TARGETED BROWNFIELDS ASSESSMENT
PHASE I ENVIRONMENTAL
SITE ASSESSMENT (ESA)

In Compliance with ASTM E 1527-05 and EPA's All Appropriate Inquiry Standards

FORT WOLTERS TEXAS
DEPARTMENT OF CRIMINAL JUSTICE PROPERTY
16.37 ACRE TRACT
MINERAL WELLS, TX 76067

Prepared for:

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1.0 SUMMARY

Dougherty Sprague Environmental, Inc. (**dse**) performed a Phase I Environmental Site Assessment (Phase I ESA) using the guidance provided by the American Society for Testing and Materials (ASTM) E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (hereafter, ASTM E 1527-05) and the 40 Code of Federal Regulations (CFR) Part 312: *Standards and Practices for All Appropriate Inquiries (AAI)*. The objective of our services was to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, 1980) as defined by the Superfund Amendment and Reauthorization Act (SARA, 1986), and 40 CFR Part 312 (2006), and to identify and record any obvious existing or potential conditions that could cause potential environmental liability to, or restrict the use of, the Subject Property (see below). This assessment is being provided on behalf of the City of Mineral Wells through the U.S. Environmental Protection Agency (EPA) Region 6 Targeted Brownfields Assessment (TBA) program. The EPA Region 6 Brownfields Team funded the U.S. Army Corps of Engineers (USACE) Fort Worth District to execute the work that is reflected in this report. This Phase I ESA was requested as part of the City of Mineral Wells's due diligence to assess the current status of environmental conditions and compliance at the Subject Property. The City of Mineral Wells will be the end user of this report. This Phase I ESA was conducted to identify recognized environmental conditions (RECs) on the Subject Property. On August 27, 2010, **dse** and the USACE entered into contract for the proposed assessment as outlined in our Contract No.W9126G-10-P-0281**.** The scope of services was proposed on April 12, 2010 to the USACE. Known items not in strict conformance with these standards are noted in **Section 2.4** of the report.

dse performed a Phase I ESA of the former Fort Wolters Texas Department of Criminal Justice Property, located at the intersection of Cross Post Road and Grant Road in Mineral Wells, Parker County, Texas 76067 (Subject Property) for the City of Mineral Wells. The site consists of 16.37 acres of land improved with eight vacant buildings located at Latitude 32° 50' 13.2" N, Longitude -98° 3' 19.8" W, Survey Abstract T&P Rail Road Company, and is herein referenced as the "Subject Property". According to the Mineral Wells City Manager, the Subject Property is zoned "light industrial". Historical aerial photograph and topographic map review indicated that the Subject Property has been developed since at least 1959.

dse reviewed information about the history of Fort Wolters from the *History of Parker County* (Dallas: Taylor, 1980), and *Texas Almanac*s dated 1970–71, 1972–73, and 1975–76. In 1925, The Federal Government gave a grant to Brigadier General Jacob Wolters to build a training site in Mineral Wells for the mounted cavalry in Texas. Camp Wolters was designated an Infantry Replacement Center for the U.S. Army in 1941. When World War II ended in 1945, Camp Wolters was deactivated. Local businessmen purchased the land and facilities and converted them to private use. The camp was reopened in early 1951 under the authority of the United States Air Force. In 1956 the base became the Primary Helicopter Center directed by the United States Army and was re-

designated as Camp Wolters Army Base. In 1963, the camp was permanently renamed Fort Wolters and served as the home for Primary Helicopter Training during the Vietnam War.

The National Guard sold Old Camp Wolters in 1965 to the Pratt brothers, who gave the majority of the property to nonprofit groups and the Mineral Wells Independent School District. New Fort Wolters was deactivated in 1975. Part of the land and facilities became the property of the city and private businessmen; ninety acres and thirteen buildings became the Education Center of Weatherford College. A portion of the land was transferred to the state of Texas for development as part of Lake Mineral Wells State Park. Most of the Fort Wolters property is managed by the City of Mineral Wells.

According to the Mineral Wells City Manager, the Subject Property belonged to the General Services Administration (GSA), which sold it to Weatherford College. The Mineral Wells East Topographic Map, dated 1984, designates the Subject Property as "Weatherford College (West Campus)". During **dse's** site assessment, a 1976 calendar was observed on the wall in one of the buildings, indicating that the site was occupied at that time. It appears that Weatherford College used the Subject Property to teach welding and engine repair. The College returned the Subject Property to the GSA, which sold it to the Texas Department of Criminal Justice (TDCJ) in 1990. The Subject Property is currently 'deed restricted' to use as a detention site as long as it is owned by the TDCJ. The TDCJ has never made use of the Subject Property.

Based on review of aerial photographs and historical topographic maps, the Subject Property was partially developed with five structures prior to 1959, and between 1964 and 1976 all eight buildings were in place onsite. The northwest section of the Subject Property served as a motor pool for Fort Wolters. The eight buildings include three located inside the fenced 'motor pool' area (Buildings 540, 541, and 578), and five located outside the motor pool area (Buildings 551, 552, 571, 575, and 576). The buildings outside the motor pool area are thought to have been used originally as classrooms for helicopter pilots.

Building 540 was an approximately 2,975 square foot (sf) wood-frame building (**Photo #6**) located in the northwest corner of the Subject Property. The exterior siding on this building was composed of transite tiles, an asbestos-containing material (ACM). The exterior siding was noted to be in good condition. The interior walls of the wood-frame structure were constructed of drywall, which ranged in condition from fair to very poor (**Photo #8**). The east wall of the wood-frame structure contained four roll-up doors for vehicle access. The north end of the wood-frame section contained an office, parts room, and bathroom, with an overhead loft. The loft was not accessible as the stairs had collapsed. A portion of the roof on the north end had collapsed, exposing the interior to weather. The exposed areas, in particular the office, parts room, and bathroom, were in very poor condition. Construction debris and old furniture were observed in those areas. An approximately 3,250 sf steel building (**Photo #1**) is attached to the south side of the wood-frame building. Aerial photographs indicate the wood-frame building was constructed first and the steel building was added later. A portion of the north interior wall of the steel building was actually once part of the south exterior wall of the wood-frame building (**Photo #3**). Both sections of the 540 Building were constructed on concrete slab foundations. Three floor drains were observed in each section. A small oil stain was

observed on the floor in the steel building, but it was not in or around a floor drain. A small amount of trash (including pint-sized lubricant cans) was observed inside the steel building. Old office furniture was noted in both buildings. Roofing on the wood-frame building consisted of built-up tar and gravel. Roofing on the steel building consisted of corrugated panels.

Building 541 was an approximately 2,975 square foot (sf) wood-frame building (**Photo #9**) located in the northwest section of the Subject Property, east of Building 540. The exterior siding on this building was composed of transite tiles. The exterior siding was noted to be in good condition. The interior walls of the wood-frame structure were constructed of drywall, which ranged in condition from fair to very poor (**Photo #16**). The west wall of the wood-frame structure contained four roll-up doors for vehicle access. The north end of the wood-frame section contained an office, parts room, and bathroom, with an overhead loft. The loft was not accessible as the stairs had collapsed. Portions of the ceiling have collapsed into the office, parts room, and bathroom. A hole was observed high on the north wall in the parts room, which has exposed the interior to weather and resulted in further deterioration of that room. The exposed areas, in particular the office, parts room, and bathroom, were in poor condition. Other small areas of construction debris and old furniture were observed throughout. An approximately 5,500 sf steel building (**Photo #9**) is attached to the south side of the wood-frame building. Aerial photographs indicate the wood-frame building was constructed first and the steel building was added later. The north interior wall of the steel building is actually the south wall of the wood-frame building. Both sections of the 541 Building are constructed on concrete slab foundations. Three floor drains were observed in each section. Roofing on the wood-frame building consisted of built-up tar and gravel. Roofing on the steel building consisted of corrugated panels. A below-grade hydraulic lift (**Photo #11**) and associated fluid collection pit (**Photo #12**) were observed in the southeast section of the steel building. Three drums (missing bungs) and containing oil and/or related automotive chemicals (**Photos # 10 and #11**) were also observed in the steel building. Oily stains were only observed around one of the drums, and the staining was not near any floor drains.

Both Building 540 and 541 contained ceiling mounted gas-heaters, as well as 50-gallon gas water heaters in the bathrooms.

Building 578 was approximately 200 sf and constructed of corrugated steel panels on a concrete slab foundation (**Photo #20**). Interior walls, which divided the building into three small rooms, were constructed of drywall. Other than electric connections, there were no other utility systems present. Two 12,000-gallon underground storage tanks (USTs) were removed from either side (east and west) of the 578 structure in August 1991. The associated fuel pumps, pump islands, and product dispensing pipes were removed in 1994. The USACE provided documentation for both activities (provided in the Appendices). No evidence of the former tanks or dispensing system was observed at the time of **dse's** assessment. A very small pile of general trash, including a one-gallon can of paint, paint thinner, and a pint-sized container of lubricant (**Photo #21**), were noted inside the east room of the 578 building.

Building 551 was approximately 5,425 sf in size, and constructed of a wood frame on a concrete slab with a built-up tar and gravel roof (**Photo #22**). The exterior siding consisted of transite

shingles. Interior finishes consisted of drywall and 9”x9” vinyl composite tile. The building had an exterior cooling tower with interior air handlers and a gas furnace. It appeared that hot water was originally provided by a gas-fired boiler that was later replaced with a 50-gallon, household type water heater. A hole was observed in the roof in the large, central room (Photo #23) and areas of drywall were either missing or damaged throughout the building. Construction debris was observed in most rooms; however, no general or hazardous trash was observed. Small holes were observed drilled into the concrete floors along the base of the walls in the westernmost end room of the building that may have been placed to inject pesticides for termites (**Photo #24**). No similar holes were observed elsewhere in the building.

Building 552 was approximately 5,425 sf in size, and constructed of a wood frame on a concrete slab with a built-up tar and gravel roof (**Photo #25**). The exterior siding consisted of transite shingles. Interior finishes consisted of drywall and 9”x 9” vinyl composite tile (**Photo #27**), with carpet observed in one room. The building had an exterior cooling tower with interior air handlers and a gas furnace. It appeared that hot water was originally provided by a gas-fired boiler that was later replaced with a 50-gallon, household type water heater. Areas of drywall were either missing or damaged throughout the building. Construction debris was observed in most rooms; however, no general or hazardous trash or materials were observed.

Building 571 was approximately 5,600 sf in size. The structure’s roof, which consisted of asphalt shingles on tar paper over a wood deck, was completely collapsed. The building’s frame consisted of concrete masonry units (CMU). Plaster was observed applied directly to some areas of the CMU. The building was constructed on a concrete slab foundation with a 9”x 9” vinyl composite tile finish on the floor. Some acoustical ceiling tile was also noted. The materials noted were visible amid the debris; however, the structure was generally inaccessible due to the collapsed roof (**Photo #29**). No hazardous materials were observed.

Building 575 was approximately 7,200 sf in size. The building was constructed of corrugated steel panels on a concrete slab foundation (**Photo #31**). The roofing was also composed of corrugated steel panels. Interior walls were constructed of drywall. Floors were finished with 9”x 9” vinyl composite tile. Ceilings were composed of both drywall and acoustical tiles. The HVAC system consisted of a gas-heated furnace and electric-powered air conditioning with air handlers. The HVAC system had been vandalized. While the corrugated exterior walls and roof were in good condition, interior walls and the 9”x 9” floor tile were in poor condition (**Photo #32**). No hazardous materials were observed.

Building 576 was approximately 8,100 sf in size. The building was constructed of corrugated steel panels on a concrete slab foundation (**Photo #33**). The roofing was also composed of corrugated steel panels. Interior walls were constructed of drywall. Floors were finished with 9”x 9” vinyl composite tile. Ceilings were composed of both drywall and acoustical tiles. The HVAC system consisted of a gas-heated furnace and electric-powered air conditioning with air handlers. The HVAC system had been vandalized. While the corrugated exterior walls and roof were in good condition, interior walls and the 9”x 9” floor tile were in poor condition (**Photo #34**). No hazardous materials were observed.

The records review for this assessment, including the regulatory databases and standard historical sources, did not identify remediation activities at the Subject Property or in the surrounding area associated with pesticide or herbicide use or application from historical agricultural activities. Documentation provided by USACE indicates that USTs and associated fuel pumps and piping were removed from the Subject Property as well as from several nearby properties that were part of the former Fort Wolters facility; however, no product release was indicated onsite. Product releases identified in the surrounding area have been attributed to fuel storage for commercial purposes as further discussed in **Section 5.1**.

No staining, chemical containers, stressed vegetation or other indications of historical *agricultural application*, use or storage of pesticides, herbicides, or petroleum products were observed onsite or identified in interview of the Subject Property representatives. No staining or stressed vegetation from historical *agricultural application*, use or storage of pesticides, herbicides, or petroleum products was observed or reported at adjacent properties. No indications of previous disposal or storage of petroleum, pesticide, or herbicide-associated wastes from *historical agricultural* uses were observed, reported, or identified in the records review at the Subject Property or adjacent properties.

The Subject Property is located in an area that is predominantly undeveloped land mixed with commercial/light industrial use. Highway 180 is located approximately 1.68 miles south of the Subject Property. Utilities at the Subject Property are provided by the City of Mineral Wells municipal providers**.**

The following RECs, Business Environmental Risks (BER), and/or suspect RECs were identified from onsite observations, interviews, area reconnaissance observations, and research of historical and regulatory database information.

Findings of Known or Suspect Recognized Environmental Conditions

Based on the information made available to **dse** and information obtained during the assessment of the Subject Property, the following was noted:

Onsite Concerns

The Subject Property originally operated as a motor pool and classroom facility for Fort Wolters, and later as an adult education facility for Weatherford Education Center where welding and engine repair were taught. The Subject Property has been vacant for at least 20 years. Potential onsite RECs that were identified during review of historical information, interviews about the Subject Property's prior use, and **dse's** onsite reconnaissance, include:

- Four onsite USTs:

- Two former USTs were removed from near Building 578 in 1991, with associated fuel pump and piping removed in 1994.
- Two USTs at the "Tank 567" location with no documentation of removal. The "Tank 567" location is located in the northeast corner of the Subject Property. The only information found for "Tank 567" was an old 'tank list' indicating that "Tank 567" included two 7,500-gallon oil storage USTs installed in 1961 and 1964. "Removed" was hand-written across the "Tank 567" listing. However, "Tank 567" does not appear on the USACE map that designates where multiple USTs were removed from Fort Wolters in 1991. Ms. Post did not know why "Tank 567" was missing from the tank removal map. To her knowledge the two oil storage USTs were more than likely removed at the same time as the other tanks in 1991, but no definitive documentation has been discovered or provided to verify that conjecture.

- A sub-grade hydraulic lift and a possible fluid collection pit were located in Building 541.
- A few drums and/or containers of oil or related automotive chemicals were observed in Buildings 540, 541, and 578, and an open drum containing used oil filters was observed outside, immediately south of Building 541.
- Drains in the former vehicle wash area outside Building 541 may connect to sand and/or oil traps.

Offsite Concerns

The following off-site suspect RECs were discovered during the records review of regulatory databases or historical information:

- No listed LPST facilities were identified on the EDR LPST database within ½ mile. However, three LPST facilities were identified on the TCEQ LPST Database.
  - Three additional LPST sites identified on the TCEQ LPST Database:
    - Tanks 557A through E were located at Fort Wolters Building 557, approximately 220 feet north-northwest of and up-gradient to the Subject Property. Tanks at that location were removed in 1991. Review of TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.
    - Tank 566A was located at Fort Wolters Building 566, approximately 440 feet north-northwest of and up-gradient to the Subject Property. The tank at that location was removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.
    - Tanks 535A, B, C and D were located at Fort Wolters Building 535, approximately 469 feet northwest and up-gradient to cross-gradient from the

Subject Property. The tanks at that location were removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.

- No listed Registered Underground Storage Tanks (USTs) facilities were identified on EDR's UST database within ½ mile. However, review of information provided by the USACE indicated two former USTs that were previously located on the Subject Property, two USTs that may or may not still be on the Subject Property (Tank 567), and former USTs that had been located at Buildings 505, 515, 525, 535, 546, 557, 566, and 572. The tanks from all of those locations were removed in 1991, and three of the USACE sites are addressed under the LPST discussion above. Reportedly, the tanks removed by USACE were installed at Fort Wolters in the 1950s/1960s.
  - Actual tank registrations identified on the TCEQ Registered Petroleum Storage Tank Database website included:
    - BJ Chemical Services, 553 Grant Road, approximately 200 to 250 feet north-northwest of the Subject Property. Eight registered USTs that were installed in 1980, were removed from that facility in 1996 (three 10,000-gallon diesel, one 6,000-gallon gasoline, one 1,000-gallon new oil, one 550-gallon new oil, one 300-gallon used oil, and one 250-gallon used oil).
    - Fort Wolters is on the PST database (Facility ID 61461) for having two USTs installed in 1987 under the ownership of the US Department of the Army (Owner ID 38641). According to Ms. Post, this is actually a Corps of Engineers ID number. Ms. Post stated that the only tanks the USACE would have registered were those being removed. The database indicates these tanks were removed in 1991, at the same time all of the USACE tanks were removed from Fort Wolters. Although there is no address or location information, Ms. Post believes these USTs were probably those located at Building 535 as that site required additional work. The former tanks at Building 535 do appear on the LPST list and are further discussed in the LPST section above.

- Twenty-three (23) non-plotted (orphan) listings/facilities were also listed in the regulatory database search and individually reviewed. These listings/facilities included six LPSTs, three ASTs, two USTs, two TRIS, two FINDS, two Tier 2, two SWF/LF, one RCRA-Non-Generator, one IHW, one SPILLS, one ENF, and one MINES.

  Two of the LPST sites and one of the FINDS sites are discussed under the LPST and RCRA-SQG sections, respectively, above. After review, it appears that each of the nineteen (19) remaining orphan listed facilities was located outside of ASTM search distances of each relevant database.

- No additional off-site suspect RECs were discovered during the records review of regulatory databases or historical information, or during the site and area reconnaissance or interviews.

Conclusions Regarding Recognized Environmental Conditions

The opinions of the Environmental Professional regarding known or suspect RECs are presented below.

Onsite

- Review of documentation for the removal of the two USTs (1991) and associated piping, fuel pumps and dispensing islands (1994) from near Building 578 (**Photo #20**), indicates that the TCEQ issued closure for both removal activities. The documentation indicates that one of the USTs had contained diesel and the other had contained leaded gasoline. However, the closure activities occurred prior to the establishment of current regulatory closure standards; therefore, the former onsite USTs and associated features *do present* a REC to the Subject Property.
- With no documentation other than a hand-written note regarding removal of the two oil storage "Tank 567" USTs (**Photos #36 and #37**), it was not possible to determine if the tanks were or their contents were actually removed. Therefore, the "Tank #567" USTs *do present* a REC to the Subject Property.
- The sub-grade hydraulic lift and fluid collection pit in Building 541 (**Photos #11 and #12**) *do present* a potential REC to the Subject Property. Potential contents would be hydraulic oil, and pre-1965 hydraulic oil could contain PCBs.
- The drums and/or containers of oil or related automotive chemicals observed in Buildings 540 (**Photo #4**), 541 (**Photos #10, #13, and #14**), and 578 (**Photo #21**) *do present* a potential REC to the Subject Property.
- The potential presence of sand and/or oil traps connecting to the drains in the vehicle wash area (**Photo #17**) outside Building 541 and potential connection to a septic system *does present* a potential REC to the Subject Property.
- No other onsite suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

Offsite

- LPST Sites
  - Tanks 557A through E: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact, the former Fort Wolters UST site Tanks 557A through E *does present* a potential REC to the Subject Property.
  - Tank 566A: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as

6 feet below surface), the former Fort Wolters UST site Tank 566A *does present* a potential REC to the Subject Property.

- Tanks 535A, B, C and D: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site Tanks 535A, B, C and D *does present* a potential REC to the Subject Property.

- UST Sites
  - BJ Services Company: In spite of the non-leaking status and removal of the USTs more than 12 years ago, due to proximity and upgradient position relative to the Subject Property, the former USTs at the BJ Services facility *does present* a potential REC to the Subject Property.
  - Registered Fort Wolters USTs: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site (Tanks 535A, B, C and D) *does present* a potential REC to the Subject Property.
- No other off-site suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

Onsite Business Environmental Risk (BER):

No transformers were observed onsite during **dse's** site reconnaissance. Poles and electrical lines were observed, but no pole-mounted transformers were noted in connection with the poles. However, electricity is reportedly supplied to the Subject Property by Oncor, Texas Utilities' (TXU) electric delivery group.

Conclusion Regarding Onsite BER:

The opinion of the Environmental Professional regarding a known or suspect BER is presented below.

