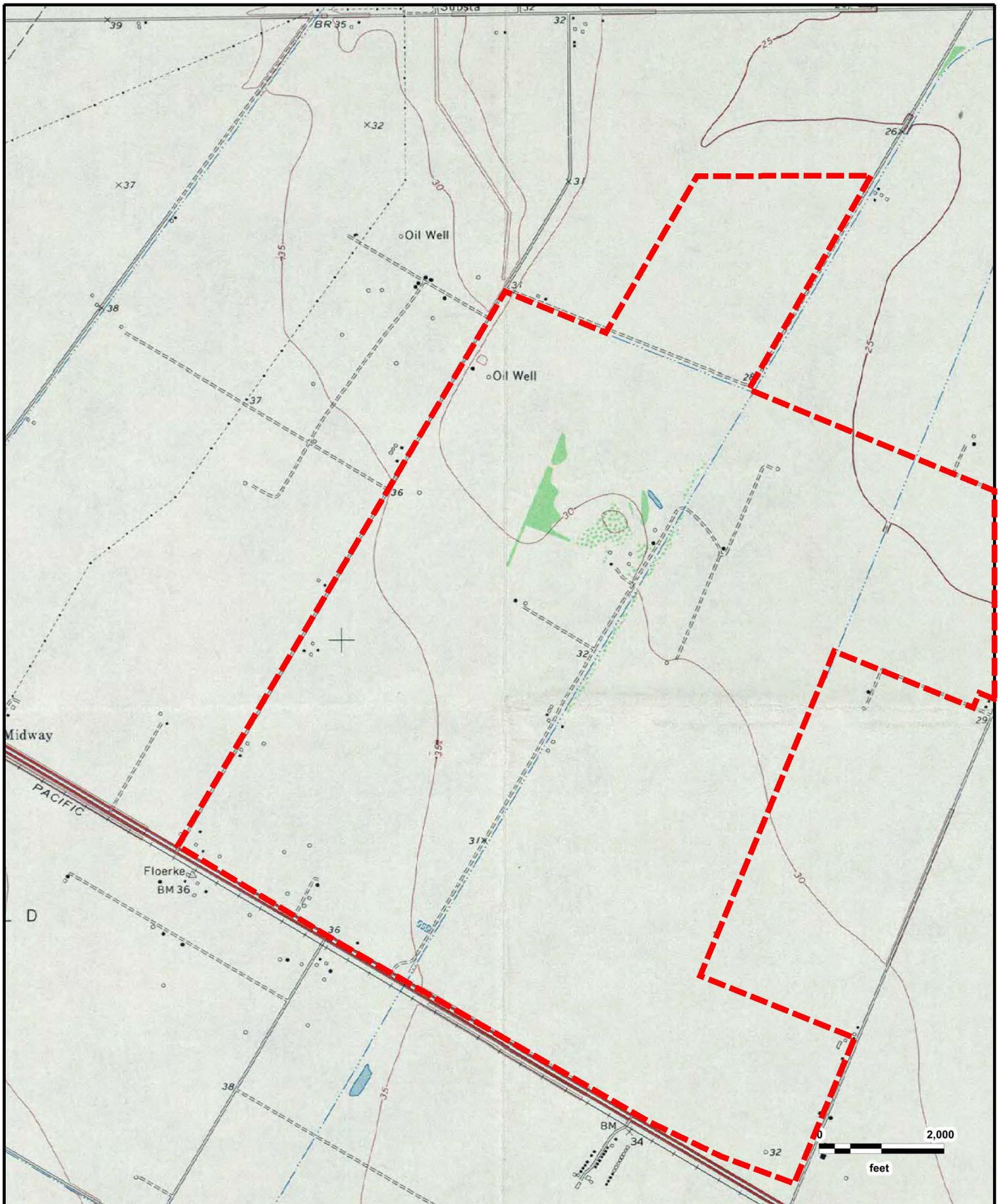
CCREDC McKamey Site Phase I ESA
Gregory, TX (1975)

GeoSearch



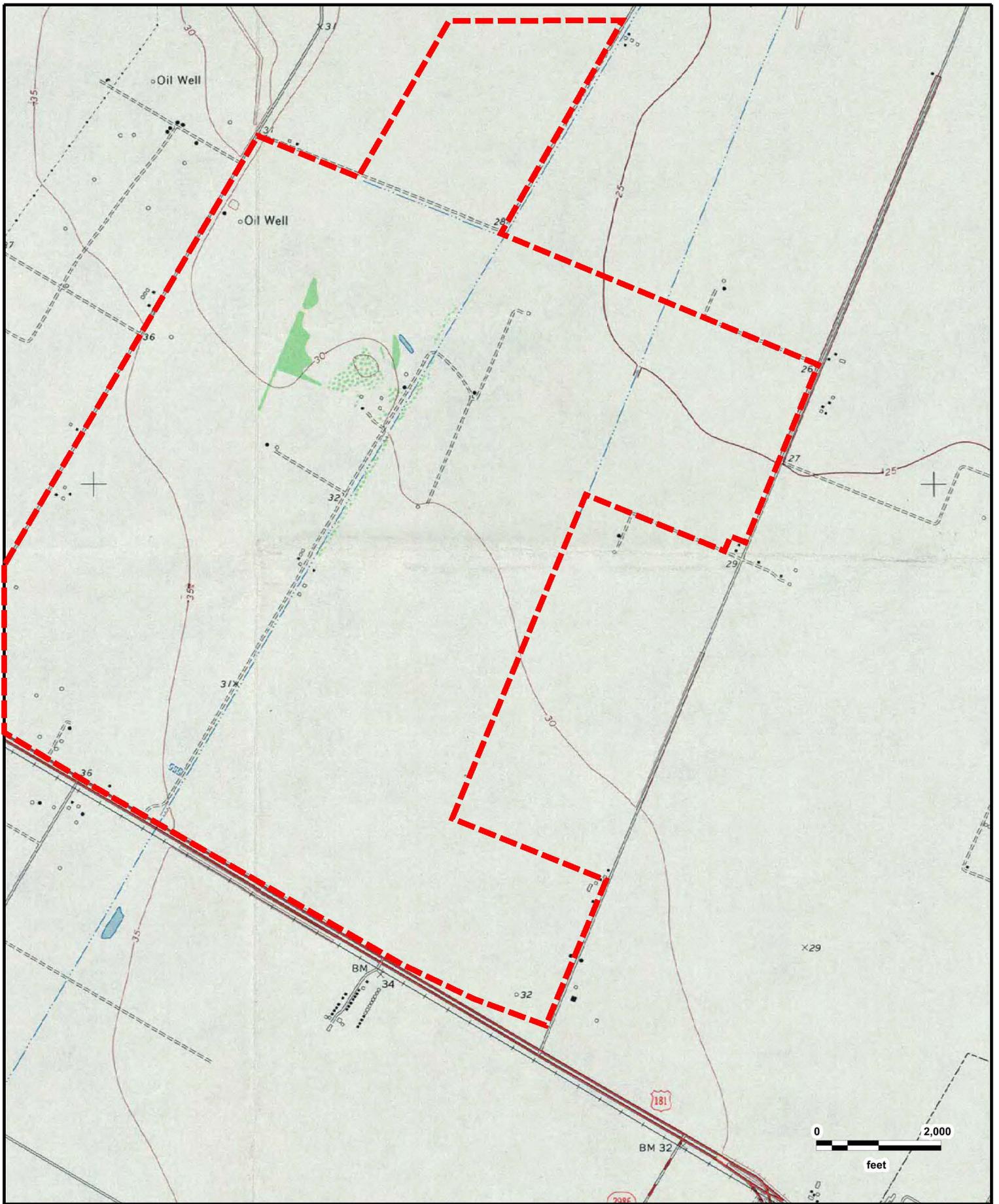
CCREDC McKamey Site Phase I ESA
Gregory, TX (1975)

GeoSearch



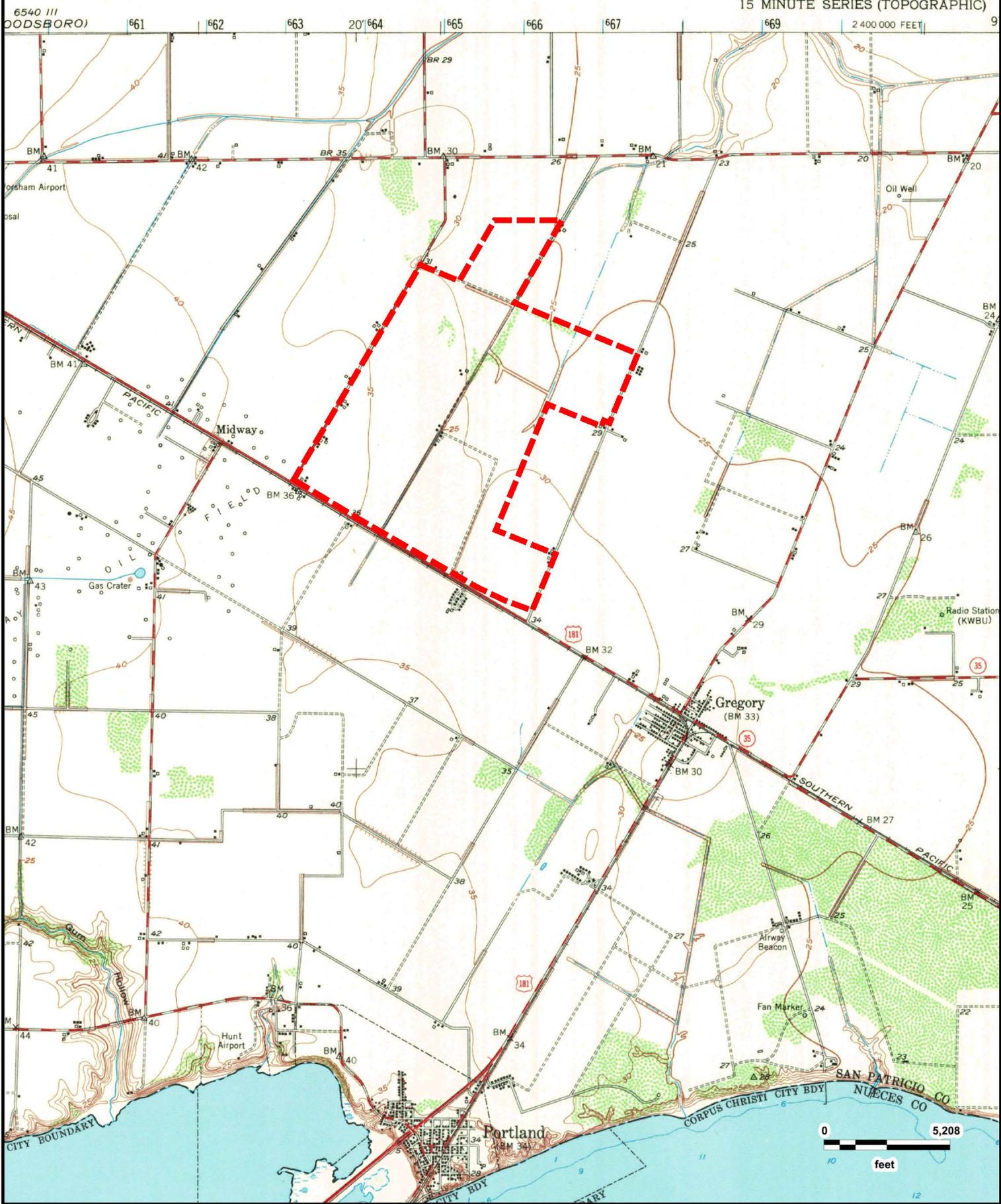
CCREDC McKamey Site Phase I ESA
Gregory, TX (1969)

GeoSearch



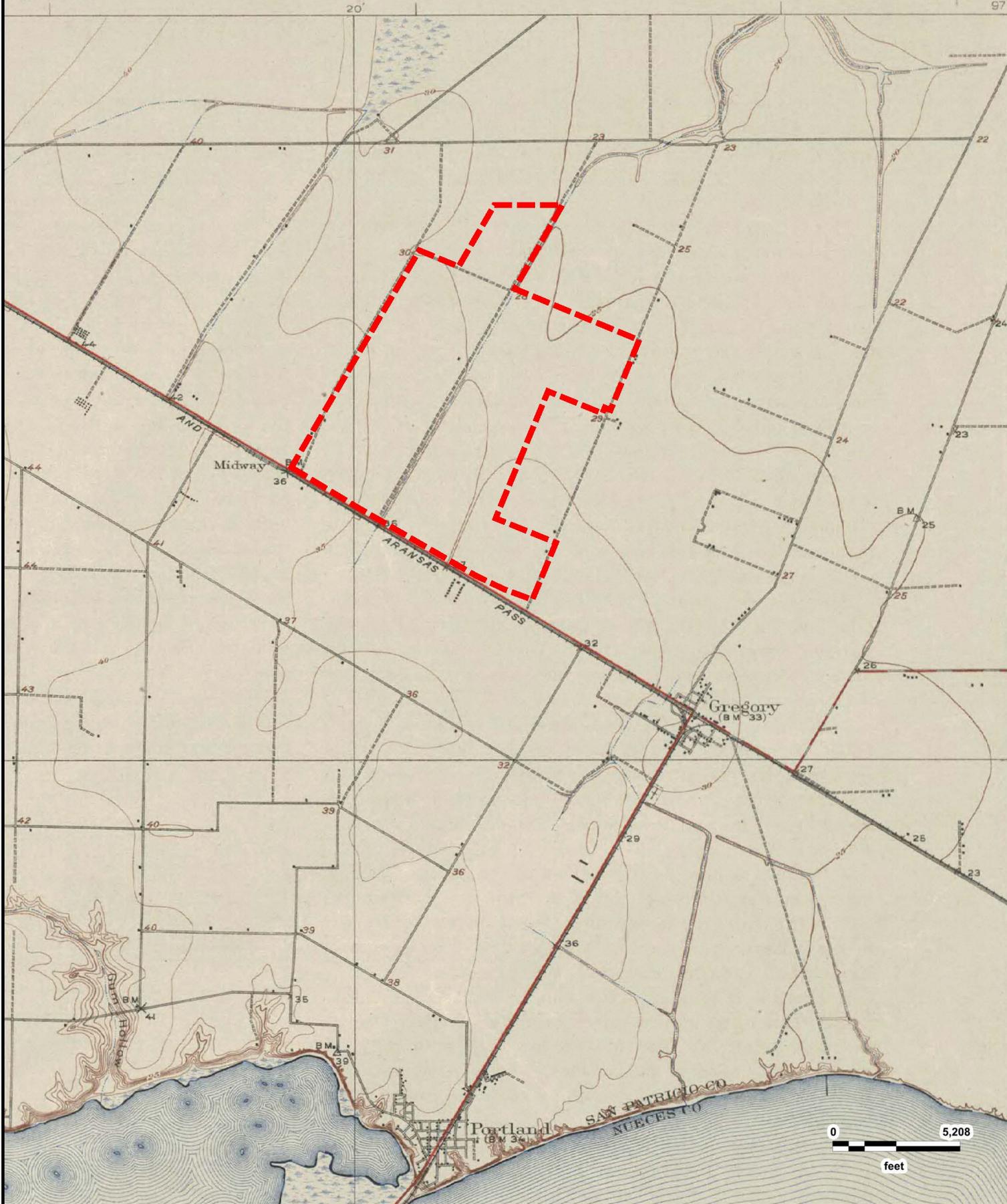
CCREDC McKamey Site Phase I ESA
Gregory, TX (1969)





CCREDC McKamey Site Phase I ESA
Corpus Christi, TX (1951)





CCREDC McKamey Site Phase I ESA
Corpus Christi, TX (1925)



Exhibit E

City Directory Reports

City Directory Target Property Address

Target Property:

*US Highway 181,
Taft, TX 78390*

Prepared For:

Hanson Professional Services

Order #: 100524

Project #: 18L0013

Date: 1/22/2018

City Directory Target Property Address

US Highway 181, Taft, TX 78390

321 US HIGHWAY 181

2016	WHATABURGER	INFOUSA	SOUTH CENTRAL
2011	WHATABURGER	INFOUSA	SOUTH CENTRAL

322 US HIGHWAY 181

2002	DE LA ROSA ROBERTO & LYDIA V	INFOUSA	SOUTH CENTRAL
------	------------------------------	---------	---------------

408 US HIGHWAY 181

2006	ERNEST ALVARADO	COLE DIRECTORY	CORPUS CHRISTI
2002	ALVARADO GG	INFOUSA	SOUTH CENTRAL

409 US HIGHWAY 181

2002	J&W AUTO SALES	INFOUSA	SOUTH CENTRAL
------	----------------	---------	---------------

418 US HIGHWAY 181

2016	TAQUERIA MI RANCHITO	INFOUSA	SOUTH CENTRAL
2011	MI RANCHITO CAFE	INFOUSA	SOUTH CENTRAL
2006	MI RANCHITO CAFE	COLE DIRECTORY	CORPUS CHRISTI
2002	MI RANCHITO CAFE	INFOUSA	SOUTH CENTRAL