- If vegetation is cleared, it is possible that transformers may be identified. Due to the age of the facility there is a potential for PCBs to be present in the units' dielectric fluids. These units should be the responsibility of the owning utility. Potential for undiscovered transformers onsite presents a Business Environmental Risk (BER) to the Subject Property

The following ASTM non-Scope issues were not reviewed in this scope:

- Lead in Drinking Water
- Regulatory compliance
- Cultural and historical resources
- Industrial hygiene
- Health and safety
- Ecological resources
- Endangered species

- Indoor air quality
- Biological agents
- Mold

The following ASTM non-Scope issues were observed and reviewed:

Due to the age of the onsite improvements, suspect asbestos-containing building materials (ACBM) and lead-based paint (LBP) inspections were conducted. An asbestos inspection and a lead-based paint inspection were completed for the site under separate cover. Those reports will provide details of the inspections and conclusions and recommendations based on analysis results. Summaries of materials identified as containing asbestos or lead-based paint are provided below:

Asbestos: A total of 135 bulk samples were collected from the suspect asbestos containing building materials (ACBMs) identified. Eight of the 135 samples were collected for QA/QC purposes. ACBMs were identified in all eight of the buildings inspected:

Building 540 ACBM's

- 3,200 ft^2 of Exterior Wall Shingles (Transite) - 15% Chrysotile Asbestos
- 191 ft^2 of Exterior Soffit (Transite) - 15% Chrysotile Asbestos
- 8 ft of 2" diam. Pipe Insulation - 15% Amosite, 5% Chrysotile Asbestos
- 20 ft of 2"diam. Pipe Insulation Debris - 15% Amosite, 5% Chrysotile Asbestos
- 1,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3% Chrysotile Asbestos
- 366 ft^2 of Window Glazing and Caulking Compound - 2 to 3% Chrysotile Asbestos

Building 541 ACBM's

- 3,200 ft^2 of Exterior Wall Shingles (Transite) - 15% Chrysotile Asbestos
- 191 ft^2 of Exterior Soffit (Transite) - 15% Chrysotile Asbestos
- 8 ft of 2" diam. Pipe Insulation - 15% Amosite, 5% Chrysotile Asbestos
- 1,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3% Chrysotile Asbestos
- 396 ft^2 of Window Glazing and Caulking Compound - 2 to 5% Chrysotile Asbestos

Building 578 ACBM

- 485 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 5% Chrysotile Asbestos

Building 551 ACBM's

- 3,167 ft^2 of 9" x 9" Green Vinyl Composite Tile (VCT) Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 6,464 ft^2 of Exterior Wall Shingles (Transite) - 20% Chrysotile Asbestos

- 324 ft^2 of Exterior Porch Roofs (Transite) - 20% Chrysotile Asbestos
- 672 ft^2 of Panels on the Boiler Room Walls (Transite) - 20% Chrysotile Asbestos
- 200 ft of 2" diam. Pipe Insulation and Debris - 15% Amosite, 65% Chrysotile Asbestos
- 30 ft of HVAC Duct Vibration Gaskets - Inaccessible: Assumed to be ACBM's
- 80 ft^2 of Thermal System Insulation on the Furnace, Flue and Balance Tank - 15% Amosite, 75% Chrysotile Asbestos
- 64 ft^3 of Cooling Tower Internal Baffling- 75% Chrysotile Asbestos
- 13,408 ft^2 of Drywall/Joint Compound on Walls - 3% Chrysotile Asbestos
- 614 ft^2 of Window Glazing Compound - 2% Chrysotile Asbestos

<u>Building 552 ACBM's</u>

- 5,031 ft^2 of 9" x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 6,464 ft^2 of Exterior Wall Shingles (Transite) - 20% Chrysotile Asbestos
- 288 ft^2 of Exterior Porch Roofs (Transite) - 20% Chrysotile Asbestos
- 672 ft^2 of Panels on the Boiler Room Walls (Transite) - 20% Chrysotile Asbestos
- 200 ft of 2" diam. Pipe Insulation and Debris - 15% Amosite, 65% Chrysotile Asbestos
- 30 ft of HVAC Duct Vibration Gaskets - Inaccessible: Assumed to be ACBM's
- 80 ft^2 of Thermal System Insulation on the Furnace, Flue and Balance Tank - 15% Amosite, 75% Chrysotile Asbestos
- 64 ft^3 of Cooling Tower Internal baffling - 75% Chrysotile Asbestos
- 13,312 ft^2 of Drywall/Joint Compound on Walls - 3% Chrysotile Asbestos
- 315 ft^2 of Window Glazing Compound - 2% Chrysotile Asbestos

<u>Building 571 ACBM's</u>

- 5,255 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 28 ft^2 of Acoustical Ceiling Panel Debris - 5% Amosite
- 6,000 ft^2 of Roofing Debris - 5% Chrysotile Asbestos

<u>Building 575 ACBM's</u>

- 6,209 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 4,264 ft^2 of Suspended Acoustical Ceiling Panels - 5% Amosite
- 10,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 5% Chrysotile Asbestos

<u>Building 576 ACBM's</u>

- 7,167 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 10% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 15,885 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3 to 5% Chrysotile Asbestos

- 232 ft^2 of Wall Panel Mastic - 5% Chrysotile Asbestos

Lead-Based Paint: Three hundred and thirty-six (336) surface samples were taken using an XRF. One hundred and five (105) of the three hundred and thirty-six (336) surface samples analyzed contained lead in concentrations ranging from 1 mg/cm^2 to greater than 5 mg/cm^2. Tests conducted in six of the eight buildings on the Subject Property (Buildings 540, 541, 551, 552, 571, and 578) proved positive for lead-based paint on multiple surfaces/locations. In one building (Building 576) only one positive LBP sample was taken of a door frame. In one building (Building 575) no positive samples were identified.

Flood Plain: Review of the Federal Emergency management Agency (FEMA) Flood insurance Rate map (FIRM), Map Panel 4805170005C, Panel 5 of 6, dated May 17, 1990 indicated that the northern and central sections of the Subject Property are located in Zone X. Zone X is an area determined to be outside both the 100-year and 500-year flood plains. The southern and easternmost sections of the property, which are bound by Rock Creek Tributary No. 5, are located in Zone A. Zone A is an area inundated by 100-year flooding; however, no Base Flood Elevations (BFEs) have been established. None of the Subject Property buildings appear to be within the flood zone; however, the tank location (Tank 567) in the northeastern corner of the property is located within Zone A. A copy of the FEMA Flood Map is provided as **Figure 15.3.13**.

Radon: Review of the US EPA Map of Radon Zones indicated that the Subject Property is located in Zone 3, which has the lowest potential for indoor radon. A copy of the Radon Map is provided in **Section 15.4.8**.

Potential Wetlands: An approximately 15 square foot area of standing water was observed in a narrow intermittent drainage that separates the Tank #567 area from the rest of the Subject Property. No wetlands vegetation was observed in association with the standing water, and review of the National Wetlands Inventory (NWI) map for the Mineral Wells East, Texas Quadrangle (dated 1992) indicates that the drainage where the standing water was observed is not designated to be a potential wetlands area. No other onsite surface water including streams, ponds or marshy areas were observed or reported during the site reconnaissance; however, Rock Creek Tributary No. 5 forms the southern boundary of the Subject Property and extends along a portion of the eastern boundary, as well. Rock Creek Tributary was dry at the time of **dse's** site reconnaissance, and the tributary is depicted as an intermittent stream on the Mineral Wells East, TX Quadrangle Topographic Map. No wetlands vegetation was observed in association with the dry creek bed. Review of the NWI map shows the Rock Creek Tributary to be a "riverine intermittent streambed, seasonally flooded, excavated." Notation on the map indicates that "intermittent streams may not meet the definition of wetlands." A copy of the NWI map is provided as **Appendix 15.3.17.**

Other than the referenced tributary, review of historical topographic maps and other historical information did not indicate other surface water in proximity to the Subject Property.

Conclusions Regarding Non-ASTM Scope Issues

- **Asbestos:** ACBMs were identified in all eight of the buildings inspected. Conclusions regarding the ACBMs are provided in the stand alone "Targeted Brownfields Assessment Asbestos Containing Building Materials and Lead-Based Paint Inspections" report under separate cover.
- **Lead:** One hundred and five (105) of the three hundred and thirty-six (336) surface samples analyzed contained lead in concentrations ranging from 1 mg/cm^2 to greater than 5 mg/cm^2. Conclusions regarding the identified lead-based paint are provided in the stand alone "Targeted Brownfields Assessment Asbestos Containing Building Materials and Lead-Based Paint Inspections" report under separate cover.
- **Flood Plain**: Based on the absence of structures in the 100-year floodplain identified on-site, the Zone A designation does not present a current BER to the Subject Property. However, if any future construction at the Subject Property occurs in the flood zone area, adherence to FEMA flood zone construction regulations would be required.
- **Radon:** The Zone 3 radon designation does not present a BER to the Subject Property.
- **Potential Wetlands:** Although the NWI map suggests that an intermittent stream may not meet the definition of 'wetlands', without a confirmatory delineation Rock Creek Tributary No. 5 is considered to be a *potentia*l wetlands and, therefore, presents an on-site BER to the Subject Property. No activity that might disturb or impact the creek area should be conducted prior to the completion of a confirmatory wetlands delineation, and if the creek area was confirmed to be a wetlands, USACE 404 permitting may be required.

2.0 INTRODUCTION

2.1 Purpose

The purpose of the Phase I Environmental Site Assessment (Phase I ESA) is to identify reasonably observable onsite and/or adjacent potential sources of contamination, which could adversely affect the environmental quality of the Subject Property, and to ascertain the possibility of soil, surface water, or groundwater contamination that may have resulted from historical uses of the Subject Property or nearby properties. This Phase I ESA was performed to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, 1980) as defined by the Superfund Amendment and Reauthorization Act (SARA, 1986), and 40 CFR Part 312 (2006): *Standards and Practices for All Appropriate Inquiries (AAI);* that is, the practices that constitute "appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined by the American Society for Testing and Materials (ASTM) E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (hereafter, ASTM E 1527-05). This assessment is being provided on behalf of the City of Mineral Wells through the EPA Region 6 Targeted Brownfields Assessment (TBA) program. The EPA Region 6 Brownfields Team funded the USACE Fort Worth District to execute the work reflected in this report. The scope of services was proposed on August 10, 2010 to the USACE. On August 27, 2010, **dse** and the USACE entered into contract for the proposed assessment as outlined in our Contract No.W9126G-10-P-0281.

The opinions included herein are based upon the information obtained during the study and professional experience of the inspectors. In the event that other relevant information becomes available, **dse** requests the opportunity to review the information, and to modify our opinions, if warranted.

2.2 Scope-of-Services Summary

This Phase I ESA was conducted to identify Recognized Environmental Conditions (RECs) on the Subject Property. This Phase I ESA was performed in general accordance with current ASTM standards. The detailed scope of services presented in **Section 15.0**, and in the contract between **dse** and USACE. A summary of the scope of services is listed below:

- The Phase I ESA scope of services requested shall be conducted to meet ASTM E 1527-05 and the Environmental Protection Agency's (EPA's) (AAI) guidelines.

- Additional assessments performed beyond the ASTM E 1527-05 Scope reported herein included limited document review and onsite observations regarding the potential presence of wetlands, floodplains, and radon.

- An asbestos inspection and lead-based paint screening were also conducted by **dse**. Reports discussing the findings of the asbestos and lead-based paint inspections are presented under separate cover.

2.3 Significant Assumptions

This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding potential for RECs in connection with the Subject Property with reasonable limits of time and cost. It is assumed that the End User (City of Mineral Wells) has provided **dse** with any specialized knowledge or experience that is material to RECs in connection with the Subject Property, including the reason why the Subject Property may have a significantly lower purchase price than comparable properties, if applicable (ASTM E 1527-05 Section 6.5).

In general, groundwater flow direction has been interpreted based on topography in the vicinity of the Subject Property with the assumption that shallow groundwater flow will follow surface topography or other available water resources toward the south and southeast. No specific measurements of groundwater depth and flow direction have been performed at the Subject Property as part of this assessment.

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

dse has reviewed historical aerial photographs in an attempt to determine the past use of the Subject Property and adjacent properties. Although some uses can be determined, due to the quality and scale of the photographs, few onsite details are identifiable.

2.4 Limitations and Exceptions

dse has exercised reasonable efforts to accomplish the required tasks as we understand them, as permitted by the project schedule, cooperation of the interested parties, and as contained within our scope of services. In addition, **dse** has employed professional standards applicable to similar work within the industry today. There is no assurance that techniques employed in this study will necessarily disclose all contamination or other environmental issues at the Subject Property.

dse states that the scope of services that has been undertaken is believed to be appropriate for the investigation and inquiry into the current and previous uses of the Subject Property. Additionally, we also believe the effort to be consistent with good customary practice and standard of care, in an attempt to identify potentially adverse environmental conditions.

dse has attempted to repeat important portions and findings in more than one place in this report. Important information can be found in each section of the report and it is presumed that the City of Mineral Wells, or any other reader, will read and rely on the whole report in its entirety, including

Appendices. **dse** is not responsible for misinterpretations or omissions that arise from any person reading portions of the report separately from the entire report, including Appendices.

This report is an instrument of service of **dse** and includes limited research, a review of specified and reasonably ascertainable listings and a site reconnaissance to identify "recognized environmental conditions" using the ASTM E 1527-05. "Recognized environmental conditions" are defined by the ASTM as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property." The Phase I ESA was performed in accordance with generally accepted practices of the profession undertaken in similar studies at the same time and in the same geographical area. **dse** has observed a "standard of care" generally exercised by the profession under similar circumstances and conditions.

By its very nature, a Phase I ESA is a relatively modest non-invasive investigation of the conditions that exist at a given Subject Property at the time the observations are made. The goal of a Phase I ESA is principally to determine if more detailed investigations are justified. The scope of services was performed generally in conformance with ASTM E 1527-05 and AAI. This included a records review, site reconnaissance and interviews.

A records review examines various public records, such as titles, deeds, phone books, topographic and historical maps, soil surveys, and aerial photographs in an attempt to identify the land use of the Subject Property and adjacent properties through the years**.**

Site reconnaissance is the physical observation of the Subject Property. During the site reconnaissance of the Subject Property, **dse** looked for physical indications of current and past land use and any other indications of contamination in an attempt to identify visual indications that the Subject Property may have been used for the dumping of hazardous liquids, wastes, or other environmentally suspect materials. Visual signs of contamination do not necessarily indicate that extensive contamination exists. Conversely, the absence of visual signs of contamination does not ensure that the Subject Property is not contaminated.

Interviews conducted as part of this Phase I ESA were conducted by phone or in person. The persons interviewed and the information provided was deemed to be truthful and accurate unless other information identified in records review or observations indicated otherwise. Persons interviewed were deemed to be knowledgeable or responsible for knowledge of the information requested in general conformance to the ASTM E 1527-05 and AAI; however, **dse** does not and cannot represent the truthfulness, accuracy, or actual knowledge of persons interviewed.

Figures produced in this report deviate from the ASTM E 1527-05 and AAI methods as they may not be engineering scaled, but represent relative relationships of features at the Subject Property and neighboring properties.

This report is not a comprehensive site characterization or regulatory compliance audit and should not be construed as such. The opinions presented in this report are based upon findings derived from

a site reconnaissance, a review of specified records and sources and comments made by interviewees. Specifically, **dse** does not and cannot represent that the Subject Property contains no hazardous or toxic materials, products, or other latent conditions beyond that observed by our company during the site reconnaissance. Further, the services herein shall in no way be construed, designed or intended to be relied upon as legal interpretation or advice.

The Phase I ESA did not include any inquiry with respect to methane, lead in drinking water, formaldehyde, or other services or potential conditions or features not specifically identified and discussed herein. A Limited Asbestos Inspection and Limited Lead in Paint Screening were completed. These limited assessments are discussed briefly herein and provided under separate cover.
A Chain of Title was not within the scope of services; however, a limited Deed Records Search was conducted at the Parker County Clerk's Office in an attempt to determine the current and historical ownership of the Subject Property.

2.5 Special Terms and Conditions

In those instances where additional services or service enhancements are included in the report as requested or authorized by the City of Mineral Wells, those services are presented in the scope of services.

dse acknowledges, as requested by the City of Mineral Wells, that we have received no additional compensation and will not materially benefit from the development in any other way than receiving a fee for the environmental assessment.

2.6 User Reliance

Any conclusions or observations included in this report are intended for the sole use of the City of Mineral Wells and cannot be relied upon or released to other parties without written consent of the City of Mineral Wells and **dse**.

This report was prepared for the exclusive use of the City of Mineral Wells in efforts to identify potential environmental liabilities connected with the Subject Property and known to **dse** as of the issue date of this report. **dse** does not authorize its use for any purpose other than that for which it was prepared, nor is the report intended to be relied upon for any purpose by any third party at any time. The use of the Dougherty Sprague Environmental, Inc. or **dse** name, without the written permission of the City of Mineral Wells and **dse**, is prohibited. The reproduction of this report by any party, except by the City of Mineral Wells, is prohibited.

In order to understand all of the implications of this report, the entire report, including all attachments and appendices, must be read and understood. Any reader failing to read the entire report cannot hold **dse** responsible for any liabilities arising from this failure. If a reader has any questions about this report, its contents and/or conclusions, please contact **dse** at your convenience.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The "Subject Property" is comprised of approximately 16.37 acres of land located at intersection of Cross Post Road and Grant Road, Mineral Wells, Parker County, Texas. The Subject Property is situated approximately three miles northeast of downtown Mineral Wells, Texas in the T&P Railroad Company Survey Abstract 1551, and is part of a 235.825 acre tract of land identified and recorded in Vol. 469, Page 521 through 523 of the deed records of Parker County, Texas. The Subject Property is improved with eight structures that originally operated as a motor pool area and classrooms for Fort Wolters, and later were part of Weatherford College's Mineral Wells Education Center. The Subject Property is currently owned by the Texas Department of Criminal Justice and according to City of Mineral Wells City Manager, Mr. Lance Howerton, the site is 'deed restricted' to usage by that agency. Historical aerial photograph and topographic map review indicated that the Subject Property has been developed since at least 1959.

The Subject Property is located in an area that is predominantly undeveloped land mixed with commercial/light industrial development. Major Highway 180, which runs into the center of the City of Mineral Wells, is located approximately 1.68 miles to the south. Utilities at the Subject Property are provided by the City of Mineral Wells municipal providers**.**

ADDRESS:	Southeast corner of the intersection of Cross Post Road at Grant Road, Mineral Wells, Texas 76067
COUNTY:	Parker County
LEGAL DESCRIPTION:	Property ID: R000058838, TR: PT 26.690 AC; SURV: T&P RR Co.
LAND AREA:	Approximately 16.37 acres
LATITUDE (North):	32° 50' 13.2" N
LONGITUDE (West):	-98° 3' 19.8" W
APPARENT CURRENT OWNER:	Texas Department of Criminal Justice
DATE AQUIRED:	1990

An Onsite Property Map, Site Vicinity Map, and Site Location Map are provided in **Section 15.1** of this report. Additionally, a Parker County Appraisal District Map identifying the boundaries of the Subject Property is presented in **Section 15.4.6.**

3.2 Site and Vicinity General Characteristics

The Subject Property is currently vacant land improved with eight abandoned buildings and associated drives and parking areas. The southern portion of the site, which is delineated by an intermittent stream (Rock Creek Tributary No. 5), is covered by recent native grasses, weeds, brush, and trees. Surrounding properties are a mixture of undeveloped land and commercial/light industrial properties.

CURRENT USE:	Vacant
PRIOR USE:	Army training; motor pool; Weatherford College auto repair classes
CURRENT OCCUPANTS:	None

3.3 Current Use of the Property

The Subject Property is currently vacant.

3.4 Descriptions of Structures, Roads, Other Improvements on the Subject Property

The Subject Property is unfenced, vacant land with improvements consisting of eight structures that previously comprised a motor pool area and classrooms for the former Fort Wolters. The Subject Property is located within the City limits of Mineral Wells, Texas. The Subject Property is accessible via Cross Post Road on the west and Grant Road on the north. Electricity for the area is supplied by Texas Utilities Company (TXU). Natural gas for the area is supplied by Texas Gas Services. Potable water and sewage disposal for the area is supplied by the City of Mineral Wells.

3.5 Current Uses of the Adjacent Properties

Adjacent properties were visually observed from public access right-of-ways and/or from the legal boundaries of the Subject Property. Visual assessment of adjacent property use, as well as the potential for environmental conditions was conducted during the site reconnaissance. Additionally, **dse** conducted an area reconnaissance of approximately one-half mile around the Subject Property on publicly accessible roads to identify and observe nearby and surrounding property uses. The area reconnaissance was conducted on September 21, 2010.

The Subject Property is located in an area of undeveloped land and commercial/light industrial use. Adjacent property and nearby descriptions are as follows:

- **North-Northwest:** The Subject Property is bordered to the north by Grant Road. Immediately across Grant Road are: Watkins Metal Fabrication (543-548 Grant Road); B.J. Services (oil & gas field services) (553-560 Grant Road); to the northwest is ATP (a flight school) (562 Grant Road); and to the northeast is Ventamatic (manufacturer of fans, vents, and louvers) (542-555 Grant Road).

- **South:** The Subject Property is bound on its southern and eastern perimeters by Rock Creek Tributary No. 5. Beyond the creek to the south, southeast, and southwest is undeveloped land.

- **East:** The Subject Property is bordered to the east by undeveloped land.

- **West:** The Subject Property is bordered to the west by Cross Post Road. Farther west is undeveloped land. To the west, across from the northwest corner of the Subject Property,

is a paved lot that was not in use at the time of the area reconnaissance. Goats were noted grazing on the undeveloped land and inside the fenced area of the paved lot.

Except as discussed above, no current adjacent land uses were identified as RECs to the Subject Property. Historical uses of adjacent and surrounding properties are discussed in **Section 5.5**.

4.0 USER PROVIDED INFORMATION

The User has the obligation to perform the following tasks and to provide **dse** with the following information that will assist in identifying the possibility of RECs in connection with the Subject Property. These tasks do not require the technical expertise of an environmental professional, but provides information that may be material to identifying RECs. This information was not supplied to **dse** prior to the site reconnaissance.

During this assessment, **dse** interviewed Mr. Lance Howerton, City Manager for the City of Mineral Wells, who was identified as the person most knowledgeable of the Subject Property.

4.1 Title Records

Review of a title report was not included in the scope of services or provided by the City of Mineral Wells. Limited research conducted through the Parker County Appraisal District identified a legal description for the Subject Property, and metes and bounds were provided by the Parker County Clerk's Office (PCCO). A copy of the metes and bounds are provided in **Section 15.4.6**. Deed records were not available beyond information provided by the USACE because the PCCO maintains its records according to the date of purchase. **dse** was not provided with dates of purchase prior to the 1990 date of purchase by the Texas Department of Criminal Justice.

4.2 Environmental Liens or Activity and Use Limitations

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

Records of environmental liens and AULs for the Subject Property were not provided by the City of Mineral Wells. According to Mr. Howerton, the City of Mineral Wells has no actual knowledge of environmental liens or AULs encumbering the Subject Property or in connection with the Subject Property.

Environmental Data Resources, Inc. (EDR) was subcontracted to provide regulatory information from the most current available state and federal agencies' databases for **dse's** review regarding the Subject Property. No evidence of environmental liens or AULs at the subject Property was identified by EDR. According to the EDR database report, the Subject Property is not identified in the Brownfields database. A copy of the EDR report can be found in **Section 15.4.1**.

4.3 Specialized Knowledge

The City of Mineral Wells did not report specialized knowledge or experience that is material to RECs in connection with the Subject Property.

4.4 Commonly Known or Reasonably Ascertainable Information

The City of Mineral Wells reported no commonly known or reasonable ascertainable information within the local community about the Subject Property that is material to determining RECs.

4.5 Valuation Reduction for Environmental Issues

The City of Mineral Wells reported no reduction in the property value, purchase, or lease price of the Subject Property. Furthermore, the City of Mineral Wells did not report that the Subject Property has been devalued, compared to comparable properties, as a result of environmental conditions at the Subject Property or surrounding properties.

4.6 Owner, Property Manager, and Occupant Information

The Subject Property was owned and managed by the Texas Department of Criminal Justice during this assessment; however, no knowledgeable person with that agency was identified for interview. Mr. Howerton was interviewed regarding property ownership and use. He indicated that the Subject property was originally owned and used by the military as a motor pool and training site for Fort Wolters. Later it was owned by the GSA and sold to Weatherford College in the early 1970s. Weatherford College used the site for classrooms and for training in engine repair. The College returned the property to the GSA in the mid-1980s. The Subject Property was vacant until the TDCJ purchased it from the GSA in 1990. However, TDCJ has never used the property. Currently, no management or maintenance activities are reportedly performed at the site. The interview documentation can be found in **Section 7.1**.

The improvements at the Subject Property were unoccupied during this assessment and have been since the late 1980s. **dse** contacted Ms. Andra Cantrell, V.P. of Finance with Weatherford College (817-598-6260), to inquire about the use of the Subject Property during the time it was occupied by a segment of the College's Mineral Wells Education Center. However, Ms. Cantrell had no personal knowledge of prior site usage, nor was she aware of where documentation from that period could be found. Ms. Cantrell stated that there were no personnel still at the College that had been associated with the Subject Property when the College owned it. She stated that the Subject Property had been turned back to the GSA in the mid-1980s

4.7 Reason for Performing Phase I

This Phase I ESA was requested by the City of Mineral Wells as part of their due diligence to assess the current status of environmental conditions and compliance at the Subject Property. This Phase I

ESA was conducted to identify RECs on the Subject Property and to provide information for a Target Brownfields Assessment.

Furthermore, the assessment was conducted for the City of Mineral Wells to satisfy one of the requirements to qualify for limited liability protection (LLP) under 40 CFR Part 312. The purpose of seeking LLP by means of this assessment is in regards to the *innocent landowner defense* as outlined in ASTM E 1527-05 and 40 CFR Part 312.

4.8 Other

There were no other modifications to the scope of services by either the City of Mineral Wells or by **dse** for special circumstances. No prior reports or documentation for the Subject Property, other than a site plan, were provided for review. Additional services provided are discussed in **Section 11.0** of this report.

5.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Subject Property. This records review included obtaining various publicly available documents and a regulatory database review compiled by EDR, inquiries to local and state entities, and review of this information to identify past or current uses or activities that may contribute to or cause impact to the Subject Property from a release of hazardous materials or petroleum products. Documents used in the records review are listed in **Section 12.0** and appended in **Section 15.0.**

5.1 Standard Environmental Record Sources

The approximate minimum search distance (AMSD), as recommended in the ASTM E 1527-05 Section 8.2, for assessment of the Subject Property vicinity is noted after each database listed below. The distance from the Subject Property to a listed facility represents the *approximate* distance from the nearest Subject Property boundary line to an identified facility's address as it was observed to be during the site and area reconnaissance, as well as from review of recent aerial photographs. However, the listed distance may not represent the *actual* distance from the boundary of the Subject Property to the boundary of the listed facility.

EDR was subcontracted to provide regulatory information from the most current available state and federal agency databases for **dse**'s review regarding the Subject Property. Excerpts of this database report can be found in **Section 15.4.1**. The updates for these databases are made at the discretion of the corresponding state or federal agency and they reflect the most current information available at the time of the inquiry. The database listings are in conformance with the ASTM E 1527-05 standards and AAI guidelines. EDR also provided a radius map showing facilities listed in the databases that are in or around the Subject Property (see **Section 15.4.1**). This information was reviewed by **dse** in order to identify and evaluate documented hazardous material and/or waste activities within the AMSD, as specified in ASTM E 1527-05 and AAI.

Note that the facilities listed in the regulatory database review were plotted by EDR based on latitude and longitude reports or address information compiled by governmental agencies maintaining the databases. Furthermore, **dse** requested an increased distance in the regulatory database review to identify operations of facilities in proximity to the Subject Property, which may have plotted beyond the AMSD due to latitude and longitude reports or address information.

The regulatory database review conducted by **dse** included information derived from the following databases:

<u>Federal Databases</u>

National Priorities List/Superfund, EPA (NPL)
No listed facilities were identified within 1 mile.
Database current as of July 2, 2010.

Federal Delisted National Priorities List (NPL) Site List
No listed facilities were identified within 1 mile.
Database current as of July 2, 2010.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
No listed facilities were identified within ½ mile.
Database current as of January 29, 2010.

CERCLIS No Further Remedial Action Planned (CERCLIS-NFRAP)
No listed facilities were identified within ½ mile.
Database current as of June 23, 2009.

Corrective Action Report (CORRACTS)
No listed facilities were identified within ½ mile.
Database current as of May 25, 2010.

Resource Conservation and Recovery Act (RCRA) – Transport, Storage and Disposal Facilities (TSDF)
No listed facilities were identified within ½ mile.
Database current as of February 17, 2010.

RCRA – Large Quantity Generator (LQG)
No facilities were identified within ¼ mile.
Database current as of February 17, 2010.

RCRA – Small Quantity Generator (SQG)
One SQG facility and one Non-generator facility was identified within ¼ mile.

- BJ Services Mineral Wells, located at 555 Grant Road, is approximately 450 feet (corrected from the EDR database distance of 829 feet) to the north-northwest of the Subject Property, across Grant Road. Building 555 is approximately 600 feet from the Subject Property. The facility has operated as a SQG since at least 1984. One violation was listed for the facility in 1986 pertaining to a 'state statue or regulation', and compliance was achieved in 1994. No other violations were listed in the database. This facility also appears on the FINDS database due to its status as a RCRA-generator site. No exterior storage of hazardous materials or wastes was observed during **dse's** area reconnaissance.

Based on distance, the 'small quantity' generator status, no recent record of violations, and no visual evidence of exterior storage, this facility's RCRA listing *does not* present a potential REC to the Subject Property.

- Mineral Wells Shop at 548 Grant Road, is approximately 100 feet east of the BJ Services site, and is located approximately 600 feet north of the Subject Property's northwest corner. Mineral Wells Shop is listed as a RCRA-non-generator. This facility was previously listed as a SQG for the years 1989, 2000, 2002, 2005, and 2007. According to the database, the facility does not currently generate hazardous

waste. The facility has no record of violations. This facility also appears on the FINDS database due to its status as a prior RCRA-generator site.

Based on the facility's non-generator and non-violator status, this facility *does not* present a potential REC to the Subject Property.

Database current as of February 17, 2010.

RCRA – Conditionally Exempt Small Quantity Generator (CESQG)
No listed facilities were identified within ¼ mile.
Database current as of February 17, 2010.

Emergency Response Notification System (ERNS)
No listed releases were identified onsite or immediately adjacent to the Subject Property.
Database current as of July 9, 2010.

Federal Institutional Control / Engineering Control Facilities (Federal IC/EC)
No listed facilities were identified within ½ mile.
Database current as of December 20, 2009.

Formerly Used Defense Sites (FUDS)
The Subject Property and surrounding properties were identified on the former Fort Wolters site, which is listed as a FUDS.

- Fort Wolters consisted of 7,960.31 acres and traces its history to World War II Camp Wolters. Improvements included an airfield, hangars, barracks, a hospital, roads, ranges, and other support facilities. Current use is primarily industrial with a mix of residential, recreational, and wildlife refuge. Projects include containerized hazardous, toxic, and radioactive waste, and potential unexploded ordinance contamination.

Based on review of a 1993 report that indicates activities of environmental concern at Fort Wolters did not occur in proximity to the Subject Property, the Subject Property's location on the FUDS site *does not* present a potential REC to the Subject Property.
Database current as of December 31, 2008

<u>State of Texas Databases</u>

State Superfund Registry (SHWS)
No listed facilities were identified within ½ mile.
Database current to March 1, 2010

Solid Waste Facilities/Landfill Facilities (SWF/LF)
No listed facilities were identified within ½ mile.
Database current to May 7, 2010.

Leaking Petroleum Storage Tanks (LPSTs)
No listed facilities were identified on this database within ½ mile. However, one LPST facility located within ½ mile appears on the Orphan List.

- Adjutant Generals Fort Wolters, 1180 Pickett, was located approximately 1,962 feet west-southwest of and cross-gradient to the Subject Property. Tanks at that location were removed in the early 1990s. Review of TCEQ LPST data for the location indicates that groundwater was not impacted. The case was closed. Based on distance, gradient, soil only impact, and closed case status, the Adjutant Generals Fort Wolters facility *does not* present a potential REC to the Subject Property.

Six additional LPST sites were identified on the TCEQ Leaking Petroleum Storage Tank Database website:

- Tanks 557A through E were located at Fort Wolters Building 557, approximately 220 feet north-northwest of and up-gradient to the Subject Property. Tanks at that location were removed in the early 1990s. Review of TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed. In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact, this former Fort Wolters UST site *does* present a potential REC to the Subject Property.
- Tank 566A was located at Fort Wolters Building 566, approximately 440 feet north-northwest of and up-gradient to the Subject Property. The tank at that location was removed in the early 1990s. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed. In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 6 feet below surface), this former Fort Wolters UST site *does* present a potential REC to the Subject Property.
- Tanks 535A, B, C and D were located at Fort Wolters Building 535, approximately 469 feet northwest and up-gradient to cross-gradient from the Subject Property. The tanks at that location were removed in the early 1990s. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed. In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), this former Fort Wolters UST site *does* present a potential REC to the Subject Property.
- Tank 515A was located at Fort Wolters Building 515, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property. The tank at that location was removed in the early 1990s. Review of the TCEQ LPST data for the location indicates that groundwater was not impacted. The case was closed. Based on

distance, cross-gradient position relative to the Subject Property, non-groundwater impact, and closed case status, this former Fort Wolters UST site *does not* present a potential REC to the Subject Property.

- Tank 505A was located at Fort Wolters Building 505 (1180 Pickett Street), approximately 1,962 feet west-southwest of and cross-gradient to the Subject Property. The tank at that location was removed in the early 1990s. Review of the TCEQ LPST data for the location indicates that assessment was incomplete; however, there were no threats or impacts to receptors. The case was closed. Based on distance, cross-gradient position relative to the Subject Property, and closed case status, this former Fort Wolters UST site *does not* present a potential REC to the Subject Property.
- J-W Operating, 516 Grant Road, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property, had two USTs that were installed in 1979. The USTs were removed in 1991. The facility appears on the LPST database. However, based on distance, cross-gradient position to the Subject Property, and soil only impact, the former USTs at J-W Operating *do not* present a potential REC to the Subject Property.

Database current to July 7, 2010.

Registered Underground Storage Tanks (USTs)

No listed facilities were identified on this database within ½ mile. However, review of information provided by the USACE indicated two former USTs that were previously located on the Subject Property, and former USTs that had been located at Buildings 505, 515, 525, 535, 546, 557, 566, and 572. Five of the sites are addressed under the LPST discussion above. According to USACE representative Ms. Beverly Post, all of the tanks listed at the above addresses were removed in 1991, with piping removal and additional studies completed in 1994. To her knowledge, the tanks removed by USACE were installed at Fort Wolters in the 1950s/1960s.

Actual tank registrations identified on the TCEQ Registered Petroleum Storage Tank Database website included:

- BJ Chemical Services, 553 Grant Road, approximately 200 to 250 feet north-northwest of the Subject Property. Eight registered USTs that were installed in 1980, were removed from that facility in 1996 (three 10,000-gallon diesel, one 6,000-gallon gasoline, one 1,000-gallon new oil, one 550-gallon new oil, one 300-gallon used oil, and one 250-gallon used oil). In spite of the non-leaking status and removal of the USTs more than 12 years ago, due to proximity and upgradient position relative the Subject Property, the former presence of USTs at the BJ Chemical Services facility *does* present a potential REC to the Subject Property.
- J-W Operating, 516 Grant Road, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property, had two USTs that were installed in 1979. The USTs were removed in 1991. The facility appears on the LPST database. However, based on distance, cross-gradient position to the Subject Property, and soil only

impact, the former USTs at J-W Operating *do not* present a potential REC to the Subject Property.

- Fort Wolters is on the PST database (Facility ID 61461) for having two USTs installed in 1987 under the ownership of the US Department of the Army (Owner ID 38641). According to Ms. Post, this actually a Corps of Engineers ID number. Ms. Post stated that the only tanks the USACE would have registered were those being removed. The database indicates these tanks were removed in 1991, at the same time all of the USACE tanks were removed from Fort Wolters. Although there is no address or location information, Ms. Post believes these USTs were probably those at Building 535 as that site required additional work. The former tanks at Building 535 do appear on the LPST list and are further discussed in the LPST section above. In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), this former Fort Wolters UST site *does* present a potential REC to the Subject Property.

- "Tank 567" does not appear on the map designating USTs that were removed from the Subject Property in 1991. However, it is on the 'site plan' map provided to **dse** by the USACE, which shows building locations on the Subject Property and their individual addresses. Tank 567 is shown as being located in the northeast corner of the Subject Property. Ms. Post identified a reference to Tank 567 on an old tank list that indicated Tank 567 referred to two 7,500-gallon oil storage tanks that were installed in 1961 and 1964, respectively. "Removed" was hand-written across the 567 Tank listing. Ms. Post was not certain why Tank 567 was not shown on the map showing tanks that were removed in 1991. The 567 tanks were installed at around the same time as many of the other UST's formerly located on the Fort Wolters property, and to her knowledge they were more than likely removed at the same time as the other tanks in 1991. However, there is no documentation other than the hand-written note on the old tank list. Due to lack of verifying documentation, the Tank 567 listing *does* present a potential REC to the Subject Property.

Database current to July 7, 2010.

Fort Wolters PST & LPST Sites						
Bldg. #	**Tank ID#**	**LPST (Yes or No) ID Number Media Impacted**	**Case Closure Date**	**Distance (Approx only)**	**Direction/ Gradient**	**Responsible Party**
Potential Recognized Environmental Condition (REC) Sites						
567	None	No information	N/A	Onsite	N/A	USACE
578	578E & 278W (IDs used in tank removal report dated 1991)	No (removed in 1991)		Onsite		USACE
546	546 A,B,C & D	No (removed in 1991)		200 feet	N-NW /Up	USACE

553	8 USTs	No (removed in 1996)		200-220 feet	N-NW/ Up	BJ Services Company
557	557 A thru E	Yes/ 109490 GW impact* (removed in 1991)	2/27/1998	220 feet	N-NW/ Up	USACE
566	556A	Yes/ 109489 GW impact* (removed in 1991)	3/3/1998	440 feet	N-NW/ Up	USACE
572	572A	No (removed in 1991)		616 feet	N-NW/ Up	USACE
535	535A,B,C & D	Yes/ 109486 GW impact* (removed in 1991)	2/26/2002	469 feet	NW/ Up to Cross	USACE
Potential Business Environmental Risk (BER) Sites						
525	525A,B & C	No (removed in 1991)		1,158 feet	W/ Cross	
515	515A	Yes/ 109487 Soil impact only (removed in 1991)	2/27/1998	1,490 feet	W-SW/ Cross	USACE
516	2 USTs	Yes/ 103420 Soil impact only (removed in 1991)	12/18/1995	1,490 feet	W-SW/ Cross	JW Operating Co.
505	505A	Yes/ 112843 Assessment incomplete* (removed in 1991)	1/10/2002	1,962 feet	W-SW/ Cross	USACE

*no apparent impact to receptors

Voluntary Cleanup Program (VCP)
No listed facilities were identified within ½ mile.
Database current to June 4, 2010

U. S. Brownfields
No listed facilities were identified within ½ mile.
Database current to June 24, 2010.

Spills
No listed releases were identified onsite or immediately adjacent to the Subject Property. However, one SPILLS site was reported on the Orphan List that was located adjacent to the north across Grant Road:

- Western Co of North America, 553 Grant Road, approximately 200 feet north-northwest and up-gradient to the Subject Property, reported a spill of 'corrosive water' in 1989. The amount of release was not reported; however, it was classified as a 'minor' release. Based on the 21 years since the spill was reported and the 'minor' release classification, the SPILLS listing for the 553 Grant Road site *does not* present a potential REC to the Subject Property.

Database current as of June 4, 2010.

Other (Non-ASTM) Databases Searched With No Sites Found in the Search Area
US CDL – Clandestine Drug Laboratories
Tribal Lands
Local Land Records/Liens 2
RCRA-No Longer Regulated (NLR)

Twenty-three (23) non-plotted (orphan) listings/facilities were also listed in the regulatory database search and individually reviewed. These listings/facilities included six LPSTs, three ASTs, two USTs, two TRIS, two FINDS, two Tier 2, two SWF/LF, one RCRA-Non-Generator, one IHW, one SPILLS, one ENF, and one MINES.

Two of the LPST sites, the SPILLS site, and one of the FINDS sites are discussed under the LPST, SPILLS, and RCRA-SQG sections, respectively, above. After review, it appears that each of the nineteen (19) remaining orphan listed facilities was located outside of ASTM search distances of each relevant database.

5.2 Additional Environmental Record Sources

Interviews or contact with local government officials are discussed in **Section 7.0** of this report.

5.3 Physical Setting Source(s)

The Subject Property is an approximate 16.37 acres tract of land located in the Cross Post Road/Grant Road in Mineral Wells, Parker County, Texas (32° 50' 13.2" N, -98° 3' 19.8" W). The Subject Property is situated approximately 3 miles northeast of the City of Mineral Wells, Texas in the T&P Railroad Company Survey Abstract 1551, and is part of a 235.825 acre tract of land identified and recorded in Vol. 469, Page 521 through 523 of the Deed records of Parker County, Texas. The Subject Property is improved with eight structures, three of which originally operated as a motor pool area, and the remaining five operated as classrooms for Fort Wolters. The buildings were later part of Weatherford College's Mineral Wells Education Center. The Subject Property is currently vacant. The southern and southeastern sections of the site are undeveloped and covered with trees, native grass and weeds. A former tank site is located in the northeastern corner of the

Subject Property. Rock Creek Tributary No. 5 bounds the southern and eastern perimeters. The Subject Property is accessed from Grant Road on the north and Cross Post Road on the west.

The "Mineral Wells East, Texas Quadrangle 7.5' Series topographic map", dated 1984 and prepared by the USGS, was obtained from EDR and used to determine the physical setting of the Subject Property. Review of the topographic map indicates that groundwater flow beneath the Subject Property is likely to drain to the south toward the tributary creek. A narrow drainage in the northeast section divides the former tank location from the rest of the Subject Property. Other published information utilized in conducting this assessment of the physical setting of the Subject Property and surrounding area is listed in **Section 12.0** and discussed below.

A records review for identifying surface and subsurface drainage and topography is included in a Phase I ESA since this evaluation can provide an indication of the pathways of potential contaminants. This is not, however, a geotechnical/engineering evaluation. No onsite measurements or subsurface investigation was performed as part of this assessment.

5.3.1 Topography

The "Mineral Wells East, TX Quadrangle" USGS 7.5 Series Topographic Map, dated 1984, depicting the Subject Property and surrounding areas was reviewed and is summarized below. A copy of this Topographic Map is provided in **Section 15.1**.

According to the surface elevation shown on the Topographic Map, the Subject Property ranges from approximately 870 to 880 feet above Mean Sea Level (MSL), with the slope to the south and southeast toward Rock Creek Tributary No. 5. This was visually verified during the site reconnaissance of the Subject Property. Surface water flow from storm water runoff at the Subject Property is expected to generally flow south to southeast. Based on review of the Topographic Map and site reconnaissance observations, the surrounding area generally slopes towards the south. Localized storm water runoff is expected to predominantly flow south.

Review of the Topographic Map did not indicate onsite surface water; however, **dse** observed a small amount of standing water located in a narrow drainage on the northeastern corner of the Subject Property that separated the Tank #567 location from the rest of the site. Otherwise, no other surface water, including ponds, streams, or marshy areas, was observed or reported. An intermittent tributary stream, Rock Creek Tributary No. 5, bound the southern and eastern perimeters of the Subject Property. It was observed to be dry at the time of **dse's** site reconnaissance. No surface water, including ponds, streams, or marshy areas, was observed or reported on adjacent properties.

5.3.2 Geology

According to the *Physiographic Map of Texas*, prepared by the Bureau of Economic Geology, dated 1996, the Subject Property is located in the southeastern corner of the West Texas Rolling Prairies section of the North Central Plains physiographic province. The topography of the Rolling Prairies generally consists of a gently sloping plain dissected by well established systems of drainage,

consisting of wide valleys bounded by abrupt embankments. Review of *Preliminary Assessment Report for Fort Jacob F. Wolters, Installation 48555, Mineral Wells, Texas*, dated 1993, prepared by Argonne National Laboratory for USACE, and the USGS *Ground Water Atlas of the United States Oklahoma, Texas HA-730-E*, dated 1996, indicates that the underlying geologic formation in the Fort Wolters area is an outcrop of the Strawn group, of middle Pennsylvanian age. The Strawn Formation consists principally of sharp-rained, moderately hard, evenly-textured sandstones, alternating with beds of blue clays. Conglomerates and shares are found in several parts of it; limestones are rare. The Subject Property is located on the outcrop of the Mineral Wells Formation of the Pennsylvania, a segment of the Strawn group. This Formation is composed of many units consisting of predominantly shale with some sandstone, conglomerate, and limestone. The units include: Turkey Creek Sandstone, sandstone (ss2), Dog Bend Limestone, Lake Pinto Sandstone, Village Bend Limestone, Capps Limestone, sandstone (ss1), and Hog Mountain Sandstone. These strata are described as:

- Turkey Creek Sandstone, coarse-grained, locally chert conglomerate, cross-bedded, massive, reddish brown; thickness 10-50 feet, feathers out abruptly southwestward.
- Sandstone (ss2), fine to coarse grained, thin bedded to massive, brown; thickness 10-12 feet, feathers out southwestward.
- Dog Bend Limestone, one to four discontinuous limestone units separated by shale; limestone, fine grained, slightly argillaceous, light gray, individual units 1-3 feet thick, locally grades to sandstone in southern area.
- Lake Pinto Sandstone, medium to fine grained, locally conglomeratic, thick bedded, brown, prominent Near Mineral Wells, less prominent southward; thickness 20-50 feet.
- Village Bend Limestone, fine grained, locally sandy, thick-bedded, yellow gray, weathers to small blocks, marine megafossils, consists of several laterally discontinuous limestone lentils, locally where limestone is absent, calcareous sandstone occurs in this stratigraphic position; thickness 2-3 feet.
- Capps Limestone, fine to medium grained, wavy bedded, crinoid columnals, fusulinids locally abundant; thickness up to 8 feet, thickness southwestward, feathers out northeastward.
- Sandstone (ss1), locally conglomeratic, crops out Near Mineral Wells; thickness about 30 feet.
- Hog Mountain Sandstone, fine to medium grained, thick bedded to flaggy, brown, occurs Near Mineral Wells; thickness about 25 feet. Thickness of Mineral Wells Formation 272-700 feet, maximum thickness Near Mineral Wells.

5.3.3 Soils

According the NRCS Web Soil Survey (http://websoilsurvey.nrcs.usda.gov) for Parker County, Texas, Survey Area Data: Version 8, October 26, 2009, comprised on data compiled in 1995, the Subject Property is located on four soil types: Truce soil, with slopes ranging from 1-3 percent over most of the site, and from 2-5 percent in the northeastern section; Bonti soil (as part of a Truce complex), 1-3

percent slopes; and the Santo and Bunyan soil complex, 0 to 1 percent slopes. A Soil Survey Map is provided as **Figure 15.3.14A**.