430 US HIGHWAY 181

2011	COASTAL PRAGTI INC	INFOUSA	SOUTH CENTRAL
2006	COASTAL	COLE DIRECTORY	CORPUS CHRISTI

510 US HIGHWAY 181

2016	BREZINA'S TIRE & SVC	INFOUSA	SOUTH CENTRAL
2011	BREZINA'S TIRE & SVC	INFOUSA	SOUTH CENTRAL
2006	BREZINAS TIRE & SERVICE	COLE DIRECTORY	CORPUS CHRISTI
2002	BREZINA'S TIRE & SVC	INFOUSA	SOUTH CENTRAL

516 US HIGHWAY 181

2006	BREZINAS TIRE & SERVICE	COLE DIRECTORY	CORPUS CHRISTI
------	-------------------------	----------------	----------------

616 US HIGHWAY 181

2016	LOWE'S	INFOUSA	SOUTH CENTRAL
2016	SUBWAY	INFOUSA	SOUTH CENTRAL
2016	WESTERN UNION	INFOUSA	SOUTH CENTRAL
2011	SUPER S FOODS	INFOUSA	SOUTH CENTRAL
2006	SUPER S FOODS	COLE DIRECTORY	CORPUS CHRISTI

City Directory Target Property Address

US Highway 181, Taft, TX 78390

804 US HIGHWAY 181

2011	BECKER'S AG ELECTRONICS	INFOUSA	SOUTH CENTRAL
2006	BECKERS AG ELECTRONICS	COLE DIRECTORY	CORPUS CHRISTI
2006	TAFT FARM SUPPLY	COLE DIRECTORY	CORPUS CHRISTI

912 US HIGHWAY 181

2006	AUNT JACKIES SWEET DELIGHTS	COLE DIRECTORY	CORPUS CHRISTI
------	-----------------------------	----------------	----------------

914 US HIGHWAY 181

2011	STUDIO 181	INFOUSA	SOUTH CENTRAL
2006	STUDIO 181	COLE DIRECTORY	CORPUS CHRISTI

916 US HIGHWAY 181

2006	NIETO FAMILY HAIR SALON	COLE DIRECTORY	CORPUS CHRISTI
------	-------------------------	----------------	----------------

1001 US HIGHWAY 181

2002	MARY & SAM'S RESTAURANT	INFOUSA	SOUTH CENTRAL
------	-------------------------	---------	---------------

1008 US HIGHWAY 181

2006	INOCENICO V BLANCO	COLE DIRECTORY	CORPUS CHRISTI
------	--------------------	----------------	----------------

1010 US HIGHWAY 181

2016	INLAND MOTEL	INFOUSA	SOUTH CENTRAL
2011	INLAND MOTEL	INFOUSA	SOUTH CENTRAL
2006	INLAND MOTEL THE	COLE DIRECTORY	CORPUS CHRISTI
2002	INLAND MOTEL	INFOUSA	SOUTH CENTRAL

1014 US HIGHWAY 181

2006	NO CURRENT LISTING	COLE DIRECTORY	CORPUS CHRISTI
2002	LONGORIA MARIA	INFOUSA	SOUTH CENTRAL

1018 US HIGHWAY 181

2016	DONUT PALACE	INFOUSA	SOUTH CENTRAL
2002	TAFT AUTO CTR	INFOUSA	SOUTH CENTRAL

1020 US HIGHWAY 181

2011	TAQUERIA GUADALAJARA	INFOUSA	SOUTH CENTRAL
2006	ZAPOLTAN RESTAURANT	COLE DIRECTORY	CORPUS CHRISTI
2002	DAIRY QUEEN	INFOUSA	SOUTH CENTRAL

City Directory Target Property Address

US Highway 181, Taft, TX 78390

1100 US HIGHWAY 181

2006 J & JS BURGERS COLE DIRECTORY CORPUS CHRISTI

1110 US HIGHWAY 181

2016 WYLIE SPRAY CTR INFOUSA SOUTH CENTRAL

2002 L&R DRIVE THRU BEVERAGE BARN INFOUSA SOUTH CENTRAL

2002 X [END OF LISTING] INFOUSA SOUTH CENTRAL

1114 US HIGHWAY 181

2016 TAQUERIA EL MEXICA INFOUSA SOUTH CENTRAL

2011 TAQUERIA EL MEXICANO INFOUSA SOUTH CENTRAL

2006 TAQUERIA EL MEXICANO COLE DIRECTORY CORPUS CHRISTI

1200 US HIGHWAY 181

2016 DOLLAR GENERAL INFOUSA SOUTH CENTRAL

7363 US HIGHWAY 181

2016 M&M FARMING INFOUSA SOUTH CENTRAL

2006 MONTE CARROLL FLOERKE COLE DIRECTORY CORPUS CHRISTI

2006 PATTIE MCNAMEE FLOERKE COLE DIRECTORY CORPUS CHRISTI

2006 LOS TIRES FLOERKE INC COLE DIRECTORY CORPUS CHRISTI

2006 MAX M FLOERKE FAMILY LTD
PARTNERSHIP COLE DIRECTORY CORPUS CHRISTI

2006 KEATON C WEST COLE DIRECTORY CORPUS CHRISTI

2006 WHY I LOVE COLE DIRECTORY CORPUS CHRISTI

804 1/2 US HIGHWAY 181

2006 WILBUR ELLIS CO COLE DIRECTORY CORPUS CHRISTI

8207 US HIGHWAY 181

2006 APARTMENTS COLE DIRECTORY CORPUS CHRISTI

2006 CAROLE BENNETT A COLE DIRECTORY CORPUS CHRISTI

2006 KENNETH A BENNETT A COLE DIRECTORY CORPUS CHRISTI

9880 US HIGHWAY 181

2016 SOUTH TEXAS IMPLEMENT INFOUSA SOUTH CENTRAL

2011 SOUTH TEXAS IMPLEMENT INFOUSA SOUTH CENTRAL

Comment: County Road 102 was also researched and was not listed in any directories. No coverage available for Taft prior to 2002.

Exhibit F

Fire Insurance Map Report



FIM Abstract

Target Property:
CCREDC McKamey Site Phase I ESA
US-181
Gregory, San Patricio County, Texas 78374

Prepared For:
Hanson Professional Services

Order #: 100524
Job #: 219578
Project #: 18L0013
Date: 01/18/2018

TARGET PROPERTY SUMMARY

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

USGS Quadrangle: **Gregory, TX**

Target Property Geometry: **Area**

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

**(-97.341603, 27.949649), (-97.325413, 27.973937), (-97.320435, 27.972127), (-97.315929, 27.978987),
(-97.307314, 27.979015), (-97.313354, 27.969644), (-97.297604, 27.963883), (-97.301220, 27.956074),
(-97.301949, 27.956340), (-97.302260, 27.955695), (-97.309138, 27.958169), (-97.315768, 27.943943),
(-97.308129, 27.941223), (-97.311122, 27.934844), (-97.314727, 27.936029), (-97.318268, 27.937536),
(-97.333428, 27.945280), (-97.341603, 27.949649)**

County/Parish Covered:

San Patricio (TX)

Zipcode(s) Covered:

Portland TX: 78374

Taft TX: 78390

State(s) Covered:

TX

***Target property is located in Radon Zone 3.**

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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Date: 01/18/18
GS Job Number: 100524
Company Name: Hanson Professional Services
Project Number: 18L0013
Site Information: CCREDC McKamey Site Phase I ESA
US-181, Gregory, San Patricio, Texas, 78374

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 Searches



Environmental Lien

Target Property:
CCREDC McKamey Site Phase I ESA
US-181
Gregory, San Patricio County, Texas 78374

Prepared For:
Hanson Professional Services

Order #: 100524
Job #: 219574
Project #: 18L0013
Date: 01/19/2018

TARGET PROPERTY SUMMARY

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

USGS Quadrangle: **Gregory, TX**

Target Property Geometry: **Area**

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

(-97.341603, 27.949649), (-97.325413, 27.973937), (-97.320435, 27.972127), (-97.315929, 27.978987), (-97.307314, 27.979015), (-97.313354, 27.969644), (-97.297604, 27.963883), (-97.301220, 27.956074), (-97.301949, 27.956340), (-97.302260, 27.955695), (-97.309138, 27.958169), (-97.315768, 27.943943), (-97.308129, 27.941223), (-97.311122, 27.934844), (-97.314727, 27.936029), (-97.318268, 27.937536), (-97.333428, 27.945280), (-97.341603, 27.949649)

County/Parish Covered:

San Patricio (TX)

Zipcode(s) Covered:

Portland TX: 78374

Taft TX: 78390

State(s) Covered:

TX

***Target property is located in Radon Zone 3.**

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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 San Patricio County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 51729, Gregory, TX. and find the following:

None found

We have done a search of San Patricio County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 51729, Gregory, TX. and find the following:

None found



ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of San Patricio County Recorders Records for “Environmental Liens” only on the subject property as identified as Tax Parcel No. 51718, Gregory, TX. and find the following:

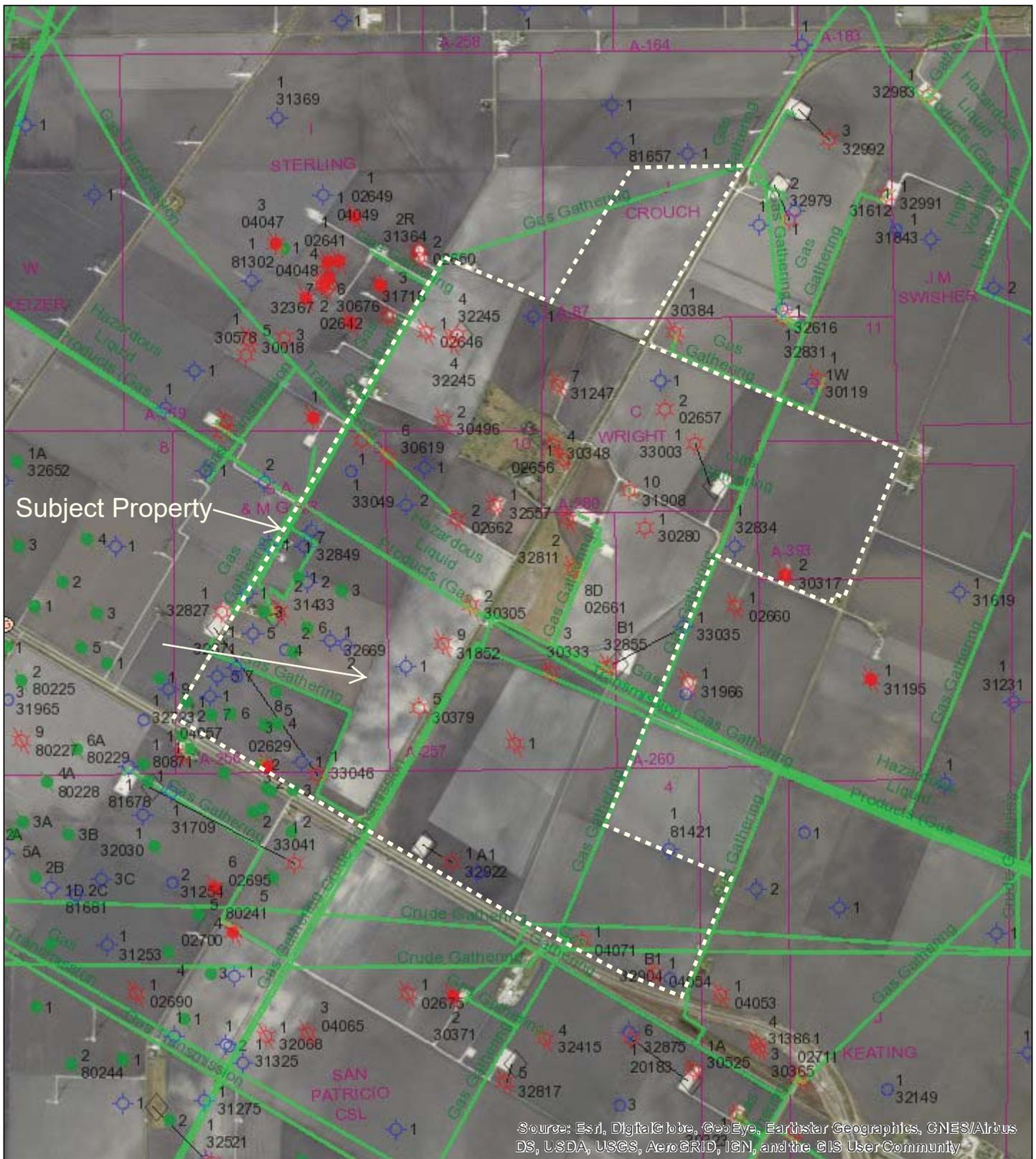
None found

We have done a search of San Patricio County Recorders Records for “Activity and Use Limitations” (AUL’s) only on the subject property as identified as Tax Parcel No. 51718, Gregory, TX. and find the following:

None found

Exhibit H

Railroad Commission of Texas Map



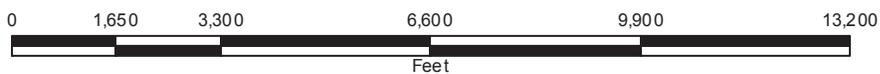
January 24, 2018

1 inch = 3,009 feet

PREPARED BY:

RAILROAD COMMISSION of TEXAS

P.O. BOX 12967
AUSTIN, TX 787 11-2967



NOTICE/DISCLAIMER: Mapping data sets are provided for informational purposes only. These data sets are continuously being updated and refined. Users are responsible for checking the accuracy, completeness, currency, and/or suitability of these data sets themselves. This is not a survey grade product and should not be used to define or establish survey boundaries.

Public GIS Viewer Legend

Well Number



Well Locations

-  Permitted Location
-  Dry Hole
-  Oil
-  Gas
-  Oil / Gas
-  Plugged Oil
-  Plugged Gas
-  Canceled / Abandoned Location
-  Plugged Oil / Gas
-  Injection / Disposal
-  Core Test
-  Sulfur Test
-  Storage from Oil
-  Storage from Gas
-  Shut-In Oil
-  Shut-In Gas
-  Injection / Disposal from Oil
-  Injection / Disposal from Gas
-  Injection / Disposal from Oil / Gas
-  Geothermal
-  Brine Mining
-  Water Supply
-  Water Supply from Oil
-  Water Supply from Gas
-  Water Supply from Oil / Gas
-  Observation
-  Observation from Oil
-  Observation from Gas
-  Observation from Oil / Gas
-  Storage
-  Service
-  Service from Oil
-  Service from Gas
-  Service from Oil / Gas
-  Storage from Oil / Gas
-  Injection / Disposal from Storage
-  Injection / Disposal from Storage / Oil
-  Injection / Disposal from Storage / Gas
-  Injection / Disposal from Storage / Oil / Gas
-  Observation from Storage
-  Observation from Storage / Oil
-  Observation from Storage / Gas
-  Observation from Storage / Oil / Gas
-  Service from Storage
-  Service from Storage / Oil
-  Service from Storage / Gas
-  Service from Storage / Oil / Gas
-  Plugged Storage
-  Plugged Storage / Oil

Public GIS Viewer Legend

	Plugged Storage / Gas		Storage / Brine Mining / Oil
	Plugged Storage Oil / Gas		Storage / Brine Mining / Gas
	Brine Mining		Storage / Brine Mining / Oil / Gas
	Brine Mining / Oil		Injection / Disposal from Storage / Brine Mining
	Brine Mining / Gas		Injection / Disposal from Storage / Brine Mining / Oil
	Brine Mining / Oil / Gas		Injection / Disposal from Storage / Brine Mining / Gas
	Injection / Disposal from Brine Mining		Injection / Disposal from Storage / Brine Mining / Oil / Gas
	Injection / Disposal from Brine Mining / Oil		Observation from Storage / Brine Mining
	Injection / Disposal from Brine Mining / Gas		Observation from Storage / Brine Mining / Oil
	Injection / Disposal from Brine Mining / Oil / Gas		Observation from Storage / Brine Mining / Gas
	Observation from Brine Mining		Observation from Storage / Brine Mining / Oil / Gas
	Observation from Brine Mining / Oil		Plugged Storage / Brine Mining
	Observation from Brine Mining / Gas		Plugged Storage / Brine Mining / Oil
	Observation from Brine Mining / Oil / Gas		Plugged Storage / Brine Mining / Gas
	Service from Brine Mining		Plugged Storage / Brine Mining / Oil / Gas
	Service from Brine Mining / Oil	Orphan Wells	
	Service from Brine Mining / Gas	Commercial Disposal	
	Service from Brine Mining / Oil / Gas	Injection/Disposal	
	Plugged Brine Mining	HCTS Deeper than 15,000 ft.	
	Plugged Brine Mining / Oil		
	Plugged Brine Mining / Gas		
	Plugged Brine Mining / Oil / Gas		
	Storage / Brine Mining		