The Truce soils are a fine, sandy loam, stony on some slopes. These deep soils overlie claystone bedrock that formed in residuum from claystone, and are found on gently sloping to steep, convex ridges. Truce soils are well drained and slowly permeable. These soils reach a depth of at least 60 inches and range from slightly acid to moderately alkaline. Depth to groundwater is greater than six feet below ground surface (bgs).

The Bonti very fine sandy loam soil is a very stony, moderately deep and well drained soil over sandstone bedrock that formed in residuum from interbedded sandstone and clayey materials. This is a moderately permeable soil. The soil reaches a depth of about 30 to 32 inches and is strongly to moderately acidic. Depth to groundwater is greater than six feet bgs.

The Santo fine sandy loam consists of deep, well drained, moderately rapidly permeable soils that formed in calcareous alluvium on flood plains. This moderately alkaline soil reaches a depth of at least 80 inches. Depth to ground water is greater than six feet bgs.

The Bunyan fine sandy loam consists of very deep, well drained, moderately permeable soils that formed in stratified loamy alluvium. These soils are on nearly level bottomlands, generally in cultivated fields. The Bunyan soil, which reaches a depth of approximately 62 inches, ranges from neutral to slightly acid to slightly alkaline to moderately alkaline. This soil is rarely to frequently flooded for periods of short duration. Depth to groundwater is greater than six feet bgs.

5.3.4 Hydrology/Floodplain Information

According to the FEMA *Flood Insurance Rate Map (FIRM)*, Map Number FM480517 0005C for Mineral Wells, Texas, Palo Pinto and Parker Counties, Texas, revised May 17, 1990, the northern, western, and central sections of the Subject Property are located in Zone X, areas designated as outside the 100-year and 500-year floodplains. The southern and eastern sections of the Subject Property, where it is bound by Rock Creek Tributary No. 5, are located in Zone A. Zone A are areas subject to 100-year flooding, but for which base flood elevations have not been determined. Adjacent properties to the north, east, south, and portions to the west are also within Zone A. A copy of the FEMA Flood Map is provided as **Figure 15.3.13**.

Sloping of the onsite topography is generally to the south and southeast. Although no site-specific hydrogeologic data is available, it is assumed that groundwater and surface water flow would follow the Subject Property's main topography to the south and southeast in the general direction of Rock Creek Tributary No. 5, which bounds the southern and eastern perimeters of the Subject Property.

The city's municipal water source consists of surface water drawn from Lake Palo Pinto, Palo Pinto Creek, and Hilltop Presedimentation Reservoir. More detailed information on the City's 2009 Water Quality Report is presented in **Appendix 15.4.10.**

5.3.5 Regional Groundwater Conditions

Review of the U.S. Geological Survey's (USGS) *Ground Water Atlas of the United States Oklahoma and Texas, HA-730-E,* dated 1996, and *Petroleum Product Piping Removal and Site Assessment, Fort Wolters, Site No. 578, Mineral Wells, Texas,* dated January 8, 1996, prepared for the USACE by WC Environmental Group, indicates that the major groundwater aquifer in the North Central Texas area is the Trinity Group of the lower Cretaceous. The Trinity outcrops to the east of the Subject Property in Parker County, and dips east-southeast. This aquifer produces useable quality groundwater and it includes the Paluxy (Antlers), Glen Rose, and Travis Peak (Twin Mountains) Formations. Total thickness of the aquifer ranges from approximately 230 to 1200 feet. The Twin Mountains, which is the principal water-bearing formation in the area, is composed of conglomerate, sand, and shale. It yields moderate to large amounts of water. The closest water wells identified within a few miles of the Subject Property access the Twin Mountains Formation. However, the City of Mineral Wells, which provides water to the Fort Wolters industrial park, obtains its municipal drinking water from surface-water sources only.

5.4 Historical Use Information on the Subject Property

5.4.1 From First Development

dse reviewed information provided by: the Mineral Wells City Manager; the *Petroleum Product Piping Removal and Site Assessment, Fort Wolters, Site No. 578, Mineral Wells, Texas* report; the *Preliminary Assessment Report for Fort Jacob F. Wolters*; the "History of Mineral Wells" from the Mineral Wells Historical Society on the Texas Online Handbook website; the *History of Parker County* (Dallas: Taylor, 1980), and *Texas Almanacs* dated 1970–71, 1972–73, and 1975–76.

In 1925, Washington gave a grant to Brigadier General Jacob Wolters to build a training site in Mineral Wells for the mounted cavalry in Texas. Camp Wolters was designated an Infantry Replacement Center for the U.S. Army in 1941. When the war ended in 1945, Camp Wolters was deactivated. Local businessmen purchased the land and facilities and converted them to private use. The camp was reopened in early 1951 under the authority of the United States Air Force. In 1956 the base became the Primary Helicopter Center directed by the United States Army and was re-designated as Camp Wolters Army Base. In 1963, the camp was permanently renamed Fort Wolters and served as the home for Primary Helicopter Training during the Vietnam War.

The National Guard sold Old Camp Wolters in 1965 to the Pratt brothers, who gave the majority of the property to nonprofit groups and the Mineral Wells Independent School District. New Fort Wolters was deactivated in 1975. Part of the land and facilities became the property of the city and private businessmen; ninety acres and thirteen buildings became the Education Center of Weatherford College. A portion of the land was transferred to the state of Texas for development as part of Lake Mineral Wells State Park. Most of the Fort Wolters property is managed by the City of

Mineral Wells.

According to the Mineral Wells City Manager, the Subject Property belonged to the General Services Agency (GSA), which sold it to Weatherford College. The Mineral Wells East Topographic Map, dated 1984, designates the Subject Property as "Weatherford College (West Campus)". During **dse's** site assessment, a 1976 calendar was observed on the wall in one of the buildings, indicating that the site was occupied at that time. It appears that Weatherford College used the Subject Property to teach welding and engine repair. The College returned the Subject Property to the GSA, which sold it to the Texas Department of Criminal Justice (TDCJ) in 1990. The Subject Property is currently 'deed restricted' to use as a detention site as long as it is owned by the TDCJ. The TDCJ has never made use of the Subject Property.

Based on review of aerial photographs and historical topographic maps, the Subject Property was partially developed with five structures prior to 1959, and between 1964 and 1976, all eight buildings were in place onsite. The northwest section of the Subject Property served as a motor pool for Fort Wolters. The eight buildings include three located inside the fenced 'motor pool' area (Buildings 540, 541, and 578), and five located outside the motor pool area (Buildings 551, 552, 571, 575, and 576). The buildings outside the motor pool area are thought to have been originally used as classrooms for helicopter pilots.

The records review for this assessment, including the regulatory databases and standard historical sources, did not identify remediation at the Subject Property or in the surrounding area associated with petroleum product use or pesticide or herbicide use or application from historical agricultural activities. Petroleum product releases identified in the surrounding area have been attributed to fuel storage for commercial purposes as further discussed in **Section 5.1**.

In addition to the standard historical sources discussed below, **dse** reviewed the EDR proprietary databases identified as the Historical Auto Stations and Historical Cleaners databases. No former onsite facilities were identified from review of the Historical Auto Stations or Historical Cleaners database.

5.4.2 Local Street/City Directories

A City Directory-Abstract provided by EDR indicated that Polk's City directories for Mineral Wells, Texas, dated 1967, 1972, and 1978 were researched. No listings were identified for the Subject Property.

dse reviewed available Polk historical directories at the Mineral Wells Public Library for the years 1975, 1978, 9182, 1986, 1988, 1991-92, 1994, 1997, 1998, and 1999. No listings were identified for the Subject Property addresses (540, 541, 551, 552, 571, 575, 576, and 578 Grant Road) in the city directories reviewed. Neither Grant Road nor Cross Post Road was listed in the directories prior to 1997. In the 1997 directory, J-W Operating Company was located at 516 Grant Road, North Ridge Oil Company was located at 530 Grant Road, and B. J. Western was listed at 555 Grant Road, which is across the road to the north of the Subject Property. The only listing in the 1998 directory was J-W Operating Company, at 517 Grant Road. In 1999, Fort Wolters Helicopter was listed at 517

Grant Road along with J-W Operating Company. Lone Star International Energy was listed at 528 Grant, Sigma Controls was listed at 553 Grant, B.J. Services was listed at 555 Grant, and Dunn Manufacturing (fabricated steel) was listed at 556 Grant. The last three addresses are located across the street to the north of the Subject Property. No other listings for that section of Grant Road were found.

A 1968 Mineral Wells Polk City Directory was reviewed at the Weatherford, Texas Public Library. However, that directory contained no listing for either Grant Road or Cross Post Road. No other cross-reference city directories were available.

The city directory research document provided by EDR and **dse's** library review are provided in **Section 15.4.7**.

5.4.3 Recorded Land Title Records

Based on review of information provided by the Parker County Appraisal District (PCAD), the legal description for the Subject Property is:

- Acres 16.370, TR; PT 26.690 AC, BLK; Surv: T&P RR Co.; Property ID R000058838
- The Appraisal plat map shows the Subject Property to be located within the "Wolters 500 Industrial Addition", A-1551.

See **Section 15.4.6** for a copy of the property information, and a copy of the metes and bounds, which is located in the Lien Search Report.

Review of the Lien Search Report provided by EDR indicated that the Subject Property was granted by General Services Department (grantor) to the Texas Department of Criminal Justice (grantee) in May 1990 (Book 1734, Page 1054, Instrument 32275).

A Parker County Clerk's Office representative explained that deed records at that agency are filed according to sell/purchase dates. **dse** did not have information regarding the original purchase of the Subject Property and was therefore not able to conduct research beyond the 1990 sale date when the Texas Department of Criminal Justice obtained the Subject Property.

No earlier records were identified for the Subject Property.

5.4.4 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps are typically published for pre-1960 central business districts. In the late nineteenth century, the Sanborn Company began preparing maps for use by fire insurance companies. Based on review of map records by EDR, Sanborn Fire Insurance Maps are not available for the Subject Property. Sanborn Map search documentation can be found in **Section 15.4.2**.

5.4.5 Historical Topographic Map Review

Historical topographic maps depicting development of the Subject Property and surrounding areas were reviewed and are summarized below. The available historical topographic maps are presented in **Section 15.1.**

HISTORICAL TOPOGRAPHIC MAP REVIEW		
Date	**Map**	**Scale**
1891	USGS Topographic Quadrangle Map of *Palo Pinto, TX (30 Series)*	*Scale: 1:9,000*
1959	USGS Topographic Quadrangle Map of *Mineral Wells, TX (30 Series)*	*Scale: 1:3,000*
1983	USGS Topographic Quadrangle Map of *Mineral Wells East, TX*	*Scale: 1:3,000*
1984	USGS Topographic Quadrangle Map of *Mineral Wells East, TX*	*Scale: 1:1,000*

The 1891 topographic map shows the Subject Property surrounding area as undeveloped.

The 1959 topographic map shows five buildings on the Subject Property (Bldgs. #540, 541, 551, 552, and 571). Cross Post Road does not appear on the map. Structures are located to the northeast, north, northwest, and west. The area to the northeast across Grant Road is designated as the "Main Heliport".

The 1983 topographic map shows the circular drive in the north central section of the Subject Property, but the scale disallows structures. The site is designated as "Weatherford College (West Campus)." Grant Road and Cross Post Road are in place to the north and west.

The 1984 topographic map shows seven buildings on the Subject Property. The site is designated as "Weatherford College (West Campus)." Grant Road and Cross Post Road are in place to the north and west. Properties to the northeast, east, south, and immediate west are shown as undeveloped. Structures are located to the north and northwest across Grant Road, and farther west and southwest, fronting Grant Road. The six small, square-shaped solid structures fronting the north side of Grant Road are in much the same location as UST sites where tanks were pulled by the USACE in the early 1990s (shown on Removal of Underground Storage Tanks Site Location Map provided in the Appendices).

No suspect RECs were identified onsite from review of the historical topographic maps. The UST locations were reviewed in Section 5.1, and only those UST sites that were located directly upgradient of the Subject Property are considered to be suspect RECs to the Subject Property.

5.4.6 Aerial Photograph Review

EDR was subcontracted to provide historical aerial photographs of the Subject Property for **dse**'s review. Aerial photographs for the years 1948, 1964, 1976, 1983, 1995, 2004, 2005, and 2006 were provided by EDR. An aerial photograph dated 2008 was obtained from Google Earth™.

Copies of the currently available aerial photographs are included in **Section 15.3.** These aerial photographs of the Subject Property and surrounding area were reviewed for indications of industrial use, landfills, mass filling, or other areas of concern that could be indicative of recognized environmental conditions. The approximate scales of the photographs are indicated when available, but due to reproduction technology, may not be accurate.

Historical Aerial Photograph Review		
Date	**Source of Aerial**	**Approximate Scale**
1948	EDR	1" = 550'
The Subject Property is shown as undeveloped land with groundcover, trees, and disturbed areas where soil is exposed. An unpaved road cuts through the property from its northwest corner to near its southern corner. In 1948, Fort Wolters was not in active use by the military or government, although some areas had been purchased by local businessmen who converted them to private use. The Subject Property does not appear to be in use in 1948. The structures associated with the former military activities are in place to the north across Grant Road. Surrounding properties to the east, south, and immediate west are undeveloped.		
1964	EDR	1" = 1,500'
The scale and clarity are poor in the 1964 aerial; however, it is evident that the Subject Property has been developed with at least five of its buildings, as well as associated drives and parking. The developed properties to the north and northwest show the reconstruction that occurred after the base was reactivated in the 1950s. Cross Post Road is in place, as are structures to the west and southwest, on the south side of Grant Road.		
1976	EDR	1" = 600'
The Subject Property is shown with all eight of its current structures onsite. The Tank #567 area is in place on the northeast corner of the property. Surrounding properties are similar to how they appeared at the time of **dse's** site assessment.		
1983	EDR	1" = 700'
No significant changes are shown on the Subject Property or adjacent properties from the 1976 aerial photograph.		
1995	EDR	1" = 500'
No significant changes are shown on the Subject Property or adjacent properties from the 1983 aerial photograph.		

Historical Aerial Photograph Review		
Date	**Source of Aerial**	**Approximate Scale**
2004	EDR	1” = 600’
In the 2004 aerial, it is evident that the roof has collapsed on the 571 building. There are no other significant changes shown on the Subject Property or adjacent properties from the 1995 aerial photograph.		
2005	EDR	1” = 600’
The 2005 aerial shows more deterioration on the Subject Property. Piles of trash are evident in several of the parking areas and vegetation growth has expanded. There are no significant changes shown on the Subject Property and no significant changes on adjacent properties from the 2004 aerial photograph.		
2006	EDR	1” = 600’
There are no significant changes shown on the Subject Property or adjacent properties from the 2005 aerial photograph.		
2008	Google Earth ™	1” = 600’
There are no significant changes shown on the Subject Property or adjacent properties from the 2006 aerial photograph.		

The aerial photographs reviewed showed no obvious environmental concerns at the Subject Property or surrounding properties.

5.4.7 Building Department Records

The Subject Property was originally developed in the late 1950s, with additions of several buildings made between 1964 and 1976. Due to the early dates of development, as well as the military nature and government ownership of the Subject Property, no construction permit records were identified for the Subject Property at the Mineral Wells Building Department.

5.4.8 Prior Assessments and Other Historical Sources

The USACE provided two prior reports for **dse’s** review:

1) *Preliminary Assessment Report for Fort Jacob F. Wolters, Installation 48555, Mineral Wells, Texas*, prepared for National Guard Bureau, Army Directorate, by Argonne National Laboratory, dated August 1993.

   This report was a preliminary assessment (PA) of Fort Wolters, encompassing 3,985 acres of that portion of the property that was occupied by the Texas Army National Guard (TXARNG). The Subject Property addressed by the current Phase I ESA was not included in the 1993 report other than as a mention that the area was the former Fort Wolters ‘cantonment’ area. Most of the segments of Fort Wolters that are discussed in the 1993 PA

are located to the east and northeast of the Subject Property, with the exception of a Former Nike Launch Area that was approximately one mile north of the Subject Property.

Maintenance activities performed at the Fort Wolters property as part of the TXARNG operations required the use of hazardous materials that could result in the release of hazardous waste. Environmentally significant operations identified by the 1993 report included: fuel storage and dispensing; storage of hazardous materials/hazardous waste; vehicle/equipment washing; former Nike missile base operations; the use of hazardous construction materials; and unauthorized disposal of waste on the property.

None of the areas identified in the 1993 report as being related to the listed activities were located within proximity to the Subject Property. The sites of concern were also all topographically separated from the Subject Property by elevation high points. Therefore, the 1993 PA was used primarily as an additional resource for historical, geologic, and hydrogeologic information.

2) *Petroleum Product Piping Removal and Site Assessment, Fort Wolters, Site No. 578, Mineral Wells, Texas*, prepared for U.S. Army Corps of Engineers by WC Environmental Group, dated January 8, 1996; and documentation from the original UST removal that took place on site in 1991.

An Underground Storage Tank (UST) Construction Notification Form dated June 1991, details the site location, the owner and the contractor information supplied as part of the notification of intent for tank removal at the Subject Property between June 24, 1991 and July 24, 1991. The documentation includes permits issued by the City of Mineral Wells for the removal activity. Two tanks of 12,000-gallon capacity each were removed. Comments in the documentation indicate that initially the Contractor composited all soil samples collected; however, the Contractor was directed to return to the excavations and resample all sidewalls and provide separate sample analysis results. All sample results appear in the chemical analysis results table.

Certification documentation of the purging and destruction of the tanks is present in the documentation. There are also manifests indicating the removal of 11 yards of contaminated soil from the Subject Property.

The contract with USACE required the Contractor to remove fuel lines two feet away from the excavation. USACE had to issue a separate contract to have all of the remaining fuel lines removed, which occurred in 1994. The 1996 report details the removal of the remaining fuel lines as well as the fuel pumps and associated dispensing islands.

Correspondence from the Chief of the USACE Engineering Division to the Texas Department of Criminal Justice, dated July 23, 1996, indicates that the USACE was providing to the TDCJ one copy of the 1994 removal project of petroleum product piping at Site 578, as well as a copy of the closure report for the 1991 UST removal at the site. According to the correspondence, approximately 190 feet of petroleum product pipelines and

other associated piping was removed. The final excavation surfaces at the site were tested for petroleum and lead contamination and were found to be below Texas Natural Resource Conservation Commission (TNRCC, now the TCEQ) action levels. Therefore, no further action was required at the areas where the piping was removed. The correspondence indicates that the report was submitted to the TNRCC as a clean closure report, and adds that the 1991 tank removal report was submitted to the TNRCC for clean closure in June 1993.

Although the closure report indicates that closure for the two removal activities was approved by the TNRCC, the closure activities occurred prior to the establishment of current regulatory closure standards; therefore, the former onsite USTs and associated features *do present* a REC to the Subject Property. Copies of the referenced reports and documentation are provided as Appendices in **Section 15**.

5.4.9 Data Failure and Standard Historical Sources

The following standard historical source was not reviewed in this assessment because: (a) the records/files were not reasonably ascertainable or practically reviewable, or (b) previous experience indicated that these sources would not assist in reaching the historical research objectives of ASTM:

- Zoning/Land Use Records

DATA GAP: To satisfy the USACE Scope, aerial photographs or topographic maps in five year intervals were requested, if available, back to 1940. Aerial photographs and topographic maps were not readily available in five year intervals; however, a 1948 aerial photograph and an 1891 topographic map were obtained. The other years of aerial photographs and/or topographic maps available were: 1948, 1959, 1964, 1976, 1983, 1984, 1995, 2004, 2005, 2006 and 2008. Based on the identified use of the Subject Property and the surrounding area, historical information, if it exists, would not likely show a change of property use between those years when aerial photographs and topographic maps were available. It is the opinion of **dse** that the data gap in available materials during those intermittent years does not constitute a significant data gap or impact our ability to identify RECs at the Subject Property.

5.5 Historical Use Information on Adjacent Properties

Standard historical sources used in the previous section (including historical topographic maps, city directories, aerial photographs, and/or interviews) were used to determine the historical use of adjacent properties. Information obtained from the historical sources is summarized below.

HISTORICAL USE OF ADJACENT PROPERTIES

Direction	First Developed	Description of Development and Use
North, Northeast, and North west	Prior to 1948	Camp Wolters was designated an infantry training center for the U.S. Army in March 1941. It was deactivated after the war. In the 1948 aerial photograph, the area north of the Subject Property is shown as developed with numerous structures that appear to be barracks and buildings that had been associated with troop support and training activities from the war period. The camp was reopened in early 1951 as Wolters Air Force Base. In September 1956, the base became the Primary Helicopter Center directed by the United States Army and was re-designated as Camp Wolters Army Base. At that time, the area north of Grant Road was redeveloped as a helicopter training site, and remained in use as such until Fort Wolters was closed in the mid-1970s. The area north of the Subject Property became Wolters Industrial Park and the buildings were purchased and occupied by private businesses, including oil field service and equipment companies.
South	N/A	The property adjacent to the south has remained undeveloped.
East	N/A	The property adjacent to the east has remained undeveloped.
West	Prior to 1939	Cross Post Road was constructed to the west of the Subject Property between 1959 and 1964. The area adjacent on the west side of Cross Post Road, which had been previously undeveloped, was then developed with a paved parking lot/storage yard. The lot is located across from the northwest corner of the Subject Property, while the land to the south of the lot remains undeveloped. Farther west and southwest (on the south side of Grant Road) structures belonging to the military were constructed. These later became a part of Wolters Industrial Park. At the time of **dse's** area reconnaissance, the first building beyond the paved lot was occupied by an electric contractor, and the buildings beyond that were vacant.

Several of the properties located north to northwest of the Subject Property are listed in the UST and LPST databases. Only those sites situated upgradient of the Subject Property are considered to be suspect RECs to the Subject Property. They are discussed in Section 5.1.

No Historical Auto Stations or Historical Cleaners facilities were identified at adjacent properties from review of the EDR proprietary databases.

No suspect REC's to the Subject Property associated with surrounding historical land use was identified from review of historical sources and interviews except for the following:

- LPST Sites
  - Tanks 557A through E: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact, the former Fort Wolters UST site Tanks 557A through E *does* present a potential REC to the Subject Property.
  - Tank 566A: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 6 feet below surface), the former Fort Wolters UST site Tank 566A *does* present a potential REC to the Subject Property.
  - Tanks 535A, B, C and D: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site Tanks 535A, B, C and D *does* present a potential REC to the Subject Property.
- UST Sites
  - BJ Services Company: In spite of the non-leaking status and removal of the USTs more than 12 years ago, due to proximity and upgradient position relative to the Subject Property, the former USTs at the BJ Services facility *do* present a potential REC to the Subject Property.
  - Fort Wolters is on the PST database (Facility ID 61461) for having two USTs installed in 1987 under the ownership of the US Department of the Army (Owner ID 38641). According to Ms. Post, this actually a Corps of Engineers ID number. Ms. Post stated that the only tanks the USACE would have registered were those being removed. The database indicates these tanks were removed in 1991, at the same time all of the USACE tanks were removed from Fort Wolters. Although there is no address or location information, Ms. Post believes these USTs were probably those located at Building 535 as that site required additional work. The former tanks at Building 535 do appear on the LPST list and are further discussed in the LPST section above. In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), this former Fort Wolters UST site *does* present a potential REC to the Subject Property.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the Subject Property to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. This objective is in general accordance with the ASTM E 1527-05 and AAI guidelines.

The Subject Property and adjacent properties were visually and physically observed on September 21, 2010, by Ms. Sherri Godsey, a representative of **dse** having experience in conducting Phase I ESAs of apartment complexes. The purpose of the site reconnaissance was to note evidence of recognized environmental conditions through visual/physical observations and interviews. Additionally, reconnaissance of the adjacent properties was performed to identify land use and the associated potential for the presence of recognized environmental conditions. The site reconnaissance was conducted in a manner to identify suspect RECs listed in and in general accordance with ASTM 1527-05 Section 9.2, AAI guidelines, and other relevant sections of this standard. The following limiting conditions were noted during the site reconnaissance:

Weather conditions at the time of the onsite assessment were clear and sunny. Selected photographs collected during the site reconnaissance are provided in **Appendix 15.2**.

6.2 General Site Setting

The Subject Property is located at the intersection of Cross Post Road and Grant Road in Mineral Wells, Parker County, Texas. The site consists of 16.37 acres of land improved with eight vacant buildings located at Latitude 32° 50' 13.2" N, Longitude -98° 3' 19.8" W.

A potential former UST site (Tank #567) was identified on the northeastern corner of the Subject Property (**Photo #'s 36 and 37**). Apparent vent pipes were noted (**Photo #37**); however, **dse** was not able to determine if the tank has been removed or filled in-place. No documentation regarding the tank's construction, installation, use or subsequent closure was identified. No evidence of spills, staining, dumping or stressed vegetation was observed in the tank area. A sub-grade hydraulic lift and a possible fluid collection pit were observed in Building 541 (**Photos #11 and #12**). A few drums and/or containers of oil or related automotive chemicals were observed in Buildings 540, 541, and 578 (**Photos #4, #10, #13, and #21**), and an open drum containing used oil filters (**Photo #19**) was observed outside, immediately south of Building 541. No other evidence of hazardous materials, petroleum products, or hazardous wastes was observed at the time of site reconnaissance.

During the site reconnaissance, **dse** observed that the Subject Property was overgrown with recent weeds and underbrush in undeveloped sections and around the buildings. Only Buildings 540, 541, and 578 were not enclosed by heavy vegetation around the structures. The exteriors of the site

buildings were in relatively sound condition; however, interiors were in disrepair, including sections of collapsed roofing in Buildings 540 (**Photo #7**) and 551, and a hole in the office area wall in Building 541 (**Photo #16**). The roof on Building 571 was completed collapsed, with only the exterior walls still in tact (**Photo #29**). Windows were broken out in all but Buildings 575 and 576, which were constructed of corrugated metal and had no windows (**Photos #31 and #33**). Construction material debris was noted in all of the buildings that included damage to interior walls and ceilings (**Photos #8, #16, #23, #26, #32 and #34**). The wooden stairways that accessed storage lofts in Buildings 540 and 541 were badly damaged and partially collapsed. Floors were constructed of concrete, and wherever floor tile had been used, it was badly damaged (**Photos #23, #24, #27, and #34**). The only buildings in which hazardous materials were observed were Buildings 540, 541, and 578. Those three buildings had been used as a motor pool area by the military, and later to teach engine repair to Weatherford College students.

Piles of building debris (wood, siding, shingles, bricks, etc.) and some household-type trash (furniture, paper, cups, etc.), with an occasional empty paint can, were observed in the former parking areas and drives on the eastern section of the Subject Property (**Photos #28, #30, and #31**).

Based on visual/physical observations and interview remarks by Subject Property representatives, the Subject Property is vacant and has been vacant for at least 20 years. Historical research regarding past use of the Subject Property is discussed in **Section 5.4.**

The only onsite surface water noted was small amount of standing water located in a narrow drainage on the northeastern corner of the Subject Property that separated the Tank #567 location from the rest of the site (**Photo #38**). Otherwise, no other surface water, including ponds, streams, or marshy areas, was observed or reported. An intermittent tributary stream, Rock Creek Tributary No. 5, bounds the southern and eastern perimeters of the Subject Property. It was observed to be dry at the time of **dse's** site reconnaissance. No surface water, including ponds, streams, or marshy areas, was observed or reported on adjacent properties.

6.3 Interior and Exterior Observations

Current and Past Uses: Observations of current and past uses of the Subject Property indicated in the site reconnaissance are discussed in **Sections 6.2 and 5.4**, respectively. Except as discussed below and in **Sections 5.4, 6.4,** and **6.5,** no current or past use of the Subject Property involving use, treatment, storage, disposal or generation of hazardous substances or petroleum products was observed or reported in the site reconnaissance

- **Potable Water Supply:** Drinking water resources for the Subject Property area are drawn from surface water sources collected by the Mineral Wells Water Department. The city's municipal water source consists of surface water drawn from Lake Palo Pinto, Palo Pinto Creek, and Hilltop Pre-sedimentation Reservoir. More detailed information on the City's 2009 Water Quality Report is presented in **Appendix 15.4.10.**

- **Sewage Disposal/Septic System:** The Subject Property is connected to the City of Mineral Wells municipal sanitary sewer system. No current septic system or private sewage disposal systems were reported or observed.

- **Hazardous Substances and Petroleum Products in Connection with Identified Uses (Other than Storage Tanks):** A few drums and/or containers of oil or related automotive chemicals were observed in Buildings 540, 541, and 578, and an open drum containing used oil filters was observed outside, immediately south of Building 541. A few empty paint cans were observed amid the general trash debris noted around the site. No other evidence of hazardous materials, petroleum products, or hazardous wastes was observed at the time of site reconnaissance.

- **Storage Tanks:** No aboveground storage tanks (AST) were observed or reported on the Subject Property. The potential presence of former oil USTs were identified in the Tank #567 area on the northeastern corner of the Subject Property (**Photo #'s 36 and 37**). Apparent vent pipes were noted; however, **dse** was not able to determine if the tanks had been removed or filled in-place. No documentation regarding the tanks' construction, installation, or subsequent closure was identified. No evidence of spills, staining, dumping or stressed vegetation was observed in the tank area. Two USTs were removed from the Subject Property in 1991, and the associated fuel pumps and piping were removed in 1994. No evidence of these former tanks was observed.

  No other underground storage tanks (USTs) or evidence thereof, such as fill caps, access ways, or vent or fill pipes, was observed or reported on the Subject Property.

- **Odors:** The buildings were well ventilated due to missing windows, doors, and in some cases, walls, and no odors were noted.

- **Pools of Liquid:** No pools of liquid indicating a release were observed or reported on the Subject Property.

- **Drums and Other Containers:** A few drums and/or containers of oil or related automotive chemicals were observed in Buildings 540, 541, and 578, and an open drum containing used oil filters was observed outside, immediately south of Building 541. No other drums, totes, or other bulk chemical containers were observed or reported on the Subject Property.

- **Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection With Identified Uses):** Except as discussed above, no hazardous substance or petroleum product containers were observed or reported at the Subject Property.

- **Unidentified Substance Containers:** No unidentified substances were observed in the containers, and no unidentified substances have been reported at the Subject Property.

- **Polychlorinated Biphenyls (PCBs):** Electrical transformers are of potential concern because of the possible presence of polychlorinated biphenyls (PCB) which are contained in the dielectric fluid of some older transformers. Hydraulic equipment, discussed in **Section 6.5**, may also contain PCBs.

  No transformers were observed onsite during **dse's** site reconnaissance. If pad-mounted transformers were present, they were not readily noted due to overgrown conditions around the buildings. Poles and electrical lines were observed, but no pole-mounted transformers were noted in connection with the poles. A bank of capacitors was observed on a pole in the easement fronting Cross Post Road at the southwest corner of the Subject Property; however, those did not appear to be on the property. No other electrical equipment was observed. If the vegetation is cleared and transformers are identified, due to the age of the facility there is a potential for PCBs to be present in the units' dielectric fluids. The owning utility (Oncor Delivery) would be responsible for their equipment.

6.4 Interior Observations

- **Heating/Cooling:** No functioning heating or cooling systems were observed or reported onsite. Gas-powered, ceiling mounted heaters were observed in Buildings 540 and 541. HVAC systems in the lofts of those two structures could not be inspected due the collapsed stairways and rotted ceilings in those areas. Both buildings had 50-gallon gas hot-water heaters in the bathrooms. No HVAC system was observed associated with Building 578. Buildings 551 and 552 had exterior cooling towers with interior air handlers and gas furnaces. In both buildings, single-family residential style gas-fired boilers appear to have been installed to replace the exterior HVAC. No HVAC system was visible in the collapsed 571 Building. Buildings 575 and 576 had gas-powered furnaces for heat and electric-powered air conditioning with air handlers. These systems had been vandalized.

- **Stains or Corrosion:** Oily stains were observed on the concrete floors in Buildings 540 and 541, which had been used as a motor pool for the military, and later as teaching locations for engine repair. Some stains were observed in connection with an oil drum in Building 541 (**Photo #10**), and with an engine part in Building 540 (**Photo #5**). No staining was observed in or around floor drains in those buildings. The staining was local and *does not* present a suspect REC to the Subject Property.

- **Drains and Sumps:** Floor drains were observed in Buildings 540 and 541, and ground drains were observed in the vehicle wash area located outside the south side of Building 541. No staining was observed in connection with the drains. Drains observed in the exterior vehicle wash area are discussed under 'wastewater discharges' below. No other interior drains were reported at the Subject Property. Typically, restrooms may be improved with floor drains routed to the municipal sanitary sewer. However, due to the damaged condition of bathrooms in the buildings, drains were not observed in those areas.

6.5 Exterior Observations

- **Pits, Ponds or Lagoons:** No pits, ponds or lagoons were observed or reported on the Subject Property.

- **Stained Soil or Pavement:** Much of the Subject Property was overgrown with weeds and underbrush, and there were areas obscured by trash both scattered and in piles; however, no soil staining was evident. There was no staining observed in parking lots or associated drives.

- **Stressed Vegetation:** No stressed vegetation or obvious evidence of associated soil staining, distressed, discolored or stained vegetation was observed or reported on the Subject Property.

- **Solid Waste:** The Subject Property has been vacant for at least 20 years and no trash or waste materials are currently generated at the Subject Property. However, numerous piles of non-hazardous solid waste from general office and household trash created by prior occupants were observed on the grounds, parking lots, and drives, as were piles of construction debris. Observed solid waste is not considered a suspect REC to the Subject Property. Trash and construction debris should be removed and appropriately disposed.

  dse observed that the interiors of the Subject Property improvements were damaged, and deteriorated and vandalized construction materials were noted inside all of the buildings. These building materials, which may be considered construction debris, were not indicative of stockpiling or solid waste disposal. Review of regulatory databases did not indicate previous solid waste disposal or dumping at the Subject Property. Based on this information, the building materials onsite are not considered a suspect REC to the Subject Property.

- **Wastewater Discharges:** No current wastewater discharges were observed or reported on the Subject Property. Previous wastewater discharge typically would have included sanitary sewer discharges to the municipal system. The drains observed in the former vehicle wash area outside Building 541 may connect to sand and/or oil traps. The potential presence of such traps is considered a REC to the Subject Property.

- **Wells:** No onsite irrigation, groundwater monitoring or water supply wells were observed or reported at the Subject Property. Review of well reports included in the EDR regulatory database report indicated no wells at the Subject Property.

- **Sewage Disposal/Septic System:** The Subject Property is connected to the City of Mineral Wells municipal sanitary sewer system. No current septic system or private sewage disposal systems were reported or observed.

6.6 Other Observations

- **Hydraulic Systems:** No elevators were observed or reported on the Subject Property. However, a below grade hydraulic lift and potential fluid collections pit (**Photos #11 and #12**) were observed in the southern metal structure of Building 541. No staining was observed around either feature; however, based on the age of the structure and the period of time during which the facility was engaged in motor pool activities, there is a potential that any fluids remaining in the reservoirs could contain PCBs. There is also a potential for sub-grade leaks to have occurred. Both of these features need to be inspected and if fluids are present, they should be sampled and tested for potential PCB content. If PCBs are present, the fluids would need to be appropriately disposed in accordance with regulatory standards.

- **Drainage Pathways/Erosion:** Review of the USGS topographic map indicated that topography of the Subject Property generally slopes to the south and southeast. This was visually verified during the site reconnaissance. No formal storm-water discharge system was observed during **dse's** site reconnaissance.

7.0 INTERVIEWS

7.1 Interview with Owner

Mr. Lance Howerton (City of Mineral Wells City Manager): The Texas Department of Criminal Justice (TDCJ) is the current owner of the Subject Property; however, no one with that agency was identified for interview. Mr. Howerton served as representative of the City of Mineral Wells in regard to responding to questions about the Subject Property.

7.2 Interview with Key Site Manager

Mr. Lance Howerton: Mr. Howerton was interviewed at Mineral Wells City Hall regarding the Subject Property on September 21, 2010. Mr. Howerton has some knowledge of the Subject Property background, and was designated as being the most knowledgeable person available. Based on his familiarity with the Subject Property and the surrounding properties, Mr. Howerton meets the criteria under ASTM E 1527-05 and AAI guidelines as a "Key Site Manager."

Mr. Howerton stated that he has been knowledgeable of the Subject Property for a number of years. However, Mr. Howerton stated that the City does not have any documentation for the Subject Property. He indicated that the site had been owned by the General Services Department (GSA) and sold to Weatherford College in the 1970s. Weatherford College used portions of the Subject Property for classes, and the former motor pool area had been used to train students in engine repair. Weatherford College returned the Subject Property to the GSA, which then deeded it to the TDCJ in 1990. Mr. Howerton stated that the TDCJ never used the property, although it was deed restricted for detention use. Mr. Howerton stated that the TDCJ now wants to return the Subject Property to the GSA, but the GSA does not want the site prior to any environmental issues being addressed beforehand.

Mr. Howerton indicated that the Subject Property had been developed by the military when Fort Wolters was reactivated as a helicopter training site in the late 1950s. He was uncertain as to the exact construction dates of the onsite buildings, but knew that the Subject Property began operating as a motor pool in at least the early 1960s.

Mr. Howerton stated that he had no formal knowledge of environmental concerns onsite or in the area immediately surrounding the Subject Property; however, he had no details regarding storage practices or history of automotive or industrial batteries, pesticides, pits, ponds, waste lagoons, underground/aboveground storage tanks, vent pipes, fill pipes, access ways, sumps, or evidence of stained soil at the property. Aside from the deed restriction, Mr. Howerton stated that he did not know of previous or current governmental notices or administrative proceedings and has never been notified of violations of environmental laws or environmental regarding the Subject Property.

Mr. Howerton stated that he was not aware of any of the following: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Subject Property; and (3) any notices from any

governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at or in proximity to the Subject Property.

7.3 Interviews with Occupants

The Subject Property is vacant and therefore had no current occupants.

dse contacted Ms. Andra Cantrell, V.P. of Finance with Weatherford College (817-598-6260), to inquire about the use of the Subject Property during the time it was occupied by a segment of the College's Mineral Wells Education Center. However, Ms. Cantrell had no personal knowledge of prior site usage, nor was she aware of where documentation from that period could be found. Ms. Cantrell stated that there were no personnel still at the College that had been associated with the Subject Property when the College owned it. She stated that the Subject Property had been turned back to the GSA in the mid-1980s.

No other previous occupants were available for interview.

7.4 Interviews with Local Government Officials

The interview with City Manager Lance Howerton is discussed above.

A Public Records request was submitted to the City Clerk's Office (cityclerk@mineralwellstx.gov) for information from the Mineral Wells Fire Department regarding any known environmental issues associated with the Subject Property. A response is pending.

Inquiry with the City of Mineral Wells (http://www.mineralwellstx.gov/) and review of the Parker County website (http://www.co.parker.tx.us/ips/cms) on October 4, 2010, indicated that the city and county health departments do not record pertinent information associated with impact to soil, surface water, or groundwater. Therefore, no information request was made to the city or county other than to the City fire department as discussed above.

7.5 Interviews with Others

Correspondence obtained from Oncor verifies that they are responsible for their electrical equipment and any cleanup due to spills or leaks from their equipment, should such be required. A copy of the correspondence is provided in **Appendix 15.5.**

No other interviews were conducted as part of this assessment.

8.0 FINDINGS AND OPINIONS

8.1 Findings of Known or Suspect Recognized Environmental Conditions

dse has performed a Phase I ESA of the Ft. Wolters Criminal Justice Property, located at Cross Post Road/Grant Road in Mineral Wells, Parker County, Texas 76067 (Subject Property) for the City of Mineral Wells, Texas. The site consists of 16.37 acres of land improved with eight vacant buildings located at Latitude 32° 50' 13.2" N, Longitude -98° 3' 19.8" W, Survey Abstract T&P Rail Road Company, and is herein referenced as the "Subject Property". According to the Mineral Wells City Manager, the Subject Property is zoned "light industrial". Historical aerial photograph and topographic map review indicated that the Subject Property has been developed since at least 1959.

The following RECs, Business Environmental Risks (BER), and/or suspect RECs were identified from onsite observations, interviews, area reconnaissance observations, and research of historical and regulatory database information.

Based on the information made available to **dse** and information obtained during the assessment of the Subject Property, the following was noted:

Onsite Concerns

The Subject Property originally operated as a motor pool and classroom facility for Fort Wolters, and later as an adult education facility for Weatherford Education Center where welding and engine repair were taught. The Subject Property has been vacant for at least 20 years. Potential onsite RECs that were identified during review of historical information, interviews about the Subject Property's prior use, and **dse's** onsite reconnaissance, include:

- Four onsite USTs:
  - Two former USTs were removed from near Building 578 in 1991, with associated fuel pump and piping removed in 1994.
  - Two USTs at the "Tank 567" location with no documentation of removal. The only information found for "Tank 567" was an old 'tank list' indicating that "Tank 567" included two 7,500-gallon oil storage USTs installed in 1961 and 1964. "Removed" was hand-written across the "Tank 567" listing. However, no definitive documentation has been discovered or provided to verify removal.
- A sub-grade hydraulic lift and a possible fluid collection pit were located in Building 541.
- A few drums and/or containers of oil or related automotive chemicals were observed in Buildings 540, 541, and 578, and an open drum containing used oil filters was observed outside, immediately south of Building 541.
- Drains in the former vehicle wash area outside Building 541 may connect to sand and/or oil traps.

Offsite Concerns

The following off-site *suspect* RECs were discovered during the records review of regulatory databases or historical information:

One SQG facility and one non-generator facility were identified within ¼ mile:

- BJ Services Mineral Wells, located at 555 Grant Road, is approximately 450 feet (corrected from the EDR database distance of 829 feet) to the north-northwest of the Subject Property, across Grant Road. Building 555 is approximately 600 feet from the Subject Property. The facility has operated as a SQG since at least 1984. One violation was listed for the facility in 1986 pertaining to a 'state statute or regulation', and compliance was achieved in 1994. No other violations were listed in the database. This facility also appears on the FINDS database due to its status as a RCRA-generator site. No exterior storage of known, identified hazardous materials or wastes was observed during **dse's** area reconnaissance.
- Mineral Wells Shop (operated by Exxteran Energy Solutions) at 548 Grant Road, is approximately 100 feet west of the BJ Services site, and is located approximately 600 feet north of the Subject Property's northwest corner. Exterran services are offered for compressors, production equipment, and entire processing plants. A full-service machine shop manufactures and repairs components as required, and includes welding in the building of vessels of all types and sizes. Mineral Wells Shop was previously listed as a SQG for the years 1989, 2000, 2002, 2005, and 2007. According to the database, the facility does not currently generate hazardous waste, and it has been listed as a RCRA-non-generator since 2008. The facility has no record of violations. This facility also appears on the FINDS database due to its status as a prior RCRA-generator site.

- The Subject Property and surrounding properties were identified on the former Fort Wolters site, which is listed as a FUDS.
  - Fort Wolters consisted of 7,960.31 acres and traces its history to World War II Camp Wolters. Improvements included an airfield, hangars, barracks, a hospital, roads, ranges, and other support facilities. Current use is primarily industrial with a mix of residential, recreational, and wildlife refuge. Projects include containerized hazardous, toxic, and radioactive waste, and potential unexploded ordinance contamination.

- No listed LPST facilities were identified on the EDR LPST database within ½ mile. However, one LPST facility located within ½ mile appears on the EDR database Orphan List.
  - Adjutant Generals Fort Wolters, 1180 Pickett, was located approximately 1,962 feet west-southwest of and cross-gradient to the Subject Property. Tanks at that location were removed in the early 1990s. Review of TCEQ LPST data for the location indicates that groundwater was not impacted. The case was closed.

- Six additional LPST sites were identified on the TCEQ Leaking Petroleum Storage Tank Database website:
    - Tanks 557A through E were located at Fort Wolters Building 557, approximately 220 feet north-northwest of and up-gradient to the Subject Property. Tanks at that location were removed in 1991. Review of TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.
    - Tank 566A was located at Fort Wolters Building 566, approximately 440 feet north-northwest of and up-gradient to the Subject Property. The tank at that location was removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.
    - Tanks 535A, B, C and D were located at Fort Wolters Building 535, approximately 469 feet northwest and up-gradient to cross-gradient from the Subject Property. The tanks at that location were removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was impacted; however, there were no threats or impacts to receptors. The case was closed.
    - Tank 515A was located at Fort Wolters Building 515, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property. The tank at that location was removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was not impacted. The case was closed.
    - Tank 505A was located at Fort Wolters Building 505 (1180 Pickett Street), approximately 1,962 feet west-southwest of and cross-gradient to the Subject Property. The tank at that location was removed in 1991. Review of the TCEQ LPST data for the location indicates that assessment was incomplete; however, there were no threats or impacts to receptors. The case was closed.
    - J-W Operating, 516 Grant Road, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property, had two USTs that were installed in 1979. The USTs were removed in 1991. Review of the TCEQ LPST data for the location indicates that groundwater was not impacted. The case was closed.