Public GIS Viewer Legend

High Cost Tight Sands



EOR H13 Oil Wells



Well Logs



Horiz/Dir Surface Locations

Horizontal Well

Directional Well

Horizontal/Directional Lines



LPGAS Sites



QPipelines



Pipelines



Bay Tracts



Offshore Areas



Offshore Tracts



Water Lines



Subdivisions



Railroads



Surveys



Quads



Alert Areas



Water



City Limits



Counties



Operator Cleanup Program Sites

Active

Closed

Oil and Gas Districts



AED Districts



Pipeline Safety Regions



Exhibit I

Oil and Gas Report



On time. On target. In touch.™

GeoPlus Oil & Gas Report

[Satellite view](#)

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219577

Project #: 18L0013

Date: 01/17/2018

Table of Contents

<i>Target Property Summary</i>	1
<i>Database Radius Summary</i>	2
<i>Oil & Gas Map</i>	3
<i>Located Sites Summary</i>	3
<i>Oil & Gas Well Report</i>	10
<i>Environmental Records Definitions</i>	13

Disclaimer

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Target Property Summary

Target Property Information

CCREDC McKamey Site Phase I ESA

US-181

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Portland TX: 78374

Taft TX: 78390

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Radius Summary

STATE (TX) LISTING

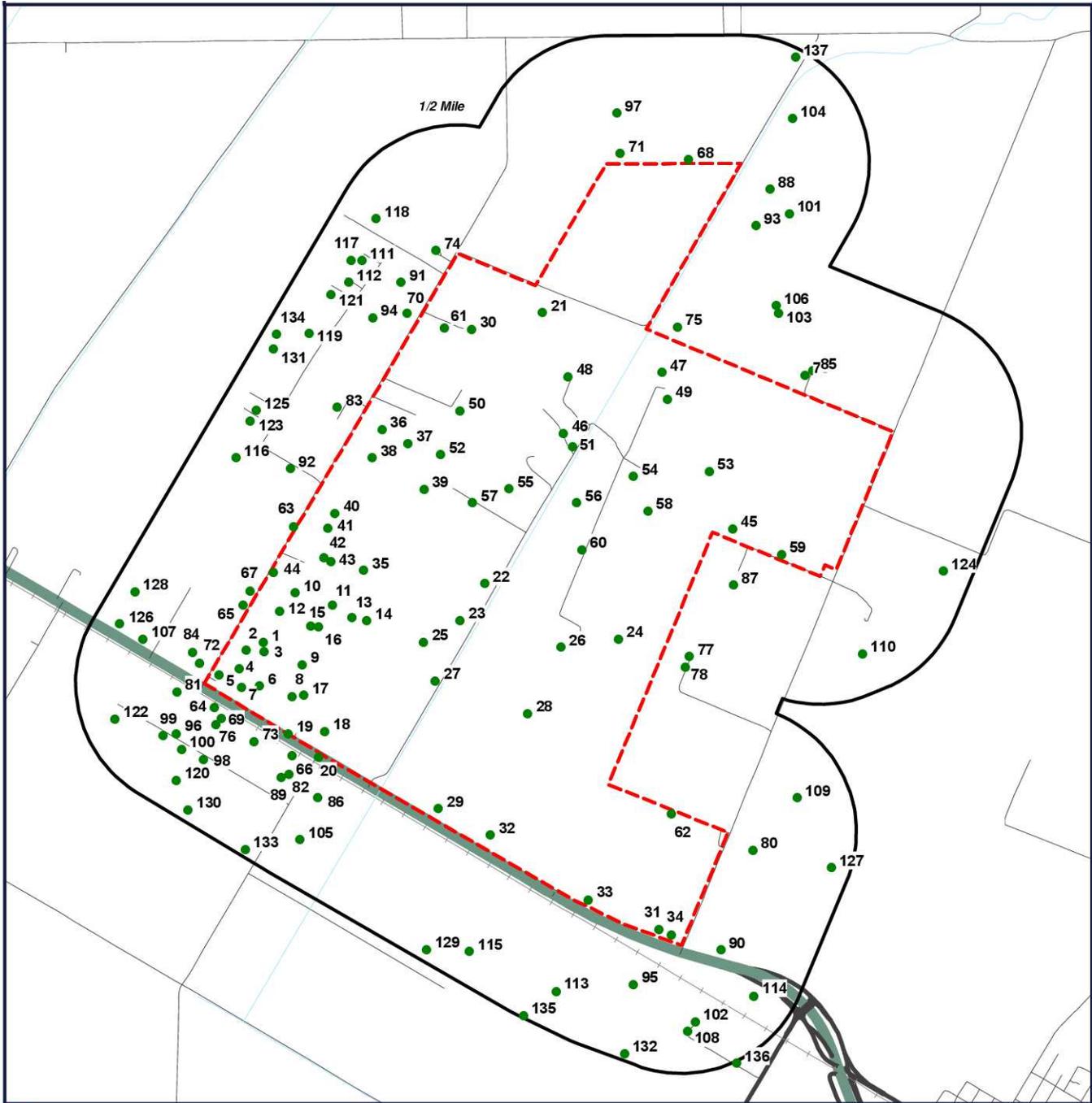
Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
OGWELLS	0.5000	65	25	16	39	NS	NS	145
SUB-TOTAL		65	25	16	39	0	0	145
TOTAL		65	25	16	39	0	0	145

NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

OIL & GAS MAP



-  Target Property (TP)
-  Surface Location

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374



[Click here to access Satellite view](#)

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
1	OGWELLS	1068218	TP		
2	OGWELLS	36643	TP		
3	OGWELLS	36646	TP		
4	OGWELLS	36642	TP		
5	OGWELLS	36631	TP		
6	OGWELLS	36633	TP		
7	OGWELLS	36632	TP		
8	OGWELLS	36634	TP		
9	OGWELLS	36630	TP		
10	OGWELLS	36628	TP		
10	OGWELLS	36648	TP		
11	OGWELLS	36422	TP		
12	OGWELLS	36644	TP		
13	OGWELLS	1068211	TP		
14	OGWELLS	36423	TP		
15	OGWELLS	36647	TP		
16	OGWELLS	36629	TP		
17	OGWELLS	36635	TP		
18	OGWELLS	36641	TP		
19	OGWELLS	36639	TP		
19	OGWELLS	36640	TP		
20	OGWELLS	1085498	TP		
21	OGWELLS	36397	TP		
22	OGWELLS	36413	TP		
23	OGWELLS	36414	TP		
24	OGWELLS	1148566	TP		
24	OGWELLS	1293736	TP		
25	OGWELLS	36419	TP		
26	OGWELLS	36415	TP		
27	OGWELLS	36416	TP		
28	OGWELLS	36417	TP		
29	OGWELLS	1205287	TP		
30	OGWELLS	36873	TP		
31	OGWELLS	36527	TP		
32	OGWELLS	36453	TP		
33	OGWELLS	36449	TP		
34	OGWELLS	1193273	TP		
35	OGWELLS	36421	TP		
36	OGWELLS	36407	TP		
37	OGWELLS	36408	TP		
38	OGWELLS	1313321	TP		
39	OGWELLS	1085499	TP		
40	OGWELLS	36425	TP		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
41	OGWELLS	1145817	TP		
42	OGWELLS	36627	TP		
43	OGWELLS	36424	TP		
44	OGWELLS	36645	TP		
45	OGWELLS	1140575	TP		
46	OGWELLS	36410	TP		
47	OGWELLS	36492	TP		
48	OGWELLS	36398	TP		
49	OGWELLS	36494	TP		
50	OGWELLS	36396	TP		
51	OGWELLS	36420	TP		
52	OGWELLS	36409	TP		
53	OGWELLS	1270255	TP		
54	OGWELLS	36411	TP		
55	OGWELLS	36891	TP		
56	OGWELLS	1128564	TP		
57	OGWELLS	36418	TP		
58	OGWELLS	36412	TP		
59	OGWELLS	36503	TP		
60	OGWELLS	36877	TP		
61	OGWELLS	36621	TP		
62	OGWELLS	36865	0.011 mi. NNE (58 ft.)		
63	OGWELLS	36426	0.022 mi. WNW (116 ft.)		
64	OGWELLS	36841	0.036 mi. SW (190 ft.)		
65	OGWELLS	1317084	0.037 mi. WNW (195 ft.)		
66	OGWELLS	36806	0.038 mi. SW (201 ft.)		
66	OGWELLS	36807	0.042 mi. SW (222 ft.)		
67	OGWELLS	1135947	0.042 mi. WNW (222 ft.)		
68	OGWELLS	36267	0.043 mi. N (227 ft.)		
69	OGWELLS	36636	0.059 mi. SW (312 ft.)		
70	OGWELLS	36395	0.066 mi. WNW (348 ft.)		
71	OGWELLS	36266	0.068 mi. N (359 ft.)		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
72	OGWELLS	36665	0.069 mi. WNW (364 ft.)		
73	OGWELLS	36637	0.069 mi. SW (364 ft.)		
74	OGWELLS	36393	0.093 mi. WNW (491 ft.)		
74	OGWELLS	36620	0.075 mi. WNW (396 ft.)		
75	OGWELLS	36495	0.081 mi. NNE (428 ft.)		
76	OGWELLS	36638	0.089 mi. SW (470 ft.)		
77	OGWELLS	36501	0.091 mi. ESE (480 ft.)		
78	OGWELLS	36500	0.094 mi. ESE (496 ft.)		
79	OGWELLS	36493	0.098 mi. NNE (517 ft.)		
80	OGWELLS	36570	0.104 mi. ESE (549 ft.)		
81	OGWELLS	1087703	0.107 mi. W (565 ft.)		
82	OGWELLS	36808	0.111 mi. SW (586 ft.)		
83	OGWELLS	36401	0.113 mi. WNW (597 ft.)		
84	OGWELLS	36660	0.115 mi. WNW (607 ft.)		
85	OGWELLS	36496	0.124 mi. NNE (655 ft.)		
86	OGWELLS	36794	0.128 mi. SSW (676 ft.)		
87	OGWELLS	36505	0.134 mi. SSW (708 ft.)		
88	OGWELLS	1253443	0.134 mi. ESE (708 ft.)		
89	OGWELLS	36805	0.136 mi. SW (718 ft.)		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
90	OGWELLS	36525	0.138 mi. ESE (729 ft.)		
91	OGWELLS	36391	0.147 mi. WNW (776 ft.)		
92	OGWELLS	36427	0.15 mi. WNW (792 ft.)		
93	OGWELLS	36269	0.158 mi. ESE (834 ft.)		
94	OGWELLS	36403	0.172 mi. WNW (908 ft.)		
95	OGWELLS	36448	0.183 mi. SSW (966 ft.)		
96	OGWELLS	36840	0.199 mi. SW (1051 ft.)		
97	OGWELLS	36265	0.225 mi. N (1188 ft.)		
98	OGWELLS	36815	0.232 mi. SW (1225 ft.)		
99	OGWELLS	36892	0.238 mi. SW (1257 ft.)		
100	OGWELLS	1300695	0.26 mi. SW (1373 ft.)		
100	OGWELLS	36667	0.242 mi. SW (1278 ft.)		
101	OGWELLS	36270	0.246 mi. ESE (1299 ft.)		
102	OGWELLS	36526	0.275 mi. SSE (1452 ft.)		
103	OGWELLS	1139542	0.283 mi. NNE (1494 ft.)		
104	OGWELLS	1266033	0.287 mi. NE (1515 ft.)		
105	OGWELLS	36793	0.306 mi. SSW (1616 ft.)		
106	OGWELLS	1051203	0.306 mi. NNE (1616 ft.)		
107	OGWELLS	36655	0.307 mi. WNW (1621 ft.)		
108	OGWELLS	1161099	0.307 mi. S (1621 ft.)		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
109	OGWELLS	36517	0.316 mi. ENE (1668 ft.)		
110	OGWELLS	36504	0.317 mi. SSE (1674 ft.)		
111	OGWELLS	36389	0.322 mi. WNW (1700 ft.)		
112	OGWELLS	36387	0.323 mi. WNW (1705 ft.)		
112	OGWELLS	36881	0.334 mi. WNW (1764 ft.)		
113	OGWELLS	36608	0.326 mi. SSW (1721 ft.)		
114	OGWELLS	36523	0.33 mi. ESE (1742 ft.)		
114	OGWELLS	36524	0.353 mi. ESE (1864 ft.)		
115	OGWELLS	36450	0.353 mi. SSW (1864 ft.)		
116	OGWELLS	36428	0.354 mi. WNW (1869 ft.)		
117	OGWELLS	36388	0.355 mi. WNW (1874 ft.)		
118	OGWELLS	36390	0.356 mi. WNW (1880 ft.)		
119	OGWELLS	36405	0.356 mi. WNW (1880 ft.)		
120	OGWELLS	36814	0.357 mi. SW (1885 ft.)		
121	OGWELLS	36402	0.358 mi. WNW (1890 ft.)		
122	OGWELLS	36658	0.365 mi. WSW (1927 ft.)		
123	OGWELLS	36400	0.378 mi. WNW (1996 ft.)		
124	OGWELLS	36502	0.379 mi. ESE (2001 ft.)		

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address
125	OGWELLS	36406	0.38 mi. WNW (2006 ft.)		
126	OGWELLS	36654	0.415 mi. WNW (2191 ft.)		
127	OGWELLS	36512	0.415 mi. ESE (2191 ft.)		
128	OGWELLS	36653	0.428 mi. WNW (2260 ft.)		
129	OGWELLS	36451	0.429 mi. SSW (2265 ft.)		
130	OGWELLS	36802	0.431 mi. SW (2276 ft.)		
131	OGWELLS	36394	0.444 mi. WNW (2344 ft.)		
132	OGWELLS	36447	0.448 mi. SSW (2365 ft.)		
133	OGWELLS	36818	0.448 mi. SW (2365 ft.)		
134	OGWELLS	36404	0.462 mi. WNW (2439 ft.)		
135	OGWELLS	1130152	0.467 mi. SSW (2466 ft.)		
136	OGWELLS	36522	0.483 mi. SSE (2550 ft.)		
137	OGWELLS	36268	0.49 mi. NNE (2587 ft.)		

Oil & Gas Well Report

MAP ID	SURFACE ID	API #	WELL TYPE #	LATITUDE	LONGITUDE
1	1068218	40932671	DRY HOLE	27.952351000	-97.337817000
2	36643	409	DRY HOLE	27.951925000	-97.338909000
3	36646	409	PERMITTED LOCATION	27.951869000	-97.337763000
4	36642	409	DRY HOLE	27.950851000	-97.339386000
5	36631	409	PLUGGED OIL WELL	27.950550000	-97.340631000
6	36633	409	PLUGGED OIL WELL	27.949906000	-97.338062000
7	36632	409	PLUGGED OIL WELL	27.949827000	-97.339200000
8	36634	409	PLUGGED OIL WELL	27.949325000	-97.336006000
9	36630	409	PLUGGED OIL WELL	27.951086000	-97.335327000
10	36628	409	PLUGGED OIL WELL	27.955351000	-97.336013000
10	36648	40931433	SIDETRACK WELL SURFACE LOCATION	27.955162000	-97.335752000
11	36422	409	PLUGGED OIL WELL	27.954492000	-97.333432000
12	36644	409	DRY HOLE	27.954144000	-97.336762000
13	1068211	40932669	DRY HOLE	27.953756000	-97.332149000
14	36423	409	DRY HOLE	27.953581000	-97.331204000
15	36647	409	PERMITTED LOCATION	27.953294000	-97.334806000
16	36629	409	PLUGGED OIL WELL	27.953220000	-97.334312000
17	36635	409	PLUGGED OIL WELL	27.949373000	-97.335253000
18	36641	409	DRY HOLE	27.947335000	-97.333877000
19	36639	40902629	PLUGGED OIL/GAS WELL	27.947088000	-97.335805000
19	36640	409	OIL WELL	27.947208000	-97.336219000
20	1085498	409	PLUGGED OIL WELL	27.945865000	-97.334281000
21	36397	409	DRY HOLE	27.971000000	-97.319973000
22	36413	40930305	PLUGGED GAS WELL	27.955699000	-97.323665000
23	36414	40931852	PLUGGED GAS WELL	27.953606000	-97.325252000
24	1148566	40932855	PLUGGED GAS WELL	27.952460000	-97.315350000
24	1293736	40933035	SIDETRACK WELL SURFACE LOCATION	27.952550000	-97.315134000
25	36419	409	DRY HOLE	27.952397000	-97.327602000
26	36415	40930333	PLUGGED GAS WELL	27.952095000	-97.318814000
27	36416	40930379	GAS WELL	27.950205000	-97.326829000
28	36417	409	PLUGGED GAS WELL	27.948362000	-97.320933000
29	1205287	40932922	SIDETRACK WELL SURFACE LOCATION	27.942975000	-97.326636000
30	36873	40932245	SIDETRACK WELL SURFACE LOCATION	27.970039000	-97.324505000
31	36527	40904054	PLUGGED GAS WELL	27.936156000	-97.312564000
32	36453	409	DRY HOLE	27.941469000	-97.323324000
33	36449	40904071	GAS WELL	27.937833000	-97.317068000
34	1193273	40932904	PERMITTED LOCATION	27.935842000	-97.311735000
35	36421	409	PLUGGED OIL WELL	27.956436000	-97.331391000
36	36407	409	GAS WELL	27.964399000	-97.330251000
37	36408	40930619	PLUGGED GAS WELL	27.963606000	-97.328573000
38	1313321	40933049	PERMITTED LOCATION	27.962789000	-97.330861000
39	1085499	409	DRY HOLE	27.961012000	-97.327573000
40	36425	409	DRY HOLE	27.959667000	-97.333249000
41	1145817	40932849	DRY HOLE	27.958827000	-97.333714000
42	36627	409	PLUGGED OIL WELL	27.957161000	-97.333954000
43	36424	409	DRY HOLE	27.956933000	-97.333525000
44	36645	409	DRY HOLE	27.956317000	-97.337156000
45	1140575	40932834	DRY HOLE	27.958788000	-97.307849000
46	36410	40930348	PLUGGED GAS WELL	27.964163000	-97.318644000
47	36492	409	DRY HOLE	27.967625000	-97.312341000
48	36398	40931247	PLUGGED GAS WELL	27.967377000	-97.318361000
49	36494	40902657	GAS WELL	27.966099000	-97.312009000
50	36396	40930496	PLUGGED GAS WELL	27.965452000	-97.325233000
51	36420	40902656	PLUGGED GAS WELL	27.963426000	-97.318062000