- No listed Registered Underground Storage Tanks (USTs) facilities were identified on EDR's UST database within ½ mile. However, review of information provided by the USACE indicated two former USTs that were previously located on the Subject Property, two USTs that may or may not still be on the Subject Property (Tank 567), and former USTs that had been located at Buildings 505, 515, 525, 535, 546, 557, 566, and 572. The tanks from all of those locations were removed in 1991, and five of the USACE sites are addressed under the LPST discussion above. Reportedly, the tanks removed by USACE were installed at Fort Wolters in the 1950s/1960s.

- Actual tank registrations identified on the TCEQ Registered Petroleum Storage Tank Database website included:
  - BJ Chemical Services, 553 Grant Road, approximately 200 to 250 feet north-northwest of the Subject Property. Eight registered USTs that were installed in 1980, were removed from that facility in 1996 (three 10,000-gallon diesel, one 6,000-gallon gasoline, one 1,000-gallon new oil, one 550-gallon new oil, one 300-gallon used oil, and one 250-gallon used oil).
  - J-W Operating, 516 Grant Road, approximately 1,490 feet west-southwest and cross-gradient to the Subject Property, which is discussed under the LPST section above.
  - Fort Wolters is on the PST database (Facility ID 61461) for having two USTs installed in 1987 under the ownership of the US Department of the Army (Owner ID 38641). According to Ms. Post, this is actually a Corps of Engineers ID number. Ms. Post stated that the only tanks the USACE would have registered were those being removed. The database indicates these tanks were removed in 1991, at the same time all of the USACE tanks were removed from Fort Wolters. Although there is no address or location information, Ms. Post believes these USTs were probably those located at Building 535 as that site required additional work. The former tanks at Building 535 do appear on the LPST list and are further discussed in the LPST section above.

- No listed releases were identified onsite or immediately adjacent to the Subject Property. However, one SPILLS site was reported on the Orphan List that was located adjacent to the north across Grant Road:
  - Western Company of North America, 553 Grant Road, approximately 200 feet north-northwest and up-gradient to the Subject Property, reported a spill of 'corrosive water' in 1989. The amount of release was not reported; however, it was classified as a 'minor' release.

- Twenty-three (23) non-plotted (orphan) listings/facilities were also listed in the regulatory database search and individually reviewed. These listings/facilities included six LPSTs, three ASTs, two USTs, two TRIS, two FINDS, two Tier 2, two SWF/LF, one RCRA-Non-Generator, one IHW, one SPILLS, one ENF, and one MINES.

  Two of the LPST sites, the SPILLS site, and one of the FINDS sites are discussed under the LPST, SPILLS, and RCRA-SQG sections, respectively, above. After review, it appears that each of the nineteen (19) remaining orphan listed facilities was located outside of ASTM search distances of each relevant database.

No additional off-site suspect RECs were discovered during the records review of regulatory databases or historical information, or during the site and area reconnaissance or interviews.

8.2 Opinions Regarding Recognized Environmental Conditions

The opinions of the Environmental Professional regarding known or suspect RECs are presented below.

Onsite

- Review of documentation for the removal of the two USTs (1991) and associated piping, fuel pumps and dispensing islands (1994) from near Building 578 (**Photo #20**), indicates that the TCEQ issued closure for both removal activities. The documentation indicates that one of the USTs had contained diesel and the other had contained leaded gasoline. However, the closure activities occurred prior to the establishment of current regulatory closure standards; therefore, the former onsite USTs and associated features *do present* a REC to the Subject Property.
- With no documentation other than a hand-written note regarding removal of the two oil storage "Tank 567" USTs (**Photos #36 and #37**), it was not possible to determine if the tanks were or their contents were actually removed. Therefore, the "Tank #567" USTs *do present* a REC to the Subject Property.
- The sub-grade hydraulic lift and fluid collection pit in Building 541 (**Photos #11 and #12**) *do present* a potential REC to the Subject Property. Potential contents would be hydraulic oil, and pre-1965 hydraulic oil could contain PCBs.
- The drums and/or containers of oil or related automotive chemicals observed in Buildings 540 (**Photo #4**), 541 (**Photos #10, #13, and #14**), and 578 (**Photo #21**) *do present* a potential REC to the Subject Property.
- The potential presence of sand and/or oil traps connecting to the drains in the vehicle wash area (**Photo #17**) outside Building 541 and potential connection to a septic system *does present* a potential REC to the Subject Property.
- No other onsite suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

Offsite

- RCRA listed facilities
  - BJ Services Mineral Wells: Based on distance, the 'small quantity' generator status, no recent record of violations, and no visual evidence of exterior storage, the BJ Services Mineral Wells facility's RCRA listing *does not* present a potential REC to the Subject Property.
  - Mineral Wells Shop: Based on the facility's current non-generator and non-violator status, and its approximately 600 foot distance from the Subject Property, the Mineral Wells Shop *does not* present a potential REC to the Subject Property.
- Formerly Used Defense Sites (FUDS)

- Former Fort Wolters: The Subject Property and surrounding properties were identified on the former Fort Wolters site, which is listed as a FUDS. However, based on review of a 1993 report that indicates activities of environmental concern at Fort Wolters did not occur in proximity to the Subject Property, the Subject Property's location on the FUDS site *does not* present a potential REC to the Subject Property.

- LPST Sites
  - Adjutant Generals Fort Wolters: Based on distance, gradient, soil only impact, and closed case status, this LPST listed facility *does not* present a potential REC to the Subject Property.
  - Tanks 557A through E: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact, the former Fort Wolters UST site Tanks 557A through E *does present* a potential REC to the Subject Property.
  - Tank 566A: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 6 feet below surface), the former Fort Wolters UST site Tank 566A *does present* a potential REC to the Subject Property.
  - Tanks 535A, B, C and D: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site Tanks 535A, B, C and D *does present* a potential REC to the Subject Property.
  - Tank 515A: Based on distance, cross-gradient position relative to the Subject Property, non-groundwater impact, and closed case status, the former Fort Wolters UST site Tank 515A *does not present* a potential REC to the Subject Property.
  - Tank 505A: Based on distance, cross-gradient position relative to the Subject Property, and closed case status, the former Fort Wolters UST site Tank 505A *does not present* a potential REC to the Subject Property.
  - J-W Operating Company: Based on distance, cross-gradient position relative to the Subject Property, and soil only impact, the former USTs at J-W Operating Company *does not present* a potential REC to the Subject Property.

- UST Sites
  - BJ Services Company: In spite of the non-leaking status and removal of the USTs more than 12 years ago, due to proximity and upgradient position relative to the Subject Property, the former USTs at the BJ Services facility *does present* a potential REC to the Subject Property.
  - J-W Operating Company: Based on distance and cross-gradient position relative to the Subject Property, the former USTs at J-W Operating *do not present* a potential REC to the Subject Property.
  - Registered Fort Wolters USTs: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact

(depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site (Tanks 535A, B, C and D) *does present* a potential REC to the Subject Property.

- Spills Reported to the Emergency Response Division (SPILLS) Sites
  - Western Company of North America: Based on the 21 years since the spill was reported and the 'minor' release classification, the SPILLS listing for the Western Company of North America site *does not* present a potential REC to the Subject Property.
- No other off-site suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

8.3 Data Gaps Identified in the Phase I ESA

No significant data gaps prohibiting the Environmental Professional from forming an opinion were identified in this assessment; however, the following data gaps were identified:

- The historical research objective of ASTM to identify the first developed use was not achieved for this assessment. A City Directory-Abstract provided by EDR did not identify addresses for the Subject Property in Polk's City directories for Mineral Wells, Texas, dated 1966, 1972, and 1978. **dse** reviewed available Polk historical directories at the Mineral Wells Public Library for the years 1975, 1978, 1982, 1986, 1988, 1991-92, 1994, 1997, 1998, and 1999, and a 1968 Polk City Directory for Mineral Wells at the Weatherford Public Library. No earlier historical directories were identified.

- To satisfy the USACE Scope, aerial photographs or topographic maps in five year intervals were requested, if available, back to 1940 or first development. Aerial photographs were available from EDR for the years 1948, 1964, 1976, 1983, 1995, 2004, 2005 and 2006 for review. A 2008 aerial photograph was obtained from Google Earth™ Mapping Services. One aerial photograph obtained from the Mineral Wells Public Library is undated; however, the caption refers to "Camp Wolters, Texas", and the "Camp Wolters" designation was used prior to 1951 (1940-1950) when the area was reactivated as "Wolters Air Force Base". Photographs dated prior to 1939 were not reasonably ascertainable. No additional aerial photographs were identified. Topographic maps dated 1891, 1959, and 1984 were available from EDR. Aerial photographs and topographic maps were not readily available in five year intervals.

- No title documents for the Subject Property were obtainable from the Parker County Clerk's office, which maintains its deed records according to Grantor/Grantee listed under purchase years. No information was found under any of the prior ownership names of which **dse** was knowledgeable. The earliest mentioned deed record listed on property information from the Parker County Appraisal District alluded to a deed dated "1/1/1901"; however, no corresponding documentation could be found. According the Mineral Wells Chamber of Commerce, in 1925 Washington (D.C.) gave a grant to Brigadier General Jacob Wolters to build a training site in Mineral Wells for the mounted cavalry in Texas. It may be that the original land granted was government owned, in which case there are no specific deed

records. However, because other historical information, including historical aerial photographs dating back to 1948, city directories dating back to 1968, and topographic maps dating back to 1891, were available and reviewed, **dse** was able to form an opinion regarding RECs to the Subject Property. Therefore, it is the opinion of **dse** that this absence of available title records does not present data failure, nor is it a significant data gap.

Based on review of other historical and regulatory information from the records review, information provided in interviews, and observations during the site reconnaissance, data gaps identified in this assessment do not constitute a significant data gaps or impact the ability of the Environmental Professional to form an opinion regarding or to identify RECs at the Subject Property.

Onsite Business Environmental Risk (BER):

No transformers were observed onsite during **dse's** site reconnaissance. Poles and electrical lines were observed, but no pole-mounted transformers were noted in connection with the poles. However, electricity is reportedly supplied to the Subject Property by Oncor, Texas Utilities' (TXU) electric delivery group.

The following ASTM non-Scope issues were not reviewed in this scope:

- Lead in Drinking Water
- Regulatory compliance
- Cultural and historical resources
- Industrial hygiene
- Health and safety
- Ecological resources
- Endangered species
- Indoor air quality
- Biological agents
- Mold

The following ASTM non-Scope issues were observed and reviewed:

Due to the age of the onsite improvements, suspect asbestos-containing building materials (ACBM) and lead-based paint (LBP) inspections were conducted. An asbestos inspection and a lead-based paint inspection were completed for the site under separate cover. Those reports will provide details of the inspections and conclusions and recommendations based on analysis results. Summaries of materials identified as containing asbestos or lead-based paint are provided below:

Asbestos: A total of 135 bulk samples were collected from the suspect asbestos containing building materials (ACBMs) identified. Eight of the 135 samples were collected for QA/QC purposes. ACBMs were identified in all eight of the buildings inspected:

Building 540 ACBM's

- 3,200 ft^2 of Exterior Wall Shingles (Transite) - 15% Chrysotile Asbestos

- 191 ft^2 of Exterior Soffit (Transite) - 15% Chrysotile Asbestos
- 8 ft of 2" diam. Pipe Insulation - 15% Amosite, 5% Chrysotile Asbestos
- 20 ft of 2"diam. Pipe Insulation Debris - 15% Amosite, 5% Chrysotile Asbestos
- 1,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3% Chrysotile Asbestos
- 366 ft^2 of Window Glazing and Caulking Compound - 2 to 3% Chrysotile Asbestos

Building 541 ACBM's

- 3,200 ft^2 of Exterior Wall Shingles (Transite) - 15% Chrysotile Asbestos
- 191 ft^2 of Exterior Soffit (Transite) - 15% Chrysotile Asbestos
- 8 ft of 2" diam. Pipe Insulation - 15% Amosite, 5% Chrysotile Asbestos
- 1,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3% Chrysotile Asbestos
- 396 ft^2 of Window Glazing and Caulking Compound - 2 to 5% Chrysotile Asbestos

Building 578 ACBM

- 485 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 5% Chrysotile Asbestos

Building 551 ACBM's

- 3,167 ft^2 of 9" x 9" Green Vinyl Composite Tile (VCT) Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 6,464 ft^2 of Exterior Wall Shingles (Transite) - 20% Chrysotile Asbestos
- 324 ft^2 of Exterior Porch Roofs (Transite) - 20% Chrysotile Asbestos
- 672 ft^2 of Panels on the Boiler Room Walls (Transite) - 20% Chrysotile Asbestos
- 200 ft of 2" diam. Pipe Insulation and Debris - 15% Amosite, 65% Chrysotile Asbestos
- 30 ft of HVAC Duct Vibration Gaskets - Inaccessible: Assumed to be ACBM's
- 80 ft^2 of Thermal System Insulation on the Furnace, Flue and Balance Tank - 15% Amosite, 75% Chrysotile Asbestos
- 64 ft^3 of Cooling Tower Internal Baffling- 75% Chrysotile Asbestos
- 13,408 ft^2 of Drywall/Joint Compound on Walls - 3% Chrysotile Asbestos
- 614 ft^2 of Window Glazing Compound - 2% Chrysotile Asbestos

Building 552 ACBM's

- 5,031 ft^2 of 9" x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 6,464 ft^2 of Exterior Wall Shingles (Transite) - 20% Chrysotile Asbestos
- 288 ft^2 of Exterior Porch Roofs (Transite) - 20% Chrysotile Asbestos
- 672 ft^2 of Panels on the Boiler Room Walls (Transite) - 20% Chrysotile Asbestos
- 200 ft of 2" diam. Pipe Insulation and Debris - 15% Amosite, 65% Chrysotile Asbestos
- 30 ft of HVAC Duct Vibration Gaskets - Inaccessible: Assumed to be ACBM's

- 80 ft^2 of Thermal System Insulation on the Furnace, Flue and Balance Tank - 15% Amosite, 75% Chrysotile Asbestos
- 64 ft^3 of Cooling Tower Internal baffling - 75% Chrysotile Asbestos
- 13,312 ft^2 of Drywall/Joint Compound on Walls - 3% Chrysotile Asbestos
- 315 ft^2 of Window Glazing Compound - 2% Chrysotile Asbestos

Building 571 ACBM's

- 5,255 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 28 ft^2 of Acoustical Ceiling Panel Debris - 5% Amosite
- 6,000 ft^2 of Roofing Debris - 5% Chrysotile Asbestos

Building 575 ACBM's

- 6,209 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 5% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 4,264 ft^2 of Suspended Acoustical Ceiling Panels - 5% Amosite
- 10,829 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 5% Chrysotile Asbestos

Building 576 ACBM's

- 7,167 ft^2 of 9"x 9" Green VCT Flooring/Black Mastic - 10% Chrysotile Asbestos in VCT and 5% Chrysotile Asbestos in the Mastic
- 15,885 ft^2 of Drywall/Joint Compound on Walls and Ceilings - 3 to 5% Chrysotile Asbestos
- 232 ft^2 of Wall Panel Mastic - 5% Chrysotile Asbestos

Lead-Based Paint: Three hundred and thirty-six (336) surface samples were taken using an XRF. One hundred and five (105) of the three hundred and thirty-six (336) surface samples analyzed contained lead in concentrations ranging from 1 mg/cm^2 to greater than 5 mg/cm^2. Tests conducted in six of the eight buildings on the Subject Property (Buildings 540, 541, 551, 552, 571, and 578) proved positive for lead-based paint on multiple surfaces/locations. In one building (Building 576) only one positive LBP sample was taken of a door frame. In one building (Building 575) no positive samples were identified.

Flood Plain: Review of the Federal Emergency management Agency (FEMA) Flood insurance Rate map (FIRM), Map Panel 4805170005C, Panel 5 of 6, dated May 17, 1990 indicated that the northern and central sections of the Subject Property are located in Zone X. Zone X is an area determined to be outside both the 100-year and 500-year flood plains. The southern and easternmost sections of the property, which are bound by Rock Creek Tributary No. 5, are located in Zone A. Zone A is an area inundated by 100-year flooding; however, no Base Flood Elevations (BFEs) have been established. None of the Subject Property buildings appear to be within the flood zone; however, the tank location (Tank 567) in the northeastern corner of the property is located within Zone A. A copy of the FEMA Flood Map is provided as **Figure 15.3.13**.

Radon: Review of the US EPA Map of Radon Zones indicated that the Subject Property is located in Zone 3, which has the lowest potential for indoor radon. A copy of the Radon Map is provided in **Section 15.4.8**.

Potential Wetlands: An approximately 15 square foot area of standing water was observed in a narrow intermittent drainage that separates the Tank #567 area from the rest of the Subject Property. No wetlands vegetation was observed in association with the standing water, and review of the National Wetlands Inventory (NWI) map for the Mineral Wells East, Texas Quadrangle (dated 1992) indicates that the drainage where the standing water was observed is not designated to be a potential wetlands area. No other onsite surface water including streams, ponds or marshy areas were observed or reported during the site reconnaissance; however, Rock Creek Tributary No. 5 forms the southern boundary of the Subject Property and extends along a portion of the eastern boundary, as well. Rock Creek Tributary was dry at the time of **dse's** site reconnaissance, and the tributary is depicted as an intermittent stream on the Mineral Wells East, TX Quadrangle Topographic Map. No wetlands vegetation was observed in association with the dry creek bed. Review of the NWI map shows the Rock Creek Tributary to be a "riverine intermittent streambed, seasonally flooded, excavated." Notation on the map indicates that "intermittent streams may not meet the definition of wetlands." A copy of the NWI map is provided as **Appendix 15.3.17.**

Other than the referenced tributary, review of historical topographic maps and other historical information did not indicate other surface water in proximity to the Subject Property.

9.0 CONCLUSIONS AND RECOMMENDATIONS

In conclusion, **dse** has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) 1527-05 *Environmental Site Assessment, Phase I Environmental Site Assessment Process* and 40 Code of Federal Regulations (CFR) Part 312: *Standards and Practices for All Appropriate Inquiries;* of the Subject Property. Any exceptions to, or deletions from, this practice are described in **Section 10.0** of this report. This assessment has revealed evidence of recognized environmental conditions (RECs) in connection with the Subject Property as follows:

Onsite

- Closure activities for the two former USTs removed from near Building 278 occurred prior to the establishment of current regulatory closure standards; therefore, the former onsite USTs and associated features *do present* a REC to the Subject Property.
- Due to the lack of documentation regarding removal of the two oil storage USTs at "Tank #567", the "Tank #567" USTs *do present* a REC to the Subject Property.
- The sub-grade hydraulic lift and fluid collection pit in Building 541, which could contain PCBs, *do present* a potential REC to the Subject Property.
- Drums and/or containers of oil or related automotive chemicals observed onsite *do present* a potential REC to the Subject Property.
- Potential sand and/or oil traps connecting to the drains in the vehicle wash area and potential connection to a septic system *does present* a potential REC to the Subject Property.
- No other onsite suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

Offsite

- RCRA listed facilities
  - BJ Services Mineral Wells: Based on distance, the 'small quantity' generator status, no recent record of violations, and no visual evidence of exterior storage, the BJ Services Mineral Wells facility's RCRA listing *does not* present a potential REC to the Subject Property.
  - Mineral Wells Shop: Based on the facility's current non-generator and non-violator status, and its approximately 600 foot distance from the Subject Property, the Mineral Wells Shop *does not* present a potential REC to the Subject Property.
- Formerly Used Defense Sites (FUDS)
  - Former Fort Wolters: The Subject Property and surrounding properties were identified on the former Fort Wolters site, which is listed as a FUDS. However, based on review of a 1993 report that indicates activities of environmental concern at Fort Wolters did not occur in

proximity to the Subject Property, the Subject Property's location on the FUDS site *does not* present a potential REC to the Subject Property.

- LPST Sites
  - Adjutant Generals Fort Wolters: Based on distance, gradient, soil only impact, and closed case status, this LPST listed facility *does not* present a potential REC to the Subject Property.
  - Tanks 557A through E: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact, the former Fort Wolters UST site Tanks 557A through E *does present* a potential REC to the Subject Property.
  - Tank 566A: In spite of the closed case status, based on proximity, up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 6 feet below surface), the former Fort Wolters UST site Tank 566A *does present* a potential REC to the Subject Property.
  - Tanks 535A, B, C and D: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site Tanks 535A, B, C and D *does present* a potential REC to the Subject Property.
  - Tank 515A: Based on distance, cross-gradient position relative to the Subject Property, non-groundwater impact, and closed case status, the former Fort Wolters UST site Tank 515A *does not present* a potential REC to the Subject Property.
  - Tank 505A: Based on distance, cross-gradient position relative to the Subject Property, and closed case status, the former Fort Wolters UST site Tank 505A *does not present* a potential REC to the Subject Property.
  - J-W Operating Company: Based on distance, cross-gradient position relative to the Subject Property, and soil only impact, the former USTs at J-W Operating Company *does not present* a potential REC to the Subject Property.
- UST Sites
  - BJ Services Company: In spite of the non-leaking status and removal of the USTs more than 12 years ago, due to proximity and upgradient position relative to the Subject Property, the former USTs at the BJ Services facility *does present* a potential REC to the Subject Property.
  - J-W Operating Company: Based on distance and cross-gradient position relative to the Subject Property, the former USTs at J-W Operating *do not present* a potential REC to the Subject Property.
  - Registered Fort Wolters USTs: In spite of the closed case status, based on proximity, potentially up-gradient position relative to the Subject Property, and groundwater impact (depth to groundwater was noted as 9 feet below surface), the former Fort Wolters UST site (Tanks 535A, B, C and D) *does present* a potential REC to the Subject Property.

- Spills Reported to the Emergency Response Division (SPILLS) Sites
  - Western Company of North America: Based on the 21 years since the spill was reported and the 'minor' release classification, the SPILLS listing for the Western Company of North America site *does not* present a potential REC to the Subject Property.
- No other off-site suspect RECs were discovered during the records review of regulatory databases or historical information or during the site and area reconnaissance or interviews.

Based on the history of suspected and known petroleum impacts that have occurred onsite and offsite, and the potential impacts of Volatile Organic Compounds (VOCs) at some sites, it is **dse's** recommendation that a Phase II surface and subsurface investigation of soils and groundwater is required to define the scope of such environmental impact to the Subject Property.

Conclusion Regarding Onsite BER:

The opinion of the Environmental Professional regarding a known or suspect BER is presented below.

- If vegetation is cleared, it is possible that transformers may be identified. Due to the age of the facility there is a potential for PCBs to be present in the units' dielectric fluids. These units should be the responsibility of the owning utility. Potential for undiscovered transformers onsite presents a Business Environmental Risk (BER) to the Subject Property

Conclusions Regarding Non-ASTM Scope Issues

- **Asbestos:** ACBMs were identified in all eight of the buildings inspected. Conclusions regarding the ACBMs are provided in the stand alone "Targeted Brownfields Assessment Asbestos Containing Building Materials and Lead-Based Paint Inspections" report under separate cover.
- **Lead:** One hundred and five (105) of the three hundred and thirty-six (336) surface samples analyzed contained lead in concentrations ranging from 1 mg/cm^2 to greater than 5 mg/cm^2. Conclusions regarding the identified lead-based paint are provided in the stand alone "Targeted Brownfields Assessment Asbestos Containing Building Materials and Lead-Based Paint Inspections" report under separate cover.
- **Flood Plain**: Based on the absence of structures in the 100-year floodplain identified on-site, the Zone A designation does not present a current BER to the Subject Property. However, if any future construction at the Subject Property occurs in the flood zone area, adherence to FEMA flood zone construction regulations would be required.
- **Radon:** The Zone 3 radon designation does not present a BER to the Subject Property.
- **Potential Wetlands:** Although the NWI map suggests that an intermittent stream may not meet the definition of 'wetlands', without a confirmatory delineation Rock Creek Tributary No. 5 is considered to be a *potentia*l wetlands and, therefore, presents an on-site BER to the

Subject Property. No activity that might disturb or impact the creek area should be conducted prior to the completion of a confirmatory wetlands delineation, and if the creek area was confirmed to be a wetlands, USACE 404 permitting may be required.

10.0 DEVIATIONS

There were no significant deviations to the ASTM E 1527-05 *Environmental Site Assessment, Phase I Environmental Site Assessment Process;* 40 Code of Federal Regulations (CFR) Part 312; and *Standards and Practices for All Appropriate Inquiries*. Site drawings are scaled for relevance but should not be construed as engineering drawings.

11.0 ADDITIONAL SERVICES

11.1 Asbestos Inspection

An asbestos inspection was completed for the Subject Property under separate cover.

11.2 Lead-in-Paint Screening

A lead-in-paint screening was completed for the Subject Property under separate cover.

11.3 Radon

Review of the US EPA Map of Radon Zones indicated that the Subject Property is located in Zone 3. This designation is for areas with an average indoor radon concentration of less than 2 pico Curies per liter of air (pC/l). Based on the unoccupied status of the onsite improvements and published information, as well as the fact that the Subject Property contains no basements or underground facilities, radon does not present a BER and no onsite sampling was conducted. The referenced radon map is presented in **Section 15.4.8.**

11.4 Wetlands

No digital wetlands map was available from online sources. Review of the Topographic Map did not indicate onsite surface water; however, **dse** observed a small amount of standing water located in a narrow drainage on the northeastern corner of the Subject Property that separated the Tank #567 location from the rest of the site. Otherwise, no other surface water, including ponds, streams, or marshy areas, was observed or reported. An intermittent tributary stream, Rock Creek Tributary No. 5, bound the southern and eastern perimeters of the Subject Property. It was observed to be dry at the time of **dse's** site reconnaissance. No other onsite or adjacent surface water including streams, ponds or marshy areas were observed or reported during the site reconnaissance. No surface water, including ponds, streams, or marshy areas, was observed or reported on adjacent properties.

A National Wetlands Inventory (NWI) Map has been ordered from the Texas Natural Resource Information System (TNRIS). Receipt is pending.

12.0 REFERENCES AND ACRONYMS

12.1 References

The following information and published referenced sources relied upon in the preparation of this Phase I ESA. Excerpts of the historical and regulatory sources used in the records review (with the exception of some physiographic and groundwater information) are presented in **Section 15.0**.

1) ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* document designated E 1527-05.

2) 40 Code of Federal Regulations (CFR) Part 312: *Standards and Practices for All Appropriate Inquiries (AAI).*

3) FEMA FIRM, City of Mineral Wells, Texas, Gregg and Rusk Counties, Map Number FM480517 0005 C, dated May 17, 1990.

4) *Physiographic Map of Texas*, Bureau of Economic Geology, dated 1996.

5) USGS *Ground Water Atlas of the United States Oklahoma, Texas HA-730-E,* dated 1996.

6) *Preliminary Assessment Report for Fort Jacob F. Wolters, Installation 48555, Mineral Wells, Texas,* prepared for National Guard Bureau, Army Directorate, by Argonne National Laboratory, dated August 1993.

7) *Petroleum Product Piping Removal and Site Assessment, Fort Wolters, Site No. 578, Mineral Wells, Texas,* prepared for U.S. Army Corps of Engineers by WC Environmental Group, dated January 8, 1996.

8) Tank Removal Documentation for USTs and Petroleum Product Piping removal from the Subject Property in 1991 and 1994, respectively, provided by the USACE.

9) *Water Resources of Parker County*, Texas, U.S. Department of the Interior and U.S. Geological Survey, dated 2004.

10) *Groundwater Quality of Texas, An Overview of Natural and Man-Affected Conditions, Report 89-01*, former Texas Water Commission (now the Texas Commission on Environmental Quality), dated March 1989.

11) NRCS Web Soil Survey (http://websoilsurvey.nrcs.usda.gov), Parker County, Texas, Survey Area Data: Version 8, October 26, 2009.

12) EDR-City Directory Abstract for Ft. Wolters Criminal Justice Property, Inquiry Number 28853552.2, dated October 2, 2010, review of directories dated 1967, 1972 and 1978.

13) Review of Certified Sanborn Map Report for Ft. Wolters Criminal Justice Property, Inquiry Number 2861496.3, prepared by EDR and dated October 4, 2010.

14) *Palo Pinto, Texas Quadrangle*, USGS 30' series topographic map, dated 1891, provided by EDR, Inquiry #2861496.4, dated October 4, 2010.

15) *Mineral Wells, Texas Quadrangle*, USGS 7.5' series topographic map, dated 1959, provided by EDR, Inquiry 2861496.4, dated October 4, 2010.

16) *Mineral Wells East, Texas Quadrangle*, USGS 7.5' series topographic map, dated 1984, provided by EDR, Inquiry 2861496.4, dated October 4, 2010.

17) Aerial photographs dated 1948, 1964, 1976, 1983, 1995, 2004, 2005, and 2006 provided by EDR Inquiry 2861496.5, Dated October 4, 2010.

18) Aerial photograph dated 2008 provided by Google Earth™.

19) EDR Radius Map™ Report with GeoCheck®, EDR Inquiry Number 02885355.1r, dated October 4, 2010.

20) Texas EPA Map of Radon Zones, dated September 23, 2008, downloaded from: http://www.epa.gov/radon/zonemap/Texas.htm

21) "Endangered, Threatened, Proposed and Candidate Species Texas Counties" prepared by USFWS, dated September 2008, recorded on-line at: http://www.fws.gov/Texases/PDFs/CountySpeciesLists/Parker-sp.pdf

22) "Species of Concern in Texas", prepared by the Texas Fish and Wildlife Department, dated January 2005, downloaded at: http://gf.state.wy.us/wildlife/nongame/SpeciesofSpecialConcern/index.asp

23) Annual Drinking Water Quality Report, Mineral Wells Water Department, dated 2009.

24) Interviews of various individuals conducted in May 2010 as presented in **Sections 6.0** and **15.0**.

25) Review of Historical Polk Directories dated 1975, 1978, 9182, 1986, 1988, 1991-92, 1994, 1997, 1998, and 1999 at Mineral Wells Public Library on September 22, 2010; review of Historical Polk Directory dated 1968 at the Weatherford Public Library

12.2 Acronyms

Activity and Use Limitations	AULs

American Society for Testing and Materials	ASTM
Aboveground Storage Tank	AST
Code of Federal Regulations	CFR
Comprehensive Environmental Response, Compensation, and Liability Act	CERCLA
Dougherty Sprague Environmental, Inc.	**dse**
Parker County Clerks Office	PCCO
Mineral Wells Public Library	MWPL
Environmental Data Resources, Inc.	EDR
Environmental Professional	EP
Environmental Protection Agency	EPA
Environmental Site Assessment	Phase I ESA
Federal Emergency Management Agency	FEMA
Flood Insurance Rate Map	FIRM
Heating, Ventilation and Air Conditioning	HVAC
Lead-based Paint	LBP
Polychlorinated Biphenyls	PCBs
Recognized Environmental Conditions	RECs
State Historic Preservation Office	SHPO
Small Quantity Generator	SQG
Texas Commission of Environmental Quality	TCEQ
Texas Natural Resources Information System	TNRIS
Texas Parks and Wildlife Department	TPWD
United States Department of Agriculture	USDA
United States Fish and Wildlife Service	USFWS
United States Geologic Survey	USGS
National Wetlands Inventory Map	NWI
National Priority List	NPL
Federal Delisted National Priorities List	Delisted NPL
Federal Superfund Liens	NPL Liens
Formerly Used Defense Sites	FUDS
Comprehensive Environmental Response, Compensation and Liability Information System	CERCLIS
CERCLIS No Further Remedial Action Planned	CERC-NFRAP
Corrective Action Report	CORRACTS
Resource Conservation and Recovery Act	RCRA
RCRA- Transporters, Storage and Disposal	RCRA-TSDF
RCRA Large Quantity Generator	RCRA-LQG
RCRA Small Quantity Generator	RCRA-SQG
RCRA Conditionally Exempt Small Quantity Generator	RCRA-CESQG
Engineering Controls Site List	EC
Sites with Institutional Controls	IC
Emergency Response Notification System	ERNS
Hazardous Materials Information Reporting System	HMIRS
Solid Waste Facilities/Landfill Sites	SWF/LF
Registered Underground Storage Tanks	USTs

Leaking Petroleum Storage Tanks	LPST
Department of Defense Site	DOD
Records of Decision	ROD
State Superfund Registry	SHWS
Facility- Index System/Facility Identification Initiative Program Summary Report	FINDS
Spills Data	SPILLS
Petroleum Storage Tank Database	AST
Mines Master Index File	MINES
US Brownfields	
Voluntary Cleanup Program	VCP
RCRA Administrative Action Tracking System	RAATS
Toxic Substances Control Act	TSCA
Section 7 Tracking Systems	SSTS
Closed Landfill Inventory	CLI
PCB Activity Database	PADS
Toxic Chemical Release Inventory System	TRIS
Material Licensing Tracking System	MLTS

Abbreviations:

square foot	sf
concrete masonry unit	CMU
picocuries per liter	pCi/L

13.0 SIGNATURES(S) OF ENVIRONMENTAL PROFESSIONAL(S)

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 and I have 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 appropriated inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

11/19/2010

Principal Engineer Cathy West Dougherty, P.E. **Date**

The following personnel have participated in collection of substantial data, collaboration, review and assessment for the Phase I ESA and each are qualified to perform the portion of the assessment which they were responsible.

11/19/2010

Environmental Scientist Sherri Godsey **Date**

11/19/2010

Environmental Scientist/ Project Manager Deborah Farris **Date**

11/19/2010

Environmental Scientist Charlotte Stockard **Date**

14.0 QUALIFICATION(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Resumes and certifications of all personnel who conducted any part of this Phase I ESA are provided in the following pages.

Cathy West Dougherty, P.E.	Principal Engineer
Sherri Godsey	Environmental Scientist
Deborah Farris	Environmental Scientist / Project Manager
Charlotte Stockard	Environmental Scientist/AutoCAD & Research Assistant

Cathy West Dougherty, P.E.

Professional Licenses, Registrations and Appointments

Professional Engineer, License No. 76589, State of Texas.

Principal Engineer, Law Engineering and Environmental Services, Inc. (LAW) now MACTEC, 1996.

LPST Corrective Action Project Manager, License No. CAPM00926, Texas Natural Resource Conservation Commission (TNRCC), now Texas Commission on Environmental Quality (TCEQ).

Wastewater Operator License, License No. 5229, Grade 4-M, State of Massachusetts.

Certified Remediation Specialist, Environmental Assessment Association (EAA), TCEQ Small Business Advisory Committee.

Certification Committee, North Texas Women's Business Council.

Former member, Environmental Board, City of Rowlett, Texas.

Employment History

President, Principal Engineer and Majority Owner, Dougherty Sprague Environmental, Inc. (**dse**), Mineral Wells, Texas, March 1998 - present.

Principal Engineer, LCA Environmental, Inc., Mineral Wells, Texas, 1996 - 1998.

Environmental Division Manager and Principal Engineer, LAW, Mineral Wells, Texas, 1993 - 1996.

Industrial Services Manager, Fugro-McClelland (Southwest), Inc. now ENSR, Mineral Wells, Texas, 1992 - 1993.

Remediation Project Manager, U.S. TEC now GZA Geo-Environmental, Inc., Lexington, Mass., 1991 - 1992.

Environmental Project Manager, Bostik, Inc., a division of Total Chemie (formerly Black & Decker), Middleton, Mass., 1989 - 1991.

Dow Chemical, U.S.A. 1981 - 1989:

Sr., Production Engineer, Environmental and Production Supervisor, Allyns Point Plant, Gales Ferry, CT, 1985 - 1989.

Research Engineer and Technical Field Service Engineer, Granville Research Center, Granville, OH, 1982 - 1985.

Production Engineering Styrofoam Hazardous Waste Coordinator, Hanging Rock Plant, Ironton, OH, 1981 - 1982.

Works Engineer – Environmental, Armco Steel, Ashland, KY, 1979.

Ultrasonic Transducer Prototype Technician, Smith Kline (K.B. Aerotech), Lewiston, PA, 1978.

Thermodynamics Lab Technician, Research and Development, Westinghouse, Pittsburgh, PA, 1977.

Professional Experience

In 1998, Mrs. Dougherty established Dougherty Sprague Environmental, Inc. (**dse**) in Mineral Wells, Texas. She is President, Principal Engineer and majority shareholder (currently owning 100% of **dse**). **dse** is a professional environmental engineering and consulting firm specializing in site assessment and remediation. Mrs. Dougherty has also developed specialty expertise in assessment of dry cleaners and chlorinated solvents, in general. She also has expertise in indoor

air quality issues, and assessment for molds, carpet soiling and specialty indoor toxins. She has over twenty-eight years of environmental, chemical, and mechanical engineering and consulting experience and provides daily technical direction and personnel oversight for the firm's various projects.

Prior to establishing **dse**, she was Principal Engineer at LCA Environmental, Inc. Mrs. Dougherty took a lead role in establishing and implementing the technical aspects of LCA's projects, business and business development, as well as implementation of the total quality management program. She is also a senior technical reviewer for other firms' contributions to LCA projects, and sealed much of LCA's work as a Professional Engineer and TNRCC (now TCEQ) registered Corrective Action Project Manager.

Her twenty-eight years of experience includes over twenty years in the direct management of technical personnel, vendors and project consultants. She has served as Environmental Department Manager, Industrial Services Manager, and Remediation Project Manager for other national environmental consulting firms from 1989-1996. From 1993-1996 she was Division Environmental Manager for Law Engineering and Environmental Services, Inc. (LAW), now MACTEC, in Mineral Wells, Texas. In 1995, she also was confirmed as a Principal with LAW.

Prior to becoming a consultant, Mrs. Dougherty worked in various environmental and manufacturing engineering positions, primarily for chemical plants. As Environmental Project/Compliance Manager for Bostik Adhesives, a Division of Total Chemie (formerly Black & Decker), she directed a small corporate environmental and capital project group, administered plant compliance programs, and developed new programs to cost effectively meet the needs of company plants and the changing regulatory climates. For fourteen years, she held progressively more responsible positions in process engineering, chemical plant production, plant management, wastewater treatment design, and environmental and safety compliance.

Recent key projects include:

- Expert Witness/Documentation Review in the case of Sony Nguyen, Mi Nguyen, Mizozu Corp. and Tchang Corp. vs. Mondial Dry Cleaning Products Inc. d/b/a Union Dry Cleaning Products and Union, S.p.A.. This was a personal injury, damage claim and diminution of property claim against our client. The case was resolved through mediation.

Environmental Specialty Experience

Mrs. Dougherty has provided senior technical leadership, review, and/or environmental project management for a broad range of environmental assessments. These assessments include: Phase I Environmental Site Assessments for property transaction risk screening; Phase II Site Investigations of petroleum underground storage tanks; subsurface hazardous contaminant investigation; and projects related to commercial real estate developments, chemical plants, refineries, bulk terminals, industrial facilities, waste treatment and disposal facilities. Many of these projects have required the direction and coordination of multi-site facilities, with geographically dispersed personnel and various subcontractors assigned to a large variety of tasks and diverse technical goals.

<u>Dry Cleaning Assessments</u>

Mrs. Dougherty has an in-depth knowledge of assessments of dry-cleaning operations and the unique environmental risks associated with commercial facilities and chlorinated solvents. Services provided, conducted, and/or managed by Mrs. Dougherty include: tenants lease renewal inspections, environmental compliance surveys and operations-equipment plans and designs, site investigations and remediation. In addition, Mrs. Dougherty has conducted both in-house and client training in dry-cleaning operation assessments. She has assisted her clients in plan development for risk and liability management for property/portfolios involving dry-cleaning plants.

<u>Soil and Groundwater Remediation</u>

Fourteen years of her experience has specifically included wastewater and groundwater treatment and remediation. She has designed various cost effective, goal oriented remedial systems utilizing destructive, and/or stabilizing treatment technologies including the following treatment types: air stripping, tray-aeration, vapor extraction, air sparging, bioventing, in-situ bioremediation, land-farming, thermal desorption/incineration, granular activated carbon adsorption, surfactant soil washing, stabilization, etc.

She has managed and/or provided technical oversight of corrective action plans in fifteen states, Canada, and Mexico. She has participated in technical review, expert testimony and project design engineering for corrective actions under Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Her "hands-on" practical remediation experience includes a wide range of contaminants including petroleum constituents, pesticides, metals, PCBs, solvents, chlorinated halogens (including DNAPLs used in industry and dry cleaning/textiles), other Volatile Organic Compounds (VOCs), semi-VOCs, radio-nucleotides and asbestos.

Permitting and Regulatory Compliance

Mrs. Dougherty has in-depth knowledge of regulations and permitting for waste reduction, hazardous waste, general OSHA and worker safety, industrial hygiene and other air, wastewater, or solid waste handling and/or permitting compliance requirements. Her industrial programs have won internal and external awards and recognition for innovation in waste reduction and environmental excellence. She has participated in design of new facilities/plants/unit operations for preventive environmental and risk management. This has included preparation of Spill Prevention Countermeasures and Control Plans, NPDES permitting and toxicity reduction investigations. She is familiar with and has used the processes of "Total Quality Management", ISO 14000 and other related quality or statistical process control methods to evaluate and monitor total environmental program effectiveness performance at plant or corporate level.

Asbestos, Lead-based Paint, Mold Assessments & Expert Testimony

Mrs. Dougherty has provided oversight, expert testimony and testing for numerous sites for assessment of indoor air quality, molds, carpet soiling and specialty indoor toxins. These studies have been for both residential and commercial clients with a wide range of problems and complaints.

Mrs. Dougherty's mechanical engineering background and understanding of heating, ventilating and air conditioning design has helped clients to understand and prevent reoccurrence of these problems and eliminate/remediate indoor toxins. She has provided training, remediation specification development and/or oversight to over twenty-five mold or Indoor Air Quality projects, many of which involved litigation.

Publications and Presentations

"Remedial Options for a Dry Cleaner", Dougherty, Clean Scene, January 1995.

"PCE Releases in Dry Cleaners", Dougherty and Wright, LAW Press, 1996.

"Environmental Operations and Management of Dry Cleaners", Dougherty, LAW Press, 1996.

"Remedial Design Considerations for Chlorinated DNAPL", TNRCC Seminar, September 1997.

"RCRA Regulations, A Short Course" Mineral Wells Section, Executive Enterprises, 1997.

"Environmental Assessment and Case Studies of Dry Cleaner Contamination", Dougherty and Sprague, in progress.

Education

1979 - 1981, The Ohio State University, Columbus, Ohio
Bachelor of Science

- Mechanical Engineering with an emphasis on Environmental Control and Pollution Abatement.

1974 - 1977, Carnegie-Mellon University, Pittsburgh, Pennsylvania
Undergraduate Studies

- Engineering.

1998, University of Texas, Austin, Texas
Community MBA

Relevant Continuing Education

Properties of Concrete and Concrete-Making Materials, University of Wisconsin-Extension, Dept. of Engineering and Applied Science, December 1983.

Groundwater Remedial Strategies, Geraghty & Miller, Inc., April 1990.

Forty-hour Hazwoper and Supervisor, OSHA 29 CFR 1910.120, and annual eight-hour refreshers, 2005, since 1993.

Surfactant-Enhanced Aquifer Remediation and Well-Test Methods for Characterizing NAPL Zones, Environmental Education Enterprises, December 1995.

Statistical Processes for Environmental Projects, April 1996.

Bloodborne Pathogens, American Safety & Health Institute, January 2004

American Heart Association Adult CPR, Texas CPR Training, January 2005

Professional Memberships

Society of Texas Environmental Professionals

National Ground Water Association

The Society of American Military Engineers (SAME)

Sherri L. Godsey

Professional Licenses, Registrations and Appointments

Asbestos Inspector, License No. 60-0148, TDSHS

Lead Inspector, License No. 2060755, TDSHS, expired

Storm Water Permits & Pollution Prevention Plan Preparer, Environmental Resource Center, April 3, 1998, Certificate #61628

Employment History

Environmental Scientist, Dougherty Sprague Environmental, Inc. (**dse**), Rowlett, Texas; present

Phase I ESA Project Manager (full-time remote employee), Environmental Management Group (EMG), Hunt Valley, Maryland, July 2002 – December 2007; December 2007 – December 0308

Phase I Project Associate (contractor), LandAmerica Assessment Corporation, Irvine Corporation, March 2008 – December 0308

Phase I ESA Project Manager (contractor), NOVA Consulting Group, Inc., Chaska, Minnesota, March 2008 – December 0308

Environmental Scientist (contractor), Reed Engineering Group, Inc., Dallas, Texas, May 2008 – August 2008

Project Environmental Scientist, LAW Engineering and Environmental Services, Inc., Dallas, Texas, November 1994 – February 2002

Environmental Scientist III, BCM Engineers, Inc., Dallas, Texas, March 1989 – October 1994

Environmental Technician, ARCO Plano Research Facility, Plano, Texas, January 1988 – March 1989

University of Texas at Dallas, Graduate Teaching Assistant (Stratigraphy, Oceanography), June 1986 – December 1988

Professional Experience

Environmental Site Assessments (ESA)

As a Phase I ESA Project Manager at the various listed firms, Ms. Godsey has conducted Phase I Environmental Site Assessments for almost 20 years. ESA's include the review of historical records, aerial photographs, city directory searches, historical or current environmental database review, wetlands maps, geological and hydrological characteristics, etc., as well as site visit and evaluation in accordance with ASTM Standards. Where required, Ms. Godsey has performed limited asbestos surveys, visual mold inspections, radon testing, and water sampling. Ms. Godsey has conducted assessments at residential, commercial, government, and industrial facilities in 38 states, including Hawaii, and in the commonwealth of Puerto Rico.