Oil & Gas Well Report

52	36409	409	DRY HOLE	27.962975000	-97.326508000
53	1270255	40933003	SIDETRACK WELL SURFACE LOCATION	27.962026000	-97.309335000
54	36411	40931908	GAS WELL	27.961733000	-97.314192000
55	36891	40932557	PLUGGED GAS WELL	27.961034000	-97.322127000
56	1128564	40932811	GAS WELL	27.960263000	-97.317797000
57	36418	40902662	PLUGGED GAS WELL	27.960250000	-97.324439000
58	36412	40930280	GAS WELL	27.959788000	-97.313252000
59	36503	40930317	PLUGGED OIL/GAS WELL	27.957319000	-97.304730000
60	36877	40902661	PLUGGED GAS WELL	27.957591000	-97.317480000
61	36621	40902646	PLUGGED GAS WELL	27.970140000	-97.326273000
62	36865	40981421	DRY HOLE	27.942691000	-97.311773000
63	36426	409	DRY HOLE	27.958908000	-97.335856000
64	36841	409	PLUGGED OIL WELL	27.948709000	-97.340970000
65	1317084	40933046	SIDETRACK WELL SURFACE LOCATION	27.954469000	-97.339093000
66	36806	409	OIL WELL	27.945978000	-97.335949000
66	36807	409	OIL WELL	27.945782000	-97.335680000
67	1135947	40932827	GAS WELL	27.955269000	-97.338650000
68	36267	409	DRY HOLE	27.979633000	-97.310645000
69	36636	409	PLUGGED OIL WELL	27.948074000	-97.340509000
70	36395	40931718	PLUGGED GAS WELL	27.970978000	-97.328643000
71	36266	40981657	DRY HOLE	27.979968000	-97.315006000
72	36665	409	DRY HOLE	27.951195000	-97.341877000
73	36637	40980239	PLUGGED OIL WELL	27.946773000	-97.338403000
74	36393	40902650	GAS WELL	27.974508000	-97.326807000
74	36620	40931364	PLUGGED GAS WELL	27.974115000	-97.326717000
75	36495	40930384	PLUGGED GAS WELL	27.970185000	-97.311361000
76	36638	40904057	PLUGGED GAS WELL	27.947747000	-97.340857000
77	36501	40931966	PLUGGED GAS WELL	27.951569000	-97.310607000
78	36500	40931847	PERMITTED LOCATION	27.950964000	-97.310838000
79	36493	40930119	DRY HOLE	27.967476000	-97.303220000
80	36570	409	DRY HOLE	27.940618000	-97.306566000
81	1087703	40932723	PERMITTED LOCATION	27.949570000	-97.343349000
82	36808	409	OIL WELL	27.944893000	-97.336202000
83	36401	409	PLUGGED OIL/GAS WELL	27.965650000	-97.333083000
84	36660	409	OIL WELL	27.951805000	-97.342359000
85	36496	409	PLUGGED GAS WELL	27.967709000	-97.302760000
86	36794	409	PLUGGED OIL WELL	27.943612000	-97.334354000
87	36505	40902660	PLUGGED GAS WELL	27.955591000	-97.307778000
88	1253443	40932979	SIDETRACK WELL SURFACE LOCATION	27.977953000	-97.305467000
89	36805	40980238	PLUGGED OIL WELL	27.944730000	-97.336692000
90	36525	40904053	PLUGGED GAS WELL	27.934991000	-97.308607000
91	36391	40902647	PLUGGED OIL/GAS WELL	27.972713000	-97.329028000
92	36427	409	DRY HOLE	27.962185000	-97.336106000
93	36269	409	DRY HOLE	27.975899000	-97.306349000
94	36403	40902648	PLUGGED OIL/GAS WELL	27.970711000	-97.330834000
95	36448	40920183	DRY HOLE	27.933030000	-97.314179000
96	36840	40980871	OIL WELL	27.947222000	-97.343367000
97	36265	409	DRY HOLE	27.982243000	-97.315223000
98	36815	40931709	DRY HOLE	27.945736000	-97.341636000
99	36892	40981678	DRY HOLE	27.947098000	-97.344232000
100	1300695	40933041	SIDETRACK WELL SURFACE LOCATION	27.946017000	-97.343021000
100	36667	409	OIL WELL	27.946340000	-97.343061000
101	36270	409	DRY HOLE	27.976598000	-97.304227000
102	36526	40930525	PLUGGED GAS WELL	27.930936000	-97.310234000
103	1139542	40932831	GAS WELL	27.970987000	-97.304919000

Oil & Gas Well Report

104	1266033	40932992	HORIZONTAL DRAINHOLE	27.981958000	-97.304000000
105	36793	40980241	PLUGGED OIL WELL	27.941215000	-97.335473000
106	1051203	40932616	DRY HOLE	27.971140400	-97.305058000
107	36655	409	PLUGGED OIL WELL	27.952569000	-97.345498000
108	1161099	40932875	SIDETRACK WELL SURFACE LOCATION	27.930410000	-97.310709000
109	36517	409	PERMITTED LOCATION	27.943586000	-97.303696000
110	36504	40931195	PLUGGED OIL/GAS WELL	27.951721000	-97.299554000
111	36389	40902641	PLUGGED OIL/GAS WELL	27.973940000	-97.331531000
112	36387	40930676	PLUGGED OIL/GAS WELL	27.972696000	-97.332375000
112	36881	40932367	SIDETRACK WELL SURFACE LOCATION	27.972688000	-97.332592000
113	36608	40932415	GAS WELL	27.932661000	-97.319129000
114	36523	40931386	PLUGGED GAS WELL	27.932398000	-97.306471000
114	36524	40930365	PLUGGED GAS WELL	27.932093000	-97.306257000
115	36450	40930371	OIL/GAS WELL	27.934896000	-97.324656000
116	36428	409	DRY HOLE	27.962795000	-97.339580000
117	36388	40904048	PLUGGED OIL/GAS WELL	27.973915000	-97.332185000
118	36390	40902649	PLUGGED OIL/GAS WELL	27.976293000	-97.330608000
119	36405	409	GAS WELL	27.969830000	-97.334923000
120	36814	40932030	DRY HOLE	27.944564000	-97.343387000
121	36402	40902642	PLUGGED OIL/GAS WELL	27.972000000	-97.333522000
122	36658	40980229	PLUGGED OIL WELL	27.948022000	-97.347286000
123	36400	40932330	GAS WELL	27.964876000	-97.338642000
124	36502	40931619	DRY HOLE	27.956383000	-97.294368000
125	36406	40904269	PLUGGED GAS WELL	27.965474000	-97.338286000
126	36654	409	PLUGGED OIL WELL	27.953411000	-97.346978000
127	36512	409	DRY HOLE	27.939640000	-97.301570000
128	36653	409	PLUGGED OIL WELL	27.955213000	-97.346032000
129	36451	40902675	PLUGGED GAS WELL	27.935023000	-97.327403000
130	36802	40980240	PLUGGED OIL WELL	27.942906000	-97.342615000
131	36394	40930578	GAS WELL	27.968941000	-97.337191000
132	36447	409	PERMITTED LOCATION	27.929130000	-97.314772000
133	36818	40902695	PLUGGED OIL/GAS WELL	27.940660000	-97.338972000
134	36404	40930018	PLUGGED GAS WELL	27.969777000	-97.336964000
135	1130152	40932817	SIDETRACK WELL SURFACE LOCATION	27.931292000	-97.321219000
136	36522	40930323	GAS WELL	27.928586000	-97.307586000
137	36268	409	DRY HOLE	27.985411000	-97.303847000

Environmental Records Definitions - STATE (TX)

OGWELLS

Oil and Gas Wells

VERSION DATE: 05/16/17

This oil and gas well 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 with no API and/or a historical API number in place. 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.

Exhibit J

Water Well Report



On time. On target. In touch.™

GeoPlus Water Well Report

[Satellite view](#)

Target Property:

CCREDC McKamey Site Phase I ESA

US-181

Gregory, San Patricio County, Texas 78374

Prepared For:

Hanson Professional Services

Order #: 100524

Job #: 219576

Project #: 18L0013

Date: 01/17/2018

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Target Property Summary

Target Property Information

CCREDC McKamey Site Phase I ESA

US-181

Gregory, Texas 78374

Coordinates

Area

USGS Quadrangle

Gregory, TX

Geographic Coverage Information

County/Parish: San Patricio (TX)

ZipCode(s):

Portland TX: 78374

Taft TX: 78390

Radon

* Target property is located in Radon Zone 3.

Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

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	0	0	4	NS	NS	4
TCEQ	0.5000	0	0	0	0	NS	NS	0
TWDB	0.5000	0	3	0	0	NS	NS	3
WUD	0.5000	0	0	0	0	NS	NS	0

SUB-TOTAL		0	3	0	4	0	0	7
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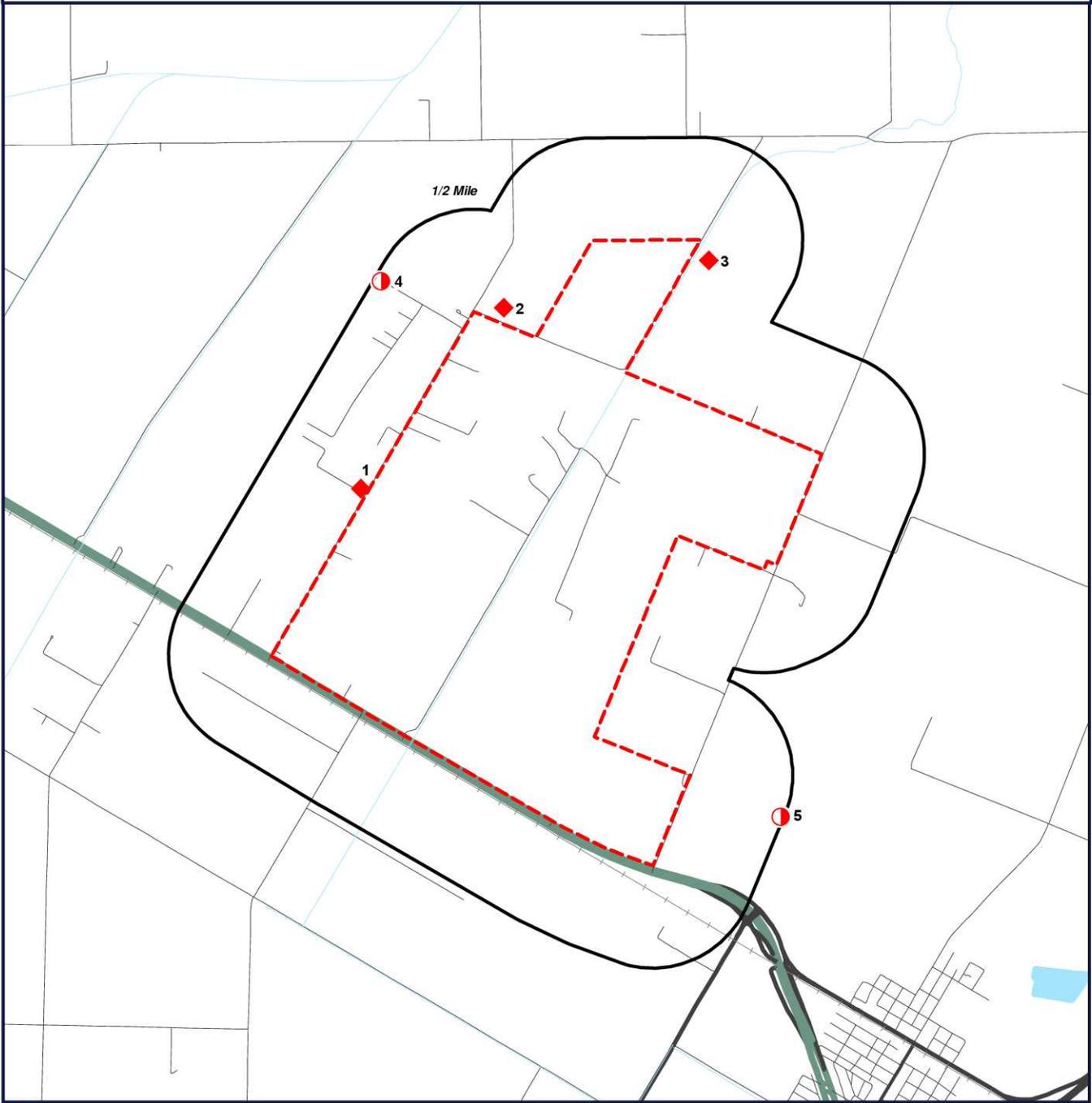
TOTAL		0	3	0	4	0	0	7
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NOTES:

NS = NOT SEARCHED

TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

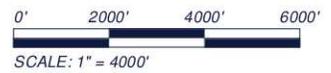
Waterwell Map



- Target Property (TP)
- TWDB
- SDRD

CCREDC McKamey Site Phase I
ESA
US-181
Gregory, Texas
78374

CONTOUR LINES REPRESENTED IN FEET



[Click here to access Satellite view](#)

Located Sites Summary

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	TWDB	83-06-101	0.035 mi. WNW (185 ft.)	V. WARBINGTON		6
2	TWDB	83-06-202	0.069 mi. NNE (364 ft.)	E. C. PASTEJOVSKY		8
3	TWDB	83-06-203	0.086 mi. ESE (454 ft.)	JERRY BARTOSH		10
4	SDRD	TX37083	0.463 mi. WNW (2445 ft.)	KOCH PIPELINE CO., LP	KPL LOUIS DREYFUS (DLF) LEASE SITE, 2.5 MILES E. OF TAFT, TX	12
4	SDRD	TX37086	0.463 mi. WNW (2445 ft.)	KOCH PIPELINE CO., LP	KPL LOUIS DREYFUS (DLF) LEASE SITE, 2.5 MILES E. OF TAFT, TX	13
4	SDRD	TX37087	0.463 mi. WNW (2445 ft.)	KOCH PIPELINE CO., LP	KPL LOUIS DREYFUS (DLF) LEASE SITE, 2.5 MILES E. OF TAFT, TX	14
5	SDRD	TX177810	0.488 mi. ESE (2577 ft.)	BAY, LTD.	HWY 181, GREGORY, TX 78359	15

Texas Water Development Board Groundwater Database (TWDB)

[MAP ID# 1](#)

Distance from Property: 0.035 mi. (185 ft.) WNW

STATE ID: 83-06-101

OWNER'S NAME: V. WARBINGTON

DATE DRILLED: 00/00/1922

DEPTH DRILLED: 300'

WATER USAGE: UNUSED

LONGITUDE: -97

LATITUDE: 28

SOURCE: TWDB

Texas Water Development Board Groundwater Database (TWDB)

MAP ID# 2

Distance from Property: 0.069 mi. (364 ft.) NNE

STATE ID: 83-06-202

OWNER'S NAME: E. C. PASTEJOVSKY

DATE DRILLED: 00/00/1960

DEPTH DRILLED: 205'

WATER USAGE: DOMESTIC

LONGITUDE: -97

LATITUDE: 28

SOURCE: TWDB

WD Form (04)
Aug. 1984

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

Record by Geological Survey Source Topog Date 8-25-85 Map Geol

State Tenn County Franklin Section West Substrate Shale

Latitude 37° 18' 26" N Longitude 89° 17' 12" W

Local well number 195-205 Other well number 195-205

Local use: EC PASTERJANSKY Other use: EC PASTERJANSKY

Owner or name: EC PASTERJANSKY Address: 411 1/2 4 TEN

Ownership: County, Fed Gov't, City, Corp or Co, Private State Agency, Water Dist

Use of well: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YY) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)

DATA AVAILABLE: Well data Test. W/O. test: Field aquifer char.

Hyd. Lab. data:

Qual. water data:

Test. sampling: Pumpage inventory: not tested:

Artificially recharged:

Log data:

SAVE AS ON MASTER CARD Depth well: 205 ft. 210.5 ft. 211 ft. 212 ft. 213 ft. 214 ft. 215 ft. 216 ft. 217 ft. 218 ft. 219 ft. 220 ft. 221 ft. 222 ft. 223 ft. 224 ft. 225 ft. 226 ft. 227 ft. 228 ft. 229 ft. 230 ft. 231 ft. 232 ft. 233 ft. 234 ft. 235 ft. 236 ft. 237 ft. 238 ft. 239 ft. 240 ft. 241 ft. 242 ft. 243 ft. 244 ft. 245 ft. 246 ft. 247 ft. 248 ft. 249 ft. 250 ft. 251 ft. 252 ft. 253 ft. 254 ft. 255 ft. 256 ft. 257 ft. 258 ft. 259 ft. 260 ft. 261 ft. 262 ft. 263 ft. 264 ft. 265 ft. 266 ft. 267 ft. 268 ft. 269 ft. 270 ft. 271 ft. 272 ft. 273 ft. 274 ft. 275 ft. 276 ft. 277 ft. 278 ft. 279 ft. 280 ft. 281 ft. 282 ft. 283 ft. 284 ft. 285 ft. 286 ft. 287 ft. 288 ft. 289 ft. 290 ft. 291 ft. 292 ft. 293 ft. 294 ft. 295 ft. 296 ft. 297 ft. 298 ft. 299 ft. 300 ft. 301 ft. 302 ft. 303 ft. 304 ft. 305 ft. 306 ft. 307 ft. 308 ft. 309 ft. 310 ft. 311 ft. 312 ft. 313 ft. 314 ft. 315 ft. 316 ft. 317 ft. 318 ft. 319 ft. 320 ft. 321 ft. 322 ft. 323 ft. 324 ft. 325 ft. 326 ft. 327 ft. 328 ft. 329 ft. 330 ft. 331 ft. 332 ft. 333 ft. 334 ft. 335 ft. 336 ft. 337 ft. 338 ft. 339 ft. 340 ft. 341 ft. 342 ft. 343 ft. 344 ft. 345 ft. 346 ft. 347 ft. 348 ft. 349 ft. 350 ft. 351 ft. 352 ft. 353 ft. 354 ft. 355 ft. 356 ft. 357 ft. 358 ft. 359 ft. 360 ft. 361 ft. 362 ft. 363 ft. 364 ft. 365 ft. 366 ft. 367 ft. 368 ft. 369 ft. 370 ft. 371 ft. 372 ft. 373 ft. 374 ft. 375 ft. 376 ft. 377 ft. 378 ft. 379 ft. 380 ft. 381 ft. 382 ft. 383 ft. 384 ft. 385 ft. 386 ft. 387 ft. 388 ft. 389 ft. 390 ft. 391 ft. 392 ft. 393 ft. 394 ft. 395 ft. 396 ft. 397 ft. 398 ft. 399 ft. 400 ft. 401 ft. 402 ft. 403 ft. 404 ft. 405 ft. 406 ft. 407 ft. 408 ft. 409 ft. 410 ft. 411 ft. 412 ft. 413 ft. 414 ft. 415 ft. 416 ft. 417 ft. 418 ft. 419 ft. 420 ft. 421 ft. 422 ft. 423 ft. 424 ft. 425 ft. 426 ft. 427 ft. 428 ft. 429 ft. 430 ft. 431 ft. 432 ft. 433 ft. 434 ft. 435 ft. 436 ft. 437 ft. 438 ft. 439 ft. 440 ft. 441 ft. 442 ft. 443 ft. 444 ft. 445 ft. 446 ft. 447 ft. 448 ft. 449 ft. 450 ft. 451 ft. 452 ft. 453 ft. 454 ft. 455 ft. 456 ft. 457 ft. 458 ft. 459 ft. 460 ft. 461 ft. 462 ft. 463 ft. 464 ft. 465 ft. 466 ft. 467 ft. 468 ft. 469 ft. 470 ft. 471 ft. 472 ft. 473 ft. 474 ft. 475 ft. 476 ft. 477 ft. 478 ft. 479 ft. 480 ft. 481 ft. 482 ft. 483 ft. 484 ft. 485 ft. 486 ft. 487 ft. 488 ft. 489 ft. 490 ft. 491 ft. 492 ft. 493 ft. 494 ft. 495 ft. 496 ft. 497 ft. 498 ft. 499 ft. 500 ft. 501 ft. 502 ft. 503 ft. 504 ft. 505 ft. 506 ft. 507 ft. 508 ft. 509 ft. 510 ft. 511 ft. 512 ft. 513 ft. 514 ft. 515 ft. 516 ft. 517 ft. 518 ft. 519 ft. 520 ft. 521 ft. 522 ft. 523 ft. 524 ft. 525 ft. 526 ft. 527 ft. 528 ft. 529 ft. 530 ft. 531 ft. 532 ft. 533 ft. 534 ft. 535 ft. 536 ft. 537 ft. 538 ft. 539 ft. 540 ft. 541 ft. 542 ft. 543 ft. 544 ft. 545 ft. 546 ft. 547 ft. 548 ft. 549 ft. 550 ft. 551 ft. 552 ft. 553 ft. 554 ft. 555 ft. 556 ft. 557 ft. 558 ft. 559 ft. 560 ft. 561 ft. 562 ft. 563 ft. 564 ft. 565 ft. 566 ft. 567 ft. 568 ft. 569 ft. 570 ft. 571 ft. 572 ft. 573 ft. 574 ft. 575 ft. 576 ft. 577 ft. 578 ft. 579 ft. 580 ft. 581 ft. 582 ft. 583 ft. 584 ft. 585 ft. 586 ft. 587 ft. 588 ft. 589 ft. 590 ft. 591 ft. 592 ft. 593 ft. 594 ft. 595 ft. 596 ft. 597 ft. 598 ft. 599 ft. 600 ft. 601 ft. 602 ft. 603 ft. 604 ft. 605 ft. 606 ft. 607 ft. 608 ft. 609 ft. 610 ft. 611 ft. 612 ft. 613 ft. 614 ft. 615 ft. 616 ft. 617 ft. 618 ft. 619 ft. 620 ft. 621 ft. 622 ft. 623 ft. 624 ft. 625 ft. 626 ft. 627 ft. 628 ft. 629 ft. 630 ft. 631 ft. 632 ft. 633 ft. 634 ft. 635 ft. 636 ft. 637 ft. 638 ft. 639 ft. 640 ft. 641 ft. 642 ft. 643 ft. 644 ft. 645 ft. 646 ft. 647 ft. 648 ft. 649 ft. 650 ft. 651 ft. 652 ft. 653 ft. 654 ft. 655 ft. 656 ft. 657 ft. 658 ft. 659 ft. 660 ft. 661 ft. 662 ft. 663 ft. 664 ft. 665 ft. 666 ft. 667 ft. 668 ft. 669 ft. 670 ft. 671 ft. 672 ft. 673 ft. 674 ft. 675 ft. 676 ft. 677 ft. 678 ft. 679 ft. 680 ft. 681 ft. 682 ft

Texas Water Development Board Groundwater Database (TWDB)

MAP ID# 3

Distance from Property: 0.086 mi. (454 ft.) ESE

STATE ID: **83-06-203**

OWNER'S NAME: **JERRY BARTOSH**

DATE DRILLED: **00/00/1960**

DEPTH DRILLED: **186'**

WATER USAGE: **DOMESTIC**

LONGITUDE: **-97**

LATITUDE: **28**

SOURCE: **TWDB**

Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.463 mi. (2,445 ft.) WNW

ID #: TX37083

TRACK #: 37083

DATE ENTERED: 2004-05-06

OWNER NAME: KOCH PIPELINE CO., LP

OWNER ADDRESS: 8606 IH 35
CHORPUS CHRISTI, TX 78406

COUNTY: SAN PATRICIO

LATITUDE: 28 LONGITUDE: -97

WELL LOG:

DRILLING DATE (STARTED): 2004-03-11

DRILLING DATE (COMPLETED): 2004-03-11

DEPTH DRILLED: 25'

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: ALPINE FIELD SERVICES, INC.

COMPANY ADDRESS: 9095 EMMOTT ROAD
HOUSTON, TX 77040

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.463 mi. (2,445 ft.) WNW

ID #: TX37086

TRACK #: 37086

DATE ENTERED: 2004-05-06

OWNER NAME: KOCH PIPELINE CO., LP

OWNER ADDRESS: 8606 IH 35
CHORPUS CHRISTI, TX 78406

COUNTY: SAN PATRICIO

LATITUDE: 28 LONGITUDE: -97

WELL LOG:

DRILLING DATE (STARTED): 2004-03-11

DRILLING DATE (COMPLETED): 2004-03-11

DEPTH DRILLED: 10'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:

COMPANY NAME: ALPINE FIELD SERVICES, INC.

COMPANY ADDRESS: 9095 EMMOTT ROAD
HOUSTON, TX 77040

[Back to Report Summary](#)

Submitted Drillers Report Database (SDRD)

MAP ID# 4

Distance from Property: 0.463 mi. (2,445 ft.) WNW

ID #: TX37087

TRACK #: 37087

DATE ENTERED: 2004-05-06

OWNER NAME: KOCH PIPELINE CO., LP

OWNER ADDRESS: 8606 IH 35
CHORPUS CHRISTI, TX 78406

COUNTY: SAN PATRICIO

LATITUDE: 28 LONGITUDE: -97

WELL LOG:

DRILLING DATE (STARTED): 2004-03-11

DRILLING DATE (COMPLETED): 2004-03-11

DEPTH DRILLED: 8'

WATER LEVEL:

STATIC LEVEL: NOT REPORTED'

WATER LEVEL DATE: NOT REPORTED

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

ENVIRONMENTAL SOIL BORING

COMPANY INFORMATION:

COMPANY NAME: ALPINE FIELD SERVICES, INC.

COMPANY ADDRESS: 9095 EMMOTT ROAD
HOUSTON, TX 77040

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Submitted Drillers Report Database (SDRD)

MAP ID# 5

Distance from Property: 0.488 mi. (2,577 ft.) ESE

ID #: TX177810

TRACK #: 177810

DATE ENTERED: 2009-05-11

OWNER NAME: BAY, LTD.

OWNER ADDRESS: P.O. BOX 9908
CORPUS CHRISTI, TX 78469

COUNTY: SAN PATRICIO

LATITUDE: 28 LONGITUDE: -97

WELL LOG:

DRILLING DATE (STARTED): 2005-10-20

DRILLING DATE (COMPLETED): 2005-10-20

DEPTH DRILLED: 200'

WATER LEVEL:

STATIC LEVEL: 12'

WATER LEVEL DATE: 2005-10-20

TYPE OF WATER: NOT REPORTED

TYPE OF WORK:

NEW WELL

PROPOSED USE:

INDUSTRIAL

COMPANY INFORMATION:

COMPANY NAME: MARTIN WATER WELLS

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

[Back to Report Summary](#)

Environmental Records Definitions - FEDERAL

NWIS

United States Geological Survey National Water Information System

VERSION DATE: 12/14/16

This USGS National Water Information System database only includes groundwater wells. The USGS defines this well type as: A hole or shaft constructed in the earth intended to be used to locate, sample, or develop groundwater, oil, gas, or some other subsurface material. The diameter of a well is typically much smaller than the depth. Wells are also used to artificially recharge groundwater or to pressurize oil and gas production zones. Additional information about specific kinds of wells should be recorded under the secondary site types or the Use of Site field. Underground waste-disposal wells should be classified as waste-injection wells.

Environmental Records Definitions - STATE (TX)

SDRD Submitted Drillers Report Database

VERSION DATE: 11/07/17

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: 11/07/17

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 K

Site Visit Photo Log

Photo Log of Site Visit – McKamey Site



1. Photo taken near southeast corner of subject property facing northwest. Farmland of the subject property and a right of way for U.S. Highway 181 can be seen.



2. Photo taken near southeast corner of subject property facing north. Farmland of the subject property can be seen across CR 3865.

Photo Log of Site Visit – McKamey Site



3. Photo taken near southeast corner of subject property facing northeast. CR 3865 can be seen between the subject property and the adjacent property to the east.



4. Photo taken near southeast corner of subject property facing southeast. The adjacent property to the east and a right-of-way for U.S. Highway 181 can be seen.

Photo Log of Site Visit – McKamey Site



5. Photo taken approximately 120 feet north of southeast corner of subject property facing west. A buried cable warning marker can be seen on the subject property.



6. Photo taken approximately 550 feet north of subject property facing northeast. A communications tower and electric distribution lines can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



7. Photo taken to east of communications tower facing west. A sign containing contact information and warning signs can be seen on the fence surrounding the tower.



8. Photo taken approximately 1,120 feet north of southeast corner of subject property facing west. A warning marker for a gas pipeline can be seen.

Photo Log of Site Visit – McKamey Site



9. Photo taken approximately 1,900 feet north of southeast corner of subject property facing north. A residential property on the southeast portion of the subject property can be seen.



10. Photo taken approximately 2,220 feet north of southeast corner of subject property facing west. Warning markers for buried cables and a sign indicating the addresses of two residential homes in this area (5407 and 5409 CR 3865) can be seen.

Photo Log of Site Visit – McKamey Site



11. Photo taken approximately 2,220 feet north of southeast corner of subject property facing north. A residential property on the southeast portion of the subject property can be seen.



12. Photo taken approximately 4,400 feet north of southeast corner of subject property facing northwest. On the property adjacent to the subject property, two aerial pipeline markers and three warning markers for an LPG and a crude oil pipeline can be seen. In the distance, a communications tower can be seen.

Photo Log of Site Visit – McKamey Site



13. Photo taken approximately 4,750 feet north of southeast corner of subject property facing northwest. On the property adjacent to the subject property, a warning marker for a high pressure petroleum pipeline can be seen.



14. Photo taken approximately 4,830 feet north of southeast corner of subject property facing west. Two warning markers for gas pipelines can be seen.

Photo Log of Site Visit – McKamey Site



15. Photo taken near center of eastern property boundary facing north. Farmland of the subject property can be seen.



16. Photo taken near center of eastern property boundary facing northeast. An aboveground pipeline appurtenance adjacent to the subject property can be seen.

Photo Log of Site Visit – McKamey Site



17. Photo taken near center of eastern property boundary facing northwest. Flag markers crossing the central portion of the subject property can be seen.



18. Photo taken near center of eastern property boundary. Warning flag from previous photo for a buried gas pipeline can be seen.

Photo Log of Site Visit – McKamey Site



19. Photo taken near center of eastern property boundary facing northeast. In the distance, two pipeline warning markers can be seen. RRC records indicate that two in-service natural gas pipelines and one in-service nitrogen pipeline cross this portion of the subject property.



20. Photo taken approximately 7,450 feet north of southeast corner of subject property facing east. Two signs for proposed air permits (No. 142008L004 and 115956L004) for the property adjacent to the subject property can be seen. Both proposed permits are for operating concrete batch plants.

Photo Log of Site Visit – McKamey Site



21. Photo taken approximately 7,450 feet north of southeast corner of subject property facing north. A residential property adjacent to the subject property can be seen.



22. Photo taken south of northeast portion of subject property facing northwest. A caliche road leading to the central portion of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



23. Photo taken along southern portion of northeast portion of subject property facing north. An old well pad can be seen on the subject property.



24. Photo taken along southern portion of northeast portion of subject property facing west. Abandoned farming equipment can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



25. Photo taken in northeast portion of subject property facing southwest. An irrigation/drainage ditch can be seen on the subject property.



26. Photo taken in northeast portion of subject property facing northwest. A caliche road and farmland can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



27. Photo taken in northeast portion of subject property facing northeast. An irrigation/drainage ditch can be seen on the subject property.



28. Photo taken in northeast portion of subject property facing northwest. Piles of harvested cotton can be seen on an old production facility pad on the subject property.

Photo Log of Site Visit – McKamey Site



29. Photo of production facility sign. A pile of rocks can be seen behind the sign.



30. Photo taken in northeast portion of subject property facing west. A communications tower on the subject property can be seen.

Photo Log of Site Visit – McKamey Site



31. Photo taken in northeast portion of subject property facing southwest. Piles of brush, mulch, and lumber can be seen on the subject property.



32. Photo taken in northeast portion of subject property facing southwest. A well surface tree can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



33. Photo taken to west of well surface tree facing southwest. Pipes protruding from the ground can be seen on the subject property.



34. Photo taken in central portion of subject property facing southwest. A pad area possibly associated with past oil and gas exploration that is being used as a laydown area for harvested cotton and trailers can be seen.

Photo Log of Site Visit – McKamey Site



35. Photo taken in central portion of subject property facing west. Entrance to pad area can be seen.



36. Photo taken in central portion of subject property on pad area. Harvested cotton appeared to have been burned on this pad as well as many others.

Photo Log of Site Visit – McKamey Site



37. Photo taken in central portion of subject property on pad area. Harvested cotton appeared to have been burned on this pad as well as many others.



38. Photo taken in central portion of subject property on pad area. A pipe connection can be seen protruding from the ground.

Photo Log of Site Visit – McKamey Site



39. Photo taken in central portion of subject property facing southwest. Two pole-mounted transformers can be seen on the subject property. The transformers did not appear to have markings indicating that they were free of PCBs.



40. Photo taken in central portion of subject property facing southeast. A pad area possibly associated with past oil and gas exploration that is being used as a laydown area for two tanks and an aboveground pipeline appurtenance can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



41. Photo taken in central portion of subject property facing northwest. A pipeline warning marker and an aboveground pipeline appurtenance can be seen on the subject property.



42. Photo taken in central portion of subject property facing southwest. Two tanks, a well surface tree, and farming equipment can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



43. Photo of label on tanks in previous photo. Dexron II was an automatic transmission fluid used in the 1970s.



44. Photo of well surface tree from photo #42.

Photo Log of Site Visit – McKamey Site



45. Photo taken in central portion of subject property facing southwest. A sign for a Cities Service Oil & Gas Company well lease entrance can be seen on the subject property.



46. Photo taken in central portion of subject property facing west. A flock of what appeared to be sandhill cranes can be seen in a field on the subject property.

Photo Log of Site Visit – McKamey Site



47. Photo taken in central portion of subject property facing west. A flock of what appeared to be red-winged blackbirds can be seen in a field on the subject property.



48. Photo taken in central portion of subject property facing west. What appeared to be red-winged blackbirds can be seen in a tree on the subject property.

Photo Log of Site Visit – McKamey Site



49. Photo taken in central portion of subject property facing west. A flock of what appeared to be sandhill cranes can be seen in a field on the subject property.



50. Photo taken in central portion of subject property facing southwest. Cattle on the subject property can be seen.

Photo Log of Site Visit – McKamey Site

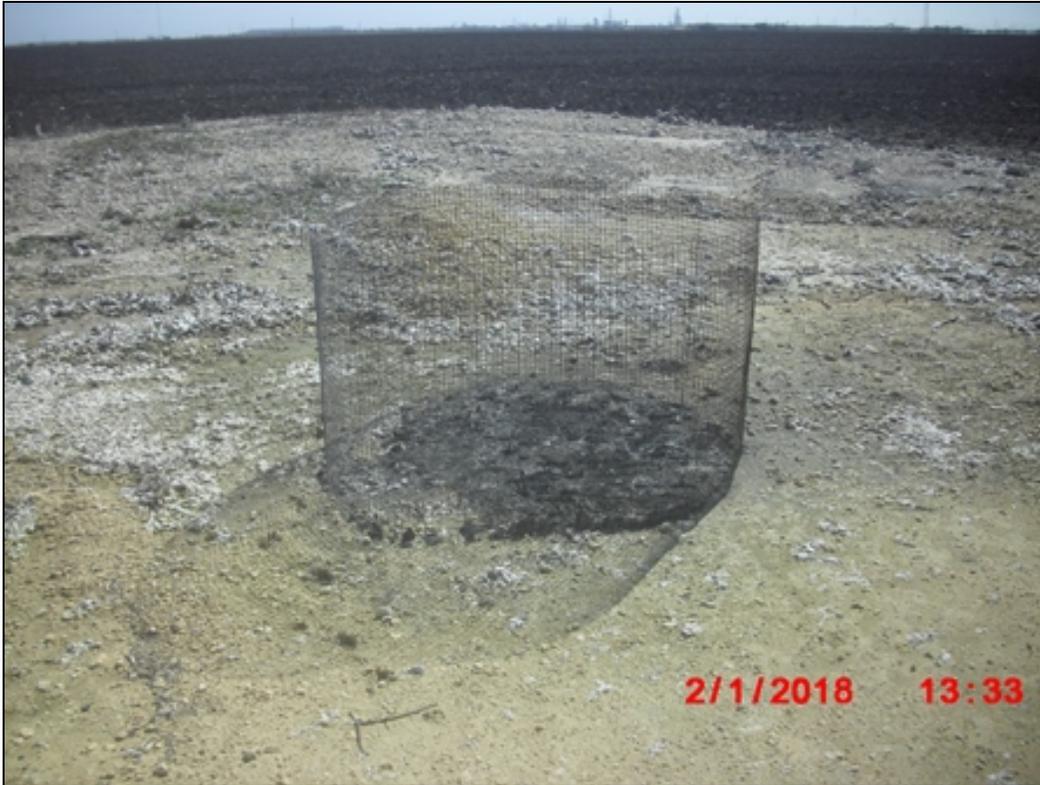


51. Photo taken in central portion of subject property facing southeast. A pad area possibly associated with past oil and gas exploration that is being used as a laydown area for farming equipment can be seen on the subject property.



52. Photo of farming equipment stored on pad area on subject property.

Photo Log of Site Visit – McKamey Site



53. Photo taken on pad area in central portion of subject property facing southeast. A caged area that appeared to be used for burning material can be seen.



54. Photo taken on pad area in central portion of subject property facing south. Farmland of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



55. Photo taken in central portion of subject property facing southwest. A pad area possibly associated with past oil and gas exploration that is being used as a laydown area for two storage units, a fuel tank, and two herbicide tanks can be seen.



56. Photo taken on pad area facing west. A natural gas pipeline crossing a ditch on the subject property can be seen.

Photo Log of Site Visit – McKamey Site



57. Photo taken on pad area facing west. Two locked storage units on the subject property can be seen.



58. Photo taken on pad area facing south. A pile of burning cotton on the subject property can be seen.

Photo Log of Site Visit – McKamey Site



59. Photo taken on pad area facing west. A tank for storing tractor diesel can be seen on the subject property.



60. Photo taken on pad area facing north. A nozzle for the tractor diesel tank can be seen.

Photo Log of Site Visit – McKamey Site



61. Photo taken of identifying label on tractor diesel tank.



62. Photo taken on pad area facing west. A culvert bridge crossing a ditch on the subject property can be seen.

Photo Log of Site Visit – McKamey Site



63. Photo taken on pad area facing north. Two tanks for storing herbicides can be seen on the subject property.



64. Photo of tank labeled to contain Atrazine 4L herbicide.

Photo Log of Site Visit – McKamey Site



65. Photo of tank labeled to contain Liberty 280 SL herbicide.



66. Photo taken on southern portion of the private road that crosses north/south through the subject property facing west. South portion of pad area possibly associated with past oil and gas exploration that is not currently being used can be seen.

Photo Log of Site Visit – McKamey Site



67. Photo taken on southern portion of the private road that crosses north/south through the subject property facing west. North portion of pad area possibly associated with past oil and gas exploration that is not currently being used can be seen.



68. Photo taken on southern portion of the private road that crosses north/south through the subject property facing northeast. A pipeline that used to cross the ditch on the subject property appears to have fallen down.

Photo Log of Site Visit – McKamey Site



69. Photo taken on southern portion of the private road that crosses north/south through the subject property facing west. A well pad and well surface tree can be seen.



70. Photo of well surface tree from previous photo.

Photo Log of Site Visit – McKamey Site



71. Photo taken on southern portion of the private road that crosses north/south through the subject property facing northwest. A tire and metal post can be seen on the subject property.



72. Photo taken on southern portion of the private road that crosses north/south through the subject property facing southeast. A tank and three elevated transformers can be seen.

Photo Log of Site Visit – McKamey Site



73. Photo taken on central portion of the private road that crosses north/south through the subject property facing west. A pad area possibly associated with past oil and gas exploration that is not currently being used can be seen.



74. Photo taken in central portion of subject property facing north. A pad area possibly associated with past oil and gas exploration that is not currently being used can be seen.

Photo Log of Site Visit – McKamey Site



75. Photo taken in west-central portion of subject property facing southwest. Farmland of the subject property can be seen.



76. Photo taken in west-central portion of subject property facing northwest. Farmland and a row of small trees can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



77. Photo taken in west-central portion of subject property facing north. Farmland and a row of small trees can be seen on the subject property.



78. Photo taken in west-central portion of subject property facing northeast. Farmland and a row of small trees can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



79. Photo taken in west-central portion of subject property facing southwest. Farmland and a row of small trees can be seen on the subject property



80. Photo taken in west-central portion of subject property facing southeast. Farmland and a row of small trees can be seen on the subject property.

Photo Log of Site Visit – McKamey Site



81. Photo taken in central portion of subject property facing northwest. A door sign for Rhaps Gardens, an exotic tropical plant greenhouse operation that was present on the subject property for at least 35 years, can be seen.



82. Photo taken in central portion of subject property facing northwest. Additional buildings associated with Rhaps Gardens can be seen. Past the buildings, a several potted palm plants can be seen.

Photo Log of Site Visit – McKamey Site



83. Photo taken in central portion of subject property facing northwest. Additional buildings associated with Rhaps Gardens can be seen.



84. Photo taken in central portion of subject property facing north. A building associated with Rhaps Gardens can be seen.

Photo Log of Site Visit – McKamey Site



85. Photo taken in central portion of subject property facing southeast. A building associated with Rhaps Gardens and the surrounding farm can be seen.



86. Photo of interior of building in previous photo. Several stacked plant containers and what appears to be cotton gin equipment can be seen.

Photo Log of Site Visit – McKamey Site



87. Photo taken in central portion of subject property facing northwest. The exterior of the building in the previous photo can be seen. The structure was previously used as a greenhouse operation but is now abandoned and appears to be leaning.



88. Photo taken in central portion of subject property facing northwest. The exterior of the building in photo #86 can be seen. The structure was previously used as a greenhouse operation but is now abandoned and appears to be leaning.

Photo Log of Site Visit – McKamey Site



89. Photo taken on central portion of the private road that crosses north/south through the subject property facing northeast. The ditch that parallels the private road can be seen.



90. Photo taken on central portion of the private road that crosses north/south through the subject property facing west. A grassy area to the east of Rhaps Gardens and a tractor can be seen.

Photo Log of Site Visit – McKamey Site



91. Photo taken along private road that leads to a residence in the central portion of the subject property. Livestock in a fenced area can be seen.



92. Photo taken in central portion of subject property facing west. A residence in the central portion of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



93. Photo taken in central portion of subject property facing west. A residence in the central portion of the subject property can be seen.



94. Photo taken in northwest portion of subject property facing south. What appear to be out of use tractor diesel tanks can be seen.

Photo Log of Site Visit – McKamey Site



95. Photo taken in northwest portion of subject property facing southwest. A ditch/stream can be seen behind the fence.



96. Photo taken in northwest portion of subject property facing north. A pad area possibly associated with past oil and gas exploration that is being used to store hay bales can be seen.

Photo Log of Site Visit – McKamey Site



97. Photo taken in north-central portion of subject property facing northeast. The ditch that crosses the subject property north/south can be seen.



98. Photo taken in north-central portion of subject property facing southwest. The ditch that crosses the subject property north/south can be seen.

Photo Log of Site Visit – McKamey Site



99. Photo taken in north portion of subject property facing north. Piles of harvested cotton can be seen burning on the subject property on the west side of the ditch.



100. Photo taken near northeast corner of subject property facing northwest. Farmland of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



101. Photo near northeast corner of subject property facing east. A residential/farm property across CR 3865 can be seen.



102. Photo taken along northern property boundary facing northwest. An area where illegal dumping of household items has occurred can be seen to the north of the subject property.

Photo Log of Site Visit – McKamey Site



103. Photo taken along northern property boundary facing southwest. Farmland of the subject property can be seen.



104. Photo taken along northern property boundary facing northeast. Farmland to the north of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



105. Photo taken approximately 1,000 feet north of subject property facing northwest. A natural gas production facility can be seen.



106. Photo taken approximately 1,700 feet north of subject property facing north. A warning sign posted by EOG Resources Inc. for the natural gas production facility can be seen.

Photo Log of Site Visit – McKamey Site



107. Photo taken along northern portion of subject property facing north. The ditch that crosses the subject property north/south and wind turbines can be seen. A construction project occurring on the north portion of the subject property can also be seen.



108. Photo taken along northern portion of subject property facing west. Farmland of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



109. Photo taken near north point of subject property facing west. A construction project occurring on the northern portion of the subject property can be seen.



110. Photo taken near northern point of subject property facing north. A wind turbine can be seen to the north of the subject property.

Photo Log of Site Visit – McKamey Site



111. Photo taken near center of southern property boundary facing north. A sign identifying the “McKamey Lease 386.12 acres” and a warning sign posted by EOG Resources Inc. for the lease can be seen on the subject property.



112. Photo taken near center of southern property boundary facing northeast. A gas well surface tree and above ground storage tanks can be seen at this production facility.

Photo Log of Site Visit – McKamey Site



113. Photo of aboveground storage tanks at production facility on the subject property. The tank on the left was labeled as containing produced water and the two other tanks were labeled as containing condensate. A secondary containment berm was present around the tanks.



114. Photo of small aboveground storage tank present at production facility on the subject property. This tank was labeled as containing triethylene glycol, which may be used to dehydrate natural gas, and was provided with secondary containment.

Photo Log of Site Visit – McKamey Site



115. Photo taken of gas well located at production facility on the subject property. The well is identified as McKamey Well No. 1.



116. Photo of small storage tank located at production facility on the subject property. This tank was labeled as containing PFR-23 and was provided with secondary containment.

Photo Log of Site Visit – McKamey Site



117. Photo taken near southwest corner of subject property facing northeast. A residential property on the subject property can be seen.



118. Photo taken near southwest corner of subject property facing northwest. Farmland and wind turbines adjacent to the subject property can be seen.

Photo Log of Site Visit – McKamey Site



119. Photo taken approximately 1,500 feet north of southwest corner of subject property facing northeast. A warning marker for a gas pipeline can be seen in front of farmland of the subject property.



120. Photo taken approximately 1,500 feet north of southwest corner of subject property facing northwest. A production facility with aboveground storage tanks, aboveground pipeline appurtenances, and a gas flare can be seen across CR 3677 from the subject property. Secondary containment berms appear to be present around the aboveground storage tanks.

Photo Log of Site Visit – McKamey Site



121. Photo taken approximately 3,100 feet north of southwest corner of subject property facing northwest. A warning marker for a natural gas pipeline can be seen on the property adjacent to the subject property.



122. Photo taken approximately 3,700 feet north of southwest corner of subject property facing northeast. A warning marker for a natural gas pipeline can be seen in front of a residential property located on the subject property.

Photo Log of Site Visit – McKamey Site



123. Photo taken approximately 3,700 feet north of southwest corner of subject property facing northwest. A warning marker for a natural gas pipeline can be seen on the property adjacent to the subject property.



124. Photo taken approximately 4,700 feet north of southwest corner of subject property facing northwest. A sign identifying the “Knipe Gas Unit #3 175 Acre Lease” and a warning sign posted by Vantage for the lease can be seen on the property adjacent to the subject property.

Photo Log of Site Visit – McKamey Site



125. Photo taken approximately 4,900 feet north of southwest corner of subject property facing northeast. Warning markers can be seen on the subject property for a high pressure natural gas pipeline and a high pressure petroleum pipeline.



126. Photo taken approximately 5,600 feet north of southwest corner of subject property facing northwest. A production facility with a well surface tree, aboveground storage tanks, and a gas flare can be seen across CR 3677 from the subject property. Secondary containment berms appear to be present around the aboveground storage tanks.

Photo Log of Site Visit – McKamey Site



127. Photo taken approximately 6,570 feet north of southwest corner of subject property facing northwest. A sign identifying the “Knife #1 175 Acre Lease” and a warning sign posted by Vantage for the lease can be seen on the property adjacent to the subject property.



128. Photo taken approximately 6,820 feet north of southwest corner of subject property facing southeast. Remnants of an old well pad can be seen on the farmland of the subject property.

Photo Log of Site Visit – McKamey Site



129. Photo taken approximately 7,230 feet north of southwest corner of subject property facing east. A sign identifying “Magnum Producing, LP Bartosh Gas Unit Well # 336 Acres” can be seen on the subject property. A residential/farm property can be seen in the distance.



130. Photo taken approximately 8,800 feet north of southwest corner of subject property facing south. Farmland of the subject property can be seen.

Photo Log of Site Visit – McKamey Site



131. Photo taken approximately 8,800 feet north of southwest corner of subject property facing northwest. A wind turbine can be seen on the property adjacent to the subject property.



132. Photo taken near northwest corner of subject property facing north. A warning marker for a gas pipeline can be seen.

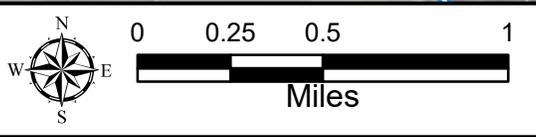
Photo Log of Site Visit – McKamey Site



133. Photo taken near northwest corner of subject property facing south. Farmland of the subject property can be seen.

Exhibit L

USGS National Hydrography Dataset Map



Legend

-  Subject Property
-  NHD Flow Line



Subject Property
(Approximately 2,400 Acres)

Document Path: I:\18jobs\18L0013\CAD\GIS\Projects\McKamey\Exhibit K NHD.mxd



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Hanson Professional Services Inc.

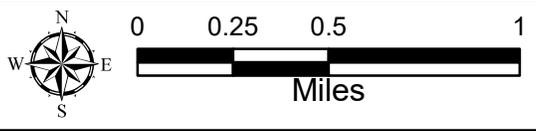
USGS National Hydrography Dataset Map

Phase I Environmental Site Assessment
McKamey Site
Gregory, San Patricio County, Texas

Job Number: 18L0013 Exhibit L

Exhibit M

USFWS National Wetlands Survey Inventory Map



Legend

Wetland Type

- Freshwater Emergent Wetland
- Riverine
- Subject Property



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Hanson Professional Services Inc.

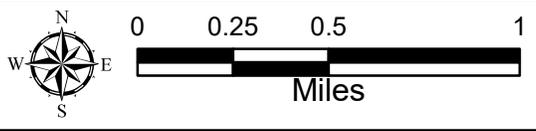
USFWS National Wetlands Inventory Map

Phase I Environmental Site Assessment
McKamey Site
Gregory, San Patricio County, Texas

Job Number: 18L0013 Exhibit M

Exhibit N

Web Soil Survey Hydric Soils Dataset Map



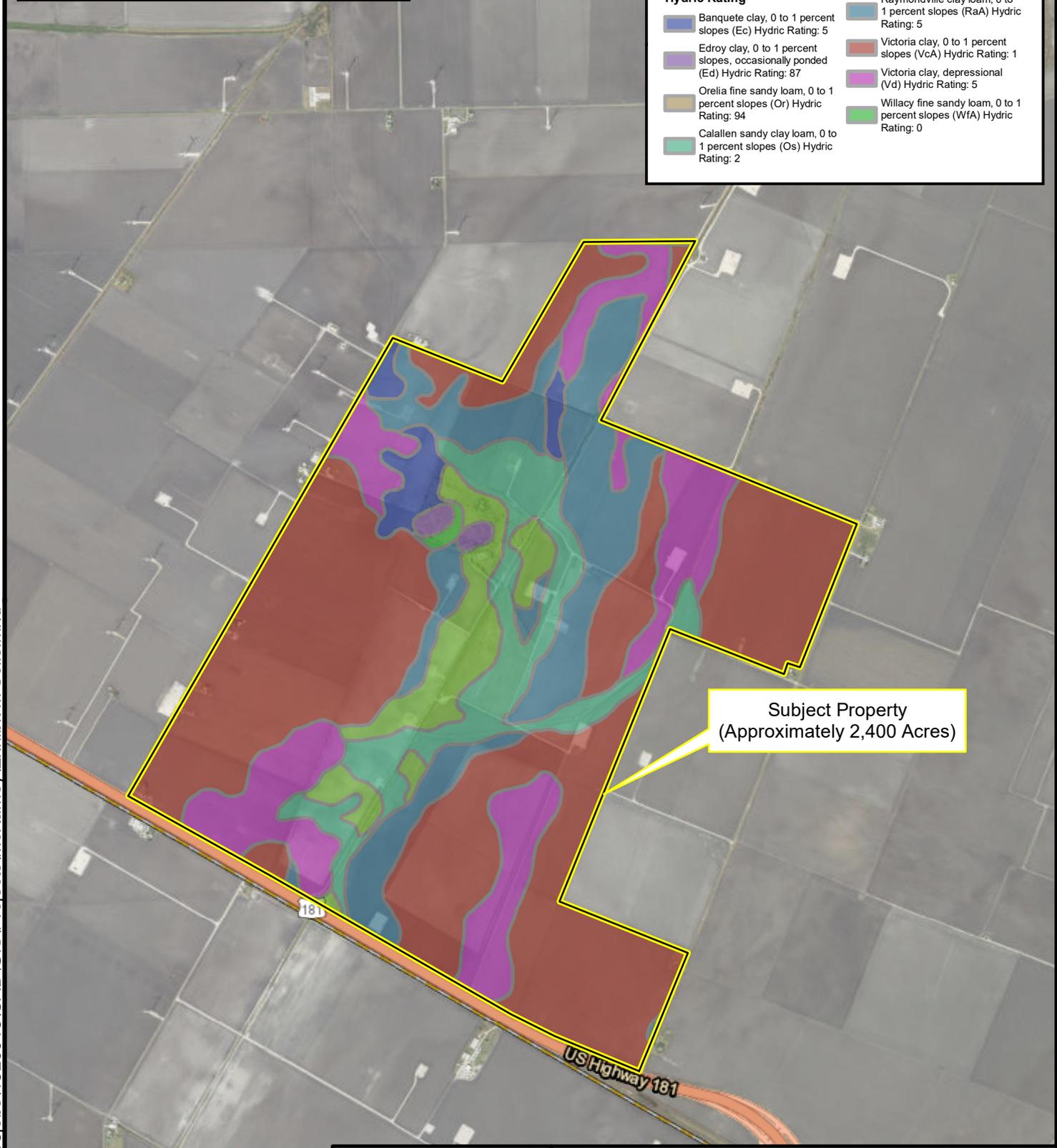
Legend

Subject Property

Map Unit Name (Symbol)

Hydric Rating

- Banquete clay, 0 to 1 percent slopes (Ec) Hydric Rating: 5
- Edroy clay, 0 to 1 percent slopes, occasionally ponded (Ed) Hydric Rating: 87
- Orelia fine sandy loam, 0 to 1 percent slopes (Or) Hydric Rating: 94
- Calallen sandy clay loam, 0 to 1 percent slopes (Os) Hydric Rating: 2
- Papalote fine sandy loam, 0 to 1 percent slopes (PaA) Hydric Rating: 5
- Raymondville clay loam, 0 to 1 percent slopes (RaA) Hydric Rating: 5
- Victoria clay, 0 to 1 percent slopes (VcA) Hydric Rating: 1
- Victoria clay, depressional (Vd) Hydric Rating: 5
- Willacy fine sandy loam, 0 to 1 percent slopes (WfA) Hydric Rating: 0



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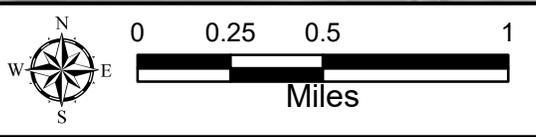
Web Soil Survey Hydric Dataset Map

Phase I Environmental Site Assessment
McKamey Site
Gregory, San Patricio County, Texas

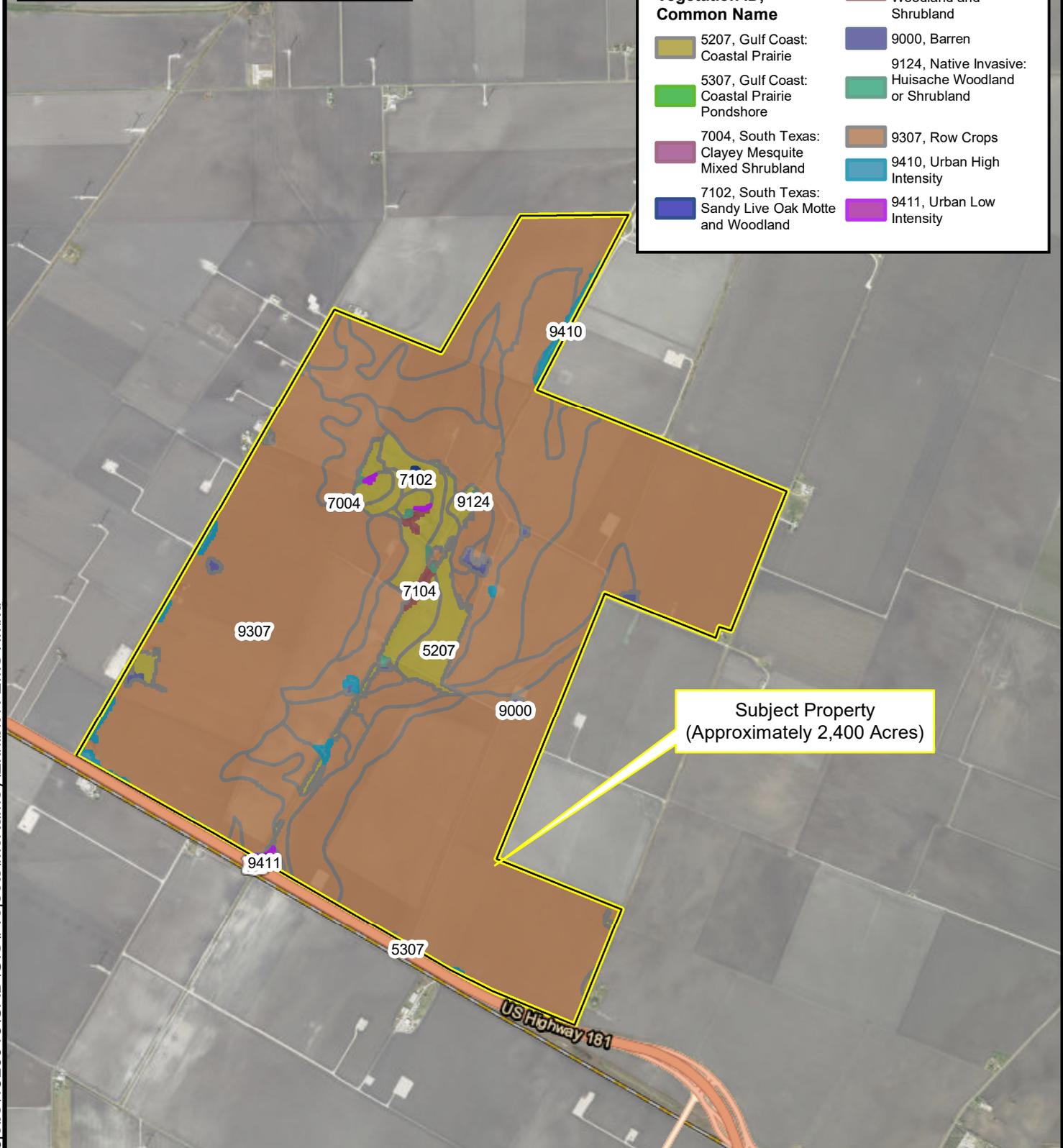
Job Number: 18L0013 Exhibit N

Exhibit O

TPWD Ecological Mapping System of Texas Map



Legend	
	Subject Property
Vegetation ID, Common Name	
	5207, Gulf Coast: Coastal Prairie
	5307, Gulf Coast: Coastal Prairie Pondshore
	7004, South Texas: Clayey Mesquite Mixed Shrubland
	7102, South Texas: Sandy Live Oak Motte and Woodland
	7104, South Texas: Sandy Mesquite Woodland and Shrubland
	9000, Barren
	9124, Native Invasive: Huisache Woodland or Shrubland
	9307, Row Crops
	9410, Urban High Intensity
	9411, Urban Low Intensity



Subject Property
(Approximately 2,400 Acres)

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TPWD Ecological Mapping System of Texas Map

Phase I Environmental Site Assessment
McKamey Site
Gregory, San Patricio County, Texas

Job Number: 18L0013

Exhibit O

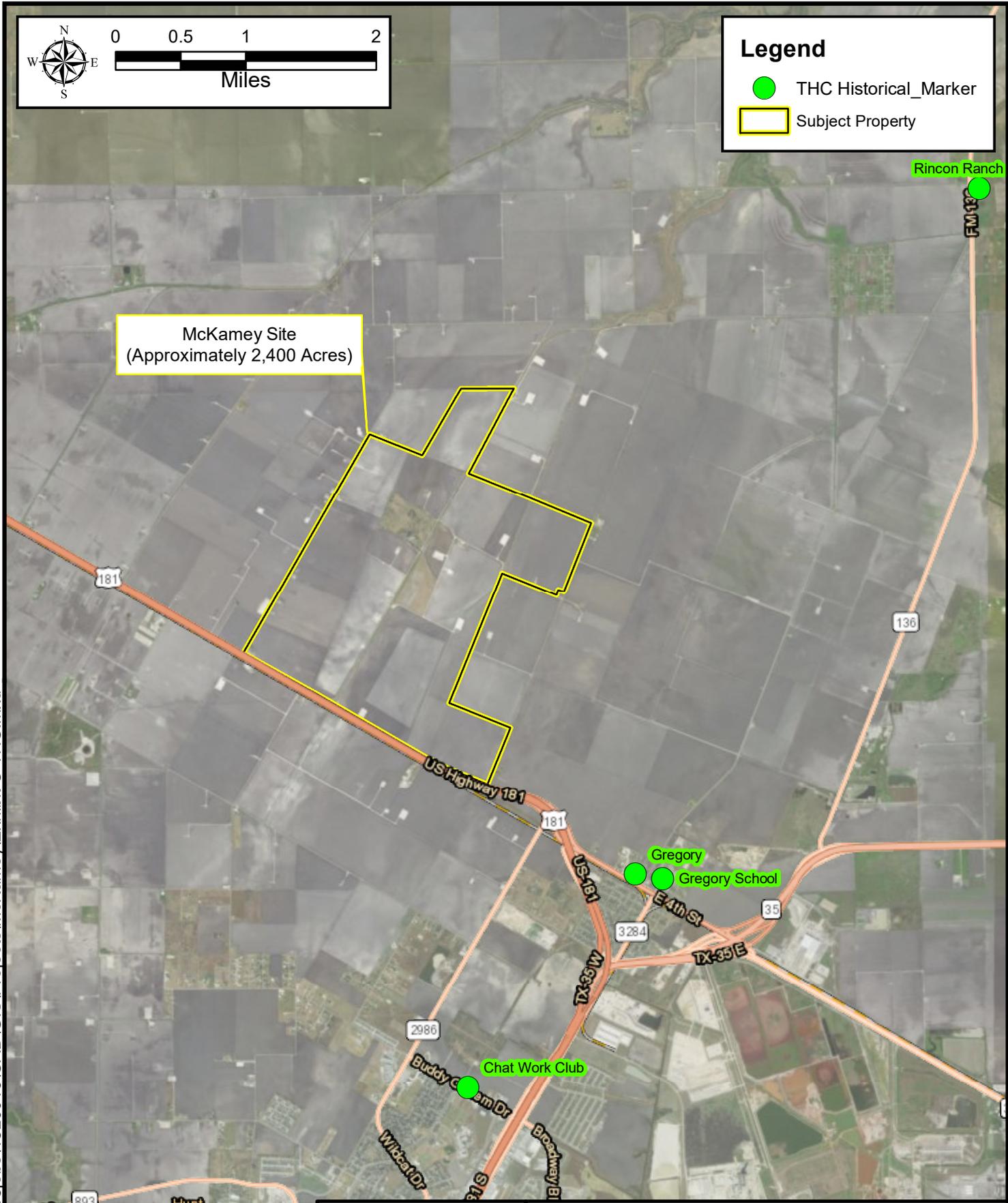
Exhibit P

THC Historic Markers Map



Legend

- THC Historical_Marker
- Subject Property



McKamey Site
(Approximately 2,400 Acres)

Rincon Ranch

Gregory
Gregory School

Chat Work Club

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THC Historical Markers Map

Phase I Environmental Site Assessment
McKamey Site
Gregory, San Patricio County, Texas

Job Number: 18L0013 Exhibit P

Exhibit Q

Federal and State Listed Species



U.S. Fish & Wildlife Service

ECOS

[ECOS](#) / [Species Reports](#) / Species By County Report

Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: San Patricio, Texas

[Download CSV](#)Need to contact a FWS field office about a species? Follow [this link](#) to find your local FWS Office.

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Birds	Whooping crane (<i>Grus americana</i>)	Wherever found, except where listed as an experimental population	Endangered	Assistant Regional Director-Ecological Services	Whooping Crane Recovery Plan, Final Third Revision	Implementation Progress	Final Revision 3
Birds	Brown pelican (<i>Pelecanus occidentalis</i>)	except U.S. Atlantic coast, FL, AL	Recovery	Ventura Fish and Wildlife Office			
Birds	Piping Plover (<i>Charadrius melodus</i>)	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	Office of the Regional Director	Volume I: Draft Revised Recovery Plan for the Northern Great Plains Piping Plover (Charadrius melodus)	Recovery efforts in progress, but no implementation information yet to display.	Draft Revision 1
Birds	Piping Plover (<i>Charadrius melodus</i>)	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	Office of the Regional Director	Piping Plover Atlantic Coast Population Revised Recovery Plan	Implementation Progress	Final Revision 1
Birds	Red knot (<i>Calidris canutus rufa</i>)	Wherever found	Threatened	New Jersey Ecological Services Field Office			
Clams	Golden orb (<i>Quadrula aurea</i>)	Wherever found	Candidate	Texas Coastal Ecological Services Field Office			
Mammals	West Indian Manatee (<i>Trichechus manatus</i>)	Wherever found	Threatened	North Florida Ecological Services Field Office	Recovery Plan Puerto Rican Population of the West Indian (Antillean) Manatee	Implementation Progress	Final

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Mammals	West Indian Manatee (<i>Trichechus manatus</i>)	Wherever found	Threatened	North Florida Ecological Services Field Office	Florida Manatee Recovery Plan, Third Revision	Implementation Progress	Final Revision 3
Mammals	Gulf Coast jaguarundi (<i>Herpailurus (=Felis) yagouaroundi cacomitli</i>)	Wherever found	Endangered	Laguna Atascosa National Wildlife Refuge	GULF COAST JAGUARUNDI RECOVERY PLAN (Puma yagouaroundi cacomitli)	Implementation Progress	Final
Mammals	Ocelot (<i>Leopardus (=Felis) pardalis</i>)	wherever found	Endangered	Laguna Atascosa National Wildlife Refuge	Recovery Plan for the Ocelot (Leopardus pardalis) First Revision	Recovery efforts in progress, but no implementation information yet to display.	Final
Reptiles	Hawksbill sea turtle (<i>Eretmochelys imbricata</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for U.S. Pacific Populations of the Hawksbill Turtle	Implementation Progress	Final Revision 1
Reptiles	Hawksbill sea turtle (<i>Eretmochelys imbricata</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for the Hawksbill Turtle in the U.S. Caribbean, Atlantic and Gulf of Mexico	Implementation Progress	Final Revision 1
Reptiles	Leatherback sea turtle (<i>Dermodochelys coriacea</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for U.S. Pacific Populations of the Leatherback Turtle	Implementation Progress	Final Revision 1
Reptiles	Leatherback sea turtle (<i>Dermodochelys coriacea</i>)	Wherever found	Endangered	North Florida Ecological Services Field Office	Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico	Implementation Progress	Final Revision 1
Reptiles	Kemp's ridley sea turtle (<i>Lepidochelys kempii</i>)	Wherever found	Endangered	Texas Coastal Ecological Services Field Office	Bi-National Recovery Plan for the Kemp's Ridley Sea Turtle (Lepidochelys kempii) SECOND REVISION	Implementation Progress	Final Revision 2
Reptiles	Green sea turtle (<i>Chelonia mydas</i>)	North Atlantic DPS	Threatened	North Florida Ecological Services Field Office			

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Reptiles	Loggerhead sea turtle (<u><i>Caretta caretta</i></u>)	Northwest Atlantic Ocean DPS	Threatened	North Florida Ecological Services Field Office	<u>Recovery Plan for the Northwest Atlantic Population of the Loggerhead Sea Turtle (<i>Caretta caretta</i>): Second Revision</u>	<u>Implementation Progress</u>	Final Revision 2

SAN PATRICIO COUNTY

AMPHIBIANS

	Federal Status	State Status
Black-spotted newt <i>Notophthalmus meridionalis</i> can be found in wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods; Gulf Coastal Plain south of the San Antonio River		T
Sheep frog <i>Hypopachus variolosus</i> predominantly grassland and savanna; moist sites in arid areas		T
South Texas siren (large form) <i>Siren sp 1</i> wet or sometimes wet areas, such as arroyos, canals, ditches, or even shallow depressions; aestivates in the ground during dry periods, but does require some moisture to remain; southern Texas south of Balcones Escarpment; breeds February-June		T

BIRDS

	Federal Status	State Status
American Peregrine Falcon <i>Falco peregrinus anatum</i> year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	DL	T
Arctic Peregrine Falcon <i>Falco peregrinus tundrius</i> migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	DL	
Brown Pelican <i>Pelecanus occidentalis</i> largely coastal and near shore areas, where it roosts and nests on islands and spoil banks	DL	
Eskimo Curlew <i>Numenius borealis</i> historic; nonbreeding: grasslands, pastures, plowed fields, and less frequently, marshes and mudflats	LE	E
Henslow's Sparrow <i>Ammodramus henslowii</i> wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking		
Mountain Plover <i>Charadrius montanus</i> breeding: nests on high plains or shortgrass prairie, on ground in shallow depression; nonbreeding: shortgrass plains and bare, dirt (plowed) fields; primarily insectivorous		
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species	LE	E

SAN PATRICIO COUNTY

BIRDS

		Federal Status	State Status
Peregrine Falcon	<i>Falco peregrinus</i>	DL	T
<p>both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.</p>			
Piping Plover	<i>Charadrius melodus</i>	LT	T
<p>wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats</p>			
Red Knot	<i>Calidris canutus rufa</i>	T	
<p>Red knots migrate long distances in flocks northward through the contiguous United States mainly April-June, southward July-October. A small plump-bodied, short-necked shorebird that in breeding plumage, typically held from May through August, is a distinctive and unique pottery orange color. Its bill is dark, straight and, relative to other shorebirds, short-to-medium in length. After molting in late summer, this species is in a drab gray-and-white non-breeding plumage, typically held from September through April. In the non-breeding plumage, the knot might be confused with the omnipresent Sanderling. During this plumage, look for the knot's prominent pale eyebrow and whitish flanks with dark barring. The Red Knot prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters. Primary prey items include coquina clam (<i>Donax</i> spp.) on beaches and dwarf surf clam (<i>Mulinia lateralis</i>) in bays, at least in the Laguna Madre. Wintering Range includes- Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore.</p>			
Reddish Egret	<i>Egretta rufescens</i>		T
<p>resident of the Texas Gulf Coast; brackish marshes and shallow salt ponds and tidal flats; nests on ground or in trees or bushes, on dry coastal islands in brushy thickets of yucca and prickly pear</p>			
Sennett's Hooded Oriole	<i>Icterus cucullatus sennetti</i>		
<p>often builds nests in and of Spanish moss (<i>Tillandsia unioides</i>); feeds on invertebrates, fruit, and nectar; breeding March to August</p>			
Snowy Plover	<i>Charadrius alexandrinus</i>		
<p>formerly an uncommon breeder in the Panhandle; potential migrant; winter along coast</p>			
Sooty Tern	<i>Sterna fuscata</i>		T
<p>predominately 'on the wing'; does not dive, but snatches small fish and squid with bill as it flies or hovers over water; breeding April-July</p>			
Sprague's Pipit	<i>Anthus spragueii</i>		
<p>only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.</p>			
Western Burrowing Owl	<i>Athene cunicularia hypugaea</i>		
<p>open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows</p>			

SAN PATRICIO COUNTY

BIRDS

		Federal Status	State Status
Western Snowy Plover	<i>Charadrius alexandrinus nivosus</i>		
uncommon breeder in the Panhandle; potential migrant; winter along coast			
White-faced Ibis	<i>Plegadis chihi</i>		T
prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats			
White-tailed Hawk	<i>Buteo albicaudatus</i>		T
near coast on prairies, cordgrass flats, and scrub-live oak; further inland on prairies, mesquite and oak savannas, and mixed savanna-chaparral; breeding March-May			
Whooping Crane	<i>Grus americana</i>	LE	E
potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties			
Wood Stork	<i>Mycteria americana</i>		T
forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960			

FISHES

		Federal Status	State Status
American eel	<i>Anguilla rostrata</i>		
coastal waterways below reservoirs to gulf; spawns January to February in ocean, larva move to coastal waters, metamorphose, then females move into freshwater; most aquatic habitats with access to ocean, muddy bottoms, still waters, large streams, lakes; can travel overland in wet areas; males in brackish estuaries; diet varies widely, geographically, and seasonally			
Opossum pipefish	<i>Microphis brachyurus</i>		T
brooding adults found in fresh or low salinity waters and young move or are carried into more saline waters after birth; southern coastal areas			
Smalltooth sawfish	<i>Pristis pectinata</i>	LE	E
different life history stages have different patterns of habitat use; young found very close to shore in muddy and sandy bottoms, seldom descending to depths greater than 32 ft (10 m); in sheltered bays, on shallow banks, and in estuaries or river mouths; adult sawfish are encountered in various habitat types (mangrove, reef, seagrass, and coral), in varying salinity regimes and temperatures, and at various water depths, feed on a variety of fish species and crustaceans			
Texas pipefish	<i>Syngnathus affinis</i>		
Corpus Christi Bay; seagrass beds			

SAN PATRICIO COUNTY

INSECTS

Federal Status State Status

Manfreda giant-skipper *Stallingsia maculosus*

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

MAMMALS

Federal Status State Status

Jaguarundi *Herpailurus yaguarondi* LE E

thick brushlands, near water favored; 60 to 75 day gestation, young born sometimes twice per year in March and August, elsewhere the beginning of the rainy season and end of the dry season

Ocelot *Leopardus pardalis* LE E

dense chaparral thickets; mesquite-thorn scrub and live oak mottes; avoids open areas; breeds and raises young June-November

Plains spotted skunk *Spilogale putorius interrupta*

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

Red wolf *Canis rufus* LE E

extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies

Southern yellow bat *Lasiurus ega* T

associated with trees, such as palm trees (*Sabal mexicana*) in Brownsville, which provide them with daytime roosts; insectivorous; breeding in late winter

West Indian manatee *Trichechus manatus* LE E

Gulf and bay system; opportunistic, aquatic herbivore

White-nosed coati *Nasua narica* T

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

MOLLUSKS

Federal Status State Status

Golden orb *Quadrula aurea* C T

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

SAN PATRICIO COUNTY

REPTILES

		Federal Status	State Status
Atlantic hawksbill sea turtle	<i>Eretmochelys imbricata</i>	LE	E
<p>Gulf and bay system, warm shallow waters especially in rocky marine environments, such as coral reefs and jetties, juveniles found in floating mats of sea plants; feed on sponges, jellyfish, sea urchins, molluscs, and crustaceans, nests April through November</p>			
Green sea turtle	<i>Chelonia mydas</i>	LT	T
<p>Gulf and bay system; shallow water seagrass beds, open water between feeding and nesting areas, barrier island beaches; adults are herbivorous feeding on sea grass and seaweed; juveniles are omnivorous feeding initially on marine invertebrates, then increasingly on sea grasses and seaweeds; nesting behavior extends from March to October, with peak activity in May and June</p>			
Kemp's Ridley sea turtle	<i>Lepidochelys kempii</i>	LE	E
<p>Gulf and bay system, adults stay within the shallow waters of the Gulf of Mexico; feed primarily on crabs, but also snails, clams, other crustaceans and plants, juveniles feed on sargassum and its associated fauna; nests April through August</p>			
Leatherback sea turtle	<i>Dermochelys coriacea</i>	LE	E
<p>Gulf and bay systems, and widest ranging open water reptile; omnivorous, shows a preference for jellyfish; in the US portion of their western Atlantic nesting territories, nesting season ranges from March to August</p>			
Loggerhead sea turtle	<i>Caretta caretta</i>	LT	T
<p>Gulf and bay system primarily for juveniles, adults are most pelagic of the sea turtles; omnivorous, shows a preference for mollusks, crustaceans, and coral; nests from April through November</p>			
Spot-tailed earless lizard	<i>Holbrookia lacerata</i>		
<p>central and southern Texas and adjacent Mexico; moderately open prairie-brushland; fairly flat areas free of vegetation or other obstructions, including disturbed areas; eats small invertebrates; eggs laid underground</p>			
Texas diamondback terrapin	<i>Malaclemys terrapin littoralis</i>		
<p>coastal marshes, tidal flats, coves, estuaries, and lagoons behind barrier beaches; brackish and salt water; burrows into mud when inactive; may venture into lowlands at high tide</p>			
Texas horned lizard	<i>Phrynosoma cornutum</i>		T
<p>open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September</p>			
Texas indigo snake	<i>Drymarchon melanurus erebennus</i>		T
<p>Texas south of the Guadalupe River and Balcones Escarpment; thornbush-chaparral woodlands of south Texas, in particular dense riparian corridors; can do well in suburban and irrigated croplands if not molested or indirectly poisoned; requires moist microhabitats, such as rodent burrows, for shelter</p>			
Texas scarlet snake	<i>Cemophora coccinea lineri</i>		T
<p>mixed hardwood scrub on sandy soils; feeds on reptile eggs; semi-fossorial; active April-September</p>			

SAN PATRICIO COUNTY

REPTILES

	Federal Status	State Status
Texas tortoise <i>Gopherus berlandieri</i>		T
open brush with a grass understory is preferred; open grass and bare ground are avoided; when inactive occupies shallow depressions at base of bush or cactus, sometimes in underground burrows or under objects; longevity greater than 50 years; active March-November; breeds April-November		
Timber rattlesnake <i>Crotalus horridus</i>		T
swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto		

PLANTS

	Federal Status	State Status
Arrowleaf milkvine <i>Matelea sagittifolia</i>		
GLOBAL RANK: G3 ; Most consistently encountered in thornscrub in South Texas; Perennial; Flowering March-July; Fruiting April-July & Dec?		
Coastal gay-feather <i>Liatris bracteata</i>		
Texas endemic; coastal prairie grasslands of various types, from salty prairie on low- lying somewhat saline clay loams to upland prairie on nonsaline clayey to sandy loams; flowering in fall		
Drummond's rushpea <i>Hoffmannseggia drummondii</i>		
GLOBAL RANK: G4; Open areas on sandy clay; Perennial		
Elmendorf's onion <i>Allium elmendorfi</i>		
Texas endemic; grassland openings in oak woodlands on deep, loose, well-drained sands; in Coastal Bend, on Pleistocene barrier island ridges and Holocene Sand Sheet that support live oak woodlands; to the north it occurs in post oak-black hickory-live oak woodlands over Queen City and similar Eocene formations; one anomalous specimen found on Llano Uplift in wet pockets of granitic loam; Perennial; Flowering March-April, May		
Indianola beakrush <i>Rhynchospora indianolensis</i>		
GLOBAL RANK: G3Q; Locally abundant in cattle pastures in some areas (at least during wet years), possibly becoming a management problem in such sites; Perennial; Flowering/Fruiting April-Nov		
Large selenia <i>Selenia grandis</i>		
GLOBAL RANK: G4; Occurs in seasonally wet clayey soils in open areas; Annual; Flowering Jan-April; Fruiting Feb-April		
Low spurge <i>Euphorbia peplidion</i>		
GLOBAL RANK: G3; Occurs in a variety of vernal-moist situations in a number of natural regions; Annual; Flowering Feb-April; Fruiting March-April		
Net-leaf bundleflower <i>Desmanthus reticulatus</i>		
GLOBAL RANK: G3; Mostly on clay prairies of the coastal plain of central and south Texas; Perennial; Flowering April-July; Fruiting April-Oct		

SAN PATRICIO COUNTY

PLANTS

Federal Status

State Status

Plains gumweed

Grindelia oolepis

coastal prairies on heavy clay (blackland) soils, often in depressional areas, sometimes persisting in areas where management (mowing) may maintain or mimic natural prairie disturbance regimes; 'crawfish lands'; on nearly level Victoria clay, Edroy clay, claypan, possibly Greta within Orelia fine sandy loam over the Beaumont Formation, and Harlingen clay; roadsides, railroad rights-of-ways, vacant lots in urban areas, cemeteries; flowering April-December

Refugio rain-lily

Zephyranthes refugiensis

Occurs on deep heavy black clay soils or sandy loams in swales or drainages on herbaceous grasslands or shrublands on level to rolling landscapes underlain by the Lissie Formation.

Sand Brazos mint

Brazoria arenaria

GLOBAL RANK: G3; Sandy areas in South Texas; Annual; Flowering/Fruiting March-April

South Texas spikesedge

Eleocharis austrotexana

GLOBAL RANK: G3; Occurring in miscellaneous wetlands at scattered locations on the coastal plain; Perennial; Flowering/Fruiting Sept

Texas peachbush

Prunus texana

GLOBAL RANK: G3; Occurs at scattered sites in various well drained sandy situations; deep sand, plains and sand hills, grasslands, oak woods, 0-200 m elevation; Perennial; Flowering Feb-Mar; Fruiting Apr-Jun

Texas stonecrop

Lenophyllum texanum

GLOBAL RANK: G3; Found in shrublands on clay dunes (lomas) at the mouth of the Rio Grande and on xeric calcareous rock outcrops at scattered inland sites; Perennial; Flowering/Fruiting Nov-Feb

Threeflower broomweed

Thurovia triflora

Texas endemic; near coast in sparse, low vegetation on a veneer of light colored silt or fine sand over saline clay along drier upper margins of ecotone between between salty prairies and tidal flats; further inland associated with vegetated slick spots on prairie mima mounds; flowering September-November

Tree dodder

Cuscuta exaltata

GLOBAL RANK: G3; Parasitic on various *Quercus*, *Juglans*, *Rhus*, *Vitis*, *Ulmus*, and *Diospyros* species as well as *Acacia berlandieri* and other woody plants; Annual; Flowering May-Oct; Fruiting July-Oct

Velvet spurge

Euphorbia innocua

GLOBAL RANK: G3; Open or brushy areas on coastal sands and the South Texas Sand Sheet; Perennial; Flowering Sept-April; Fruiting Nov-July

Welder machaeranthera

Psilactis heterocarpa

Texas endemic; grasslands, varying from midgrass coastal prairies, and open mesquite-huisache woodlands on nearly level, gray to dark gray clayey to silty soils; known locations mapped on Victoria clay, Edroy clay, Dacosta sandy clay loam over Beaumont and Lissie formations; flowering September-November

Wright's trichocoronis

Trichocoronis wrightii var. *wrightii*

SAN PATRICIO COUNTY

PLANTS

Federal Status

State Status

GLOBAL RANK: G4T3; Most records from Texas are historical, perhaps indicating a decline as a result of alteration of wetland habitats; Annual; Flowering Feb-Oct; Fruiting Feb-Sept