ESA's are performed during property transactions for residential, commercial, industrial, and government facilities. Clients range from the U.S. Post Office to private property development companies, insurance companies, and residential property purchases.

Recent key projects include:

- Performed ESA's, including limited asbestos, lead paint, and mold surveys, for

Senior Unassisted Living Facilities in New Orleans, Louisiana, which were abandoned after Hurricane Katrina.

- Performed various Phase I Site Assessments for numerous high-rise office buildings located in downtown Dallas prior to purchase of the properties by a major development company.
- Performed ESA's on numerous large luxury hotel facilities as part of a portfolio prior to purchase of the facilities by a major hotel corporation.

Asbestos Inspections

Ms. Godsey is licensed with the State of Texas Department of State Health Services (TDSHS) as an Asbestos Inspector. She has worked on asbestos inspections for commercial and government Clients. Asbestos inspections include visually inspecting all reasonably accessible areas within the building to identify locations of suspect ACBMs, visually categorizing suspect asbestos containing materials into homogeneous groups, determining the friability and condition of the materials, collecting samples of materials from each homogeneous area and submitting the samples for analysis of asbestos content.

Recent key projects include:

- Performed numerous limited asbestos inspections in conjunction with Phase I Environmental Site Assessments at hotels, apartment complexes, and assisted living facilities being sold and renovated for property management companies.

Lead Inspections

Ms. Godsey was previously registered with the State of Texas as a Lead Inspector. She performed lead inspections in conjunction with asbestos inspections at assisted living facilities and apartment complexes. Lead investigations included physical sampling of paint, which is then analyzed at an accredited laboratory and compiled into a report.

Recent key projects (outside of the State of Texas) include:

- Performed limited lead-based paint inspections for Senior Unassisted Living Facilities in New Orleans, LA, which were abandoned after Hurricane Katrina.

Storm Water Prevention Pollution Plans (SWPPP)

Ms. Godsey has written SWPP Plans for construction and industrial sites. These plans are implemented to comply with Federal National Pollution Discharge Elimination System requirements established by the EPA under the auspices of the Clean Water Act. This requires an onsite assessment of a facility's storm water discharge system, hazardous material handling practices, storage practices, etc., and implementation of a best management plan to direct run-off and discharge in a manner that prevents pollution of national waterways.

Key projects include:

- SWPP Plans completed and implemented for a major airline for its airport facilities in Seattle, Washington, and El Paso, Texas.
- Involved in training personnel in appropriate hazardous material and vehicle cleanup practices at U.S. Postal Vehicle Maintenance Facilities in Texas to prevent unauthorized discharges into the national waterways.

Education

Southern Methodist University, Dallas, Texas, 1979
Bachelor of Science

- Anthropology (Departmental Distinction in Archaeology)

As a student in Archaeology, Ms. Godsey was involved in the investigation of a historical site in new Mexico and pre-historic Indian sites in New Mexico and Arizona, completing field work and documentation. As a senior honor student, she completed an independent research paper on a Mayan site in Mexico, and based on that work and an oral exam, graduated with Departmental Distinction. Her archaeological background was particularly applicable to researching a site located near a major river where previous investigations suggested the presence of historical age Indian camps. This type of investigation is required by the Corp of Engineers prior to development of areas where major alterations in the immediate environment could result in the destruction of historical data.

University of Texas at Dallas, Richardson, Texas, 1986 - 1988
Graduate-level Studies

- Geology (Stratigraphy and Microfossils)

Relevant Continuing Education

Accredited Asbestos Building Inspector and Accredited Asbestos Management Planner, University of Texas, Arlington, Texas, Southwest Environmental Education Training (SWEET) Center, March 1990 (Continued Asbestos Inspector Refresher Courses, GEBCO, Irving, Texas through 2009)

Asbestos Analysis by Polarized Light Microscopy, Institute of Asbestos Analysis, North Carolina, 1990

Continuing Education Course: Hazardous Materials I: Waste Compliance Techniques, Richland College, Farmers Branch, Texas, January 27, 1990

Symposium on Indoor Air Pollution, Air and Waste Management Association and the American Industrial Hygiene Association, Dallas, Texas January 30, 1990

Continuing Education Course: HAZMAT II: Hazardous Communication Standard (OSHA), Richland College, Farmers Branch, Texas, February 11, 1990

Continuing Education Course: Site Assessments, Richland College, Farmers Branch, Texas, November 17, 1990

Continuing Education Course: Chemical Analysis of Hazardous Materials, Richland College, Farmers Branch, March 17, 1991

Continuing Education Course: CERCLA and RCRA Laws, Richland College, Farmers Branch, Texas, September 8, 1991

Forty-Hour Hazardous Waste Operations and Emergency Response (HazWOPER), #449-80-2740, Center for Environmental Research & Training, University of Texas at Arlington, January 24, 1992

Basic Risk Management, LAW Engineering and Environmental Services, Dallas, Texas, April 22, 1995

Health & Safety for Hazardous Waste Operations as required by OSHA 29 CFR 1910.120(e), LAW Engineering and Environmental Services, Dallas, Texas, October 120, 1996

EPA's Storm Water Permits & Pollution Prevention Plans, Environmental Resource Center, Certificate #61628, April 3, 1998

38-Hour Army Corps of Engineers Wetland Delineation & Management Training Program (based on USACE 1987 Manual), Richard Chinn Environmental Training, Inc., Certificate #1058, August 9, 1999

HazWOPER Refresher Courses at EHS Consulting completed through 2001

Vapor Intrusion for Phase I ESA's, EMG, April 2008

Professional Memberships

Society of Texas Environmental Professionals (STEP)

Texas Archaeological Society (TAS)

Archaeological Institute of America (AIA)

Project Management and Research

Deborah Farris, CEI

Professional Licenses, Registrations and Appointments

Lead Risk Assessor, Certification No. 2070717, Texas Department of State Health Services (TDSHS)

Asbestos Inspector, License No. 602100, TDSHS

Certified Mold Assessor, Environmental Assessment Association (EAA)

Certified Environmental Inspector (CEI), Certification No. 73510, EAA

Notary Public, State of Texas, Commission Expires: 5/4/2010

Employment History

Phase I ESA Project Manager, Dougherty Sprague Environmental, Inc. (**dse**), Richardson, Texas, April 1998 - present.

Administrative Assistant, Kelly Temporary Agency, Carrollton, Texas, January 1998 - April 1998.

Professional Experience

Environmental Site Assessments and Audits (ESA)

As a Phase I ESA Project Manager at **dse**, Mrs. Farris conducts Phase I Environmental Site Assessments and Audits including review of historical records, aerial photographs, city directory searches, historical or current environmental database review, wetlands maps, etc., as well as site visit and evaluation in accordance with ASTM Standards.

ESA's are performed during property transactions for residential, commercial and government facilities. Clients range from the FDIC and the Parker County Community College District to private property development companies and residential property purchases.

Recent key projects include:

- Performed an extensive Environmental Base Study (EBS) on 1,284 acres of the Louisiana Army Ammunition Plant. The purpose of the EBS was to survey the environmental setting, evaluate the environmental impacts of past practices and assess all areas of interest for the purpose of completing the conveyance of the LAAP from the U.S. Department of Army to the State of Louisiana to the Louisiana National Guard.
- Performed various Phase I Site Assessments for the Parker County Community College District (DCCCD) prior to their purchase of the properties.

Asbestos Inspections

Mrs. Farris is licensed with the State of Texas Department of State Health Services (TDSHS) as an Asbestos Inspector. She has worked on asbestos inspections for commercial, government and military clients. Asbestos inspections include visually inspecting all reasonably accessible areas within the building to identify locations of suspect ACBMs, visually categorizing suspect asbestos containing materials into homogeneous groups, determining the friability and condition of the materials, collecting samples of materials from each homogeneous area and submitting the samples for analysis of asbestos content.

Recent key projects include:

- Performed a comprehensive asbestos inspection of 8-story former hospital facility with intent to renovate and install medical office space at Fort Sam Houston for Weston Solutions, Inc.

- Performed asbestos inspection in conjunction with a Phase I Environmental Site Assessment at a warehouse intended to be sold and renovated for a Dallas-based property management company.

Lead Inspections

Lead in paint is another area of specialty for Mrs. Farris. She has performed many lead inspections, often in conjunction with asbestos inspections, at schools, government, military, and private facilities. Lead investigations included physical sampling of paint, which is then analyzed at an accredited laboratory and compiled into a report.

Recent key projects include:

- Performed a comprehensive lead-based paint inspection for NTB Associates. The site was a building scheduled for renovation to determine the scope of abatement needed prior to renovation.
- Inspected to determine the presence of lead in paint, soil and water in accordance with HUD Guidelines for Weston Solutions, Inc. This investigation included sampling of soil, tap water, physical sampling of paint and XRF sampling of paint inside, and outside of, multiple homes within an EPA Superfund Site area which had potentially been impacted by a smelter plant.

Mold Inspections

Mrs. Farris has also provided testing services for several sites for assessment of molds. These investigations have been for both residential and commercial clients with a wide range of problems and complaints. As of December 2004 The State of Texas began to regulate mold investigations and remediation. Mrs. Farris currently is not authorized by the State of Texas to provide mold investigations for clients that fall under the Texas Rules or any other state's mandated rules.
Fluent in Spanish

Education

1993 - 1997, University of Oklahoma, Norman, Oklahoma
Bachelor of Arts
- English

Double Minor
- Interdisciplinary Perspectives on the Environment
- History

Relevant Continuing Education

Phase I & II Environmental Assessment Training, Health and Environment Technology Center, Moore-Norman Vo-Tech, Norman, Oklahoma, Summer 1997

First Aid/CPR, Separation Systems Consultants, Inc., Mineral Wells, Texas, November 1999

Accredited Asbestos Building Inspector and Accredited Asbestos Management Planner, University of Texas, Arlington, Texas, Southwest Environmental Education Training (SWEET) Center, July 2000

First Aid/CPR and OSHA 10 hr. Safety Training, Separation Systems Consultants, Inc. (SSCI), Mineral Wells, Texas, November 2000

Confined Space, SSCI, December 2000

Asbestos Building Inspector Refresher, University of Texas, Arlington, Texas, SWEET Center, October 12001

Lead-base Paint Inspector, University of Texas, SWEET Center, Arlington, Texas, August 2001

Mold Awareness and Inspection, Environmental Assessment Association (EAA), November

2001

Fourty-hour Hazwoper, SSCI, May 2002

Asbestos Building Inspector Refresher, University of Texas, Arlington, Texas, SWEET Center, October 12002

Eight-hour Hazwoper Refresher, SSCI, December 2002

Asbestos Building Inspector Refresher, University of Texas, Arlington, Texas, SWEET Center, October 12003

First Aid/CPR, SSCI, Mineral Wells, Texas, December 2003

Bloodborne Pathogens, American Safety & Health Institute, January 2004

Eight-hour Hazwoper Refresher, SSCI, January 2004

Asbestos Building Inspector Refresher, Scientific Investigation & Instruction Institute (Si^3), Arlington, Texas, May 2004

Lead Risk Assessor, GEBCO Associates, Inc., Hurst, Texas, April 2004

Asbestos Building Inspector Refresher, GEBCO Associates Inc., Hurst, Texas, October 12005

Eight-hour Hazwoper Refresher, www.HazmatSchool.com, January 2005

American Heart Association Adult CPR, Texas CPR Training, January 2005

US Army Corp of Engineers, Construction Quality Management for Contractors Training, August 2005

Eight-hour Hazwoper Refresher, www.OSHACAMPUS.com, February 2006

Basic First Aid, CPR Today! Inc., February 2006

Asbestos Building Inspector Refresher, Scientific Investigation & Instruction Institute (Si^3), Arlington, Texas, October 12006

Professional Memberships

Environmental Assessment Association (EAA)

Society of Texas Environmental Professionals (STEP)

AutoCAD Drafting and Research Assistance

Charlotte Stockard

Employment History

Environmental Scientist, Dougherty Sprague Environmental, Inc. (**dse**), March 2010 – present

Intern, Dougherty Sprague Environmental, Inc. (**dse**), May 2009 – March 2010

Intern, CLEAResult, Inc., May 2008 – August 2008

Professional Experience

Environmental Site Assessments (ESA)

As an Intern and Environmental Scientist with **dse**, Ms. Stockard has assisted with multiple Phase I ESAs, performing historical research, securing aerial photographs, map documentation and report preparation.

AutoCAD/Figure drafting support

Ms. Stockard has assisted with AutoCAD® and figure drafting for several projects while at **dse**.

Recent projects include:

- Fort Worth Independent School District (Fort Worth ISD): Prepared AutoCAD® drawings for asbestos abatement inspection reports for Fort Worth ISD.
- City of Dallas MS4 Permit Sampling: Assisted with mapping, editing and revising of AutoCAD® drawings; data manipulation and assisted with water and soil sampling.
- Naval Weapons Industrial Reserve Plant (NWIRP) Biowall Sampling, McGregor: Assisted with map preparation using AutoCAD® and GIS software and provided field office support and record keeping for the field personnel.

Education

Texas A&M University, College Station, Texas, 2009
Bachelor of Science in Environmental Studies, Minors in Geography and Earth Science

Relevant Continuing Education

AutoCAD Fundamentals 2010, ECAD, Inc., March 2010

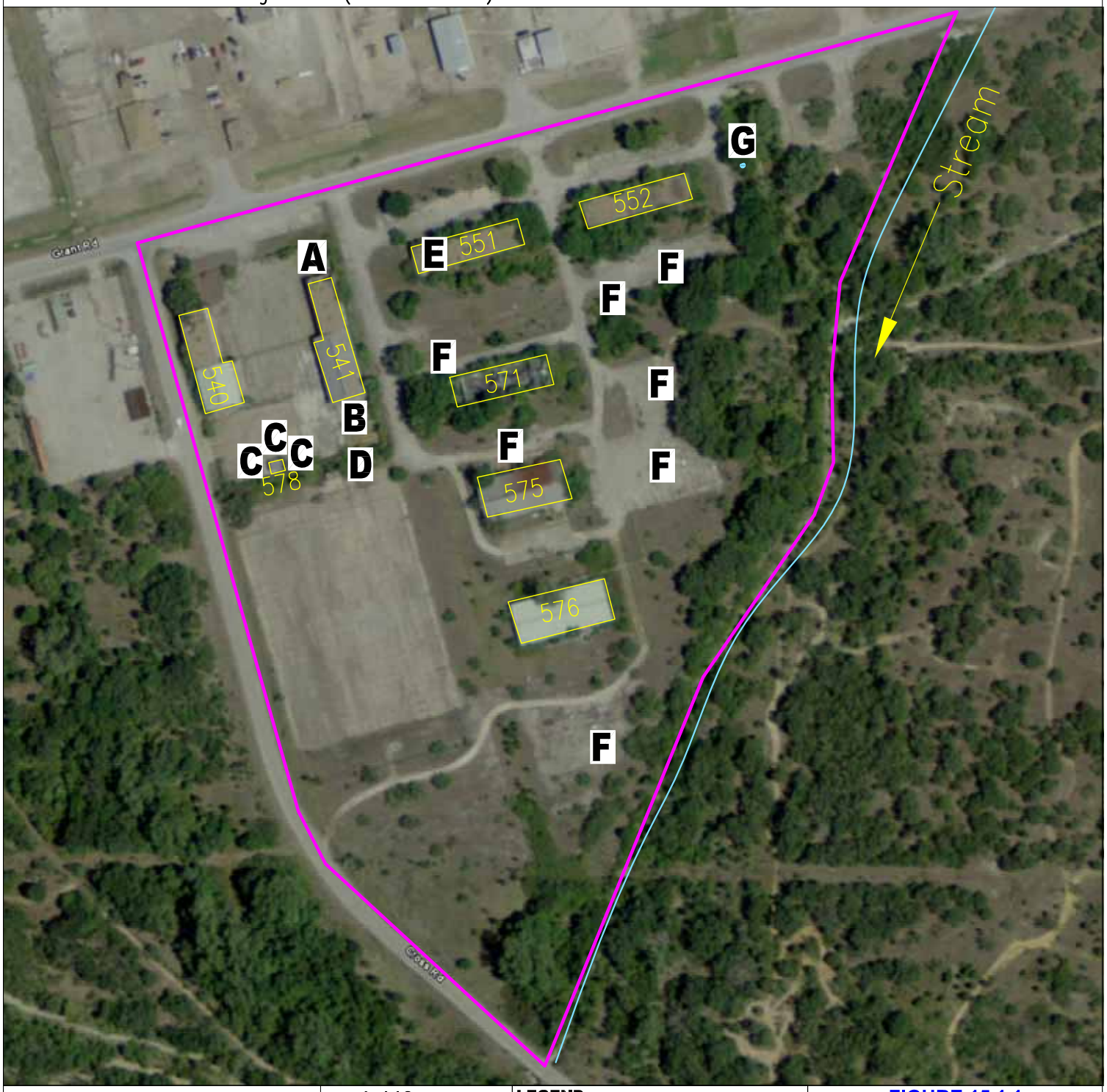
15.0 APPENDICES

15.1 Site Maps

15.1.1 – On-Site Property Map
15.1.2 – Site Vicinity Map
15.1.3 – Site Location Map

Site Observations

A. Vehicle wash area
B. Vehicle wash area–has drains to potential sand traps (See Photo 17)
C. Former UST locations where tanks and piping were removed (See Photo 20)
D. Drum with used oil filters, no lid (See Photo 19)
E. Small holes in concrete floor in Room 11 of Building 551 (potential termite pesticide placement) (See Photo 24)
F. Construction and general trash in small piles (See Photos 28 and 30)
G. Small area of standing water (See Photo 38)



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APPROX. SCALE	DRAWN	DATE	PROJECT
1"=200'	CS	10/8/10	1037503

Aerial Source:
Google Earth
April 2008

N

0' 200'
APPROXIMATE SCALE IN FEET

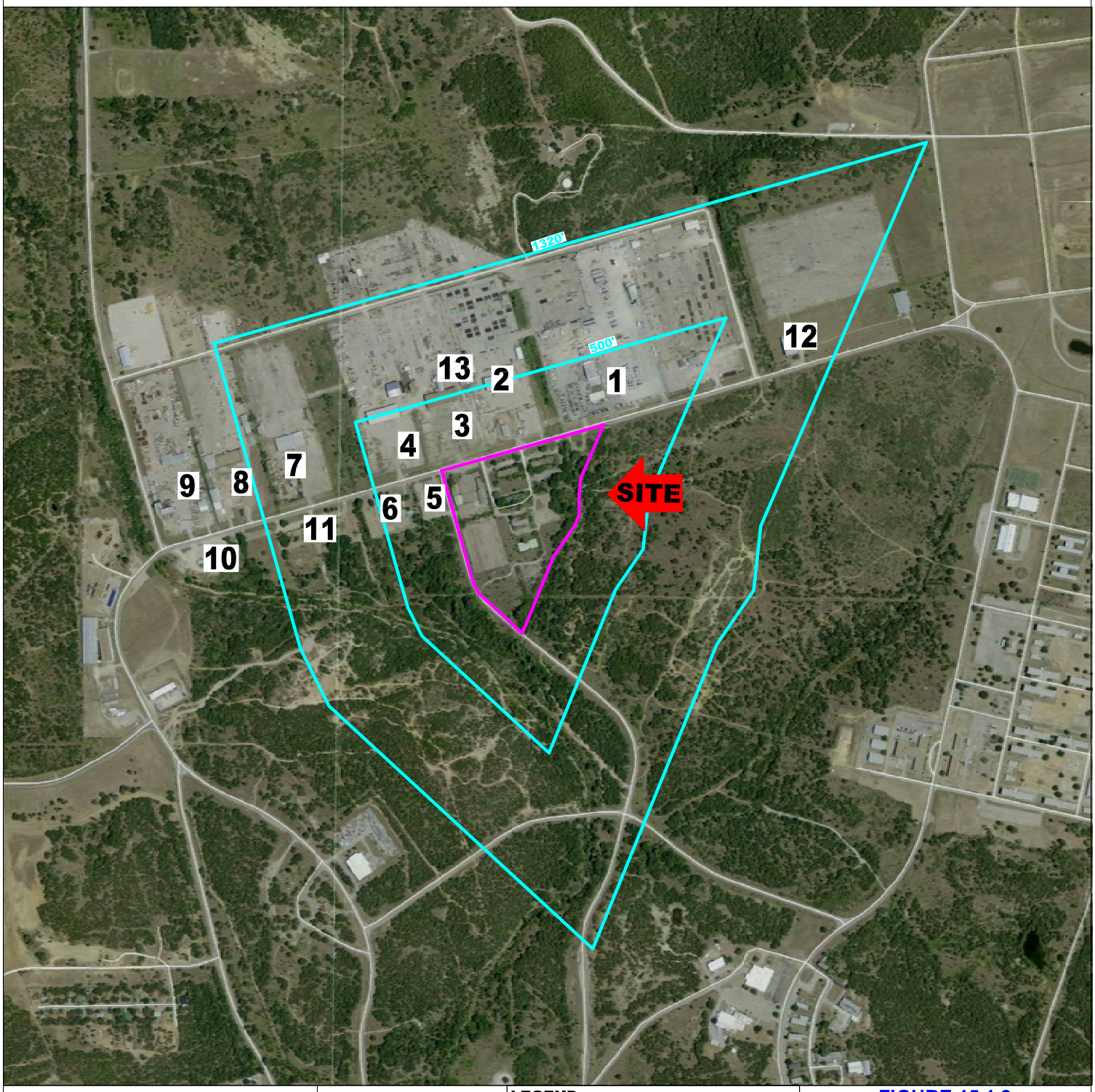
LEGEND
Subject Property Boundary
A Site Observation

FIGURE 15.1.1
ON-SITE PROPERTY MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

Site Vicinity Observations

1. APT Flight School offices
2. B.J. Oil Field Services (RCRA–SQG/FINDS/Bldg 553 SPILLS) (LPST; UST removed)
3. Watkins Metal Fabrication (UST removed)
4. Ventamatic Warehouse (LPST; UST removed)
5. Vacant paved lot
6. Lanntex Electric
7. Tru–Test IHW (UST removed)
8. Performance Powder Coating (UST removed)
9. Tank, Inc. (LPST; UST removed)
10. Edwards Engines
11. Vacant buildings
12. E.L. Farmer
13. Mineral Wells Shop (RCRA–non–generator/FINDS) (LPST; UST removed)



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Rowlett, Texas 75088

MANAGER	APP. DATE	FILE NAME	
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APPROX. SCALE	DRAWN	DATE	PROJECT
1"=1000'	CS	10/8/10	1037503

Aerial Source:
Google Earth™
mapping services

0' 1000'
APPROXIMATE SCALE IN FEET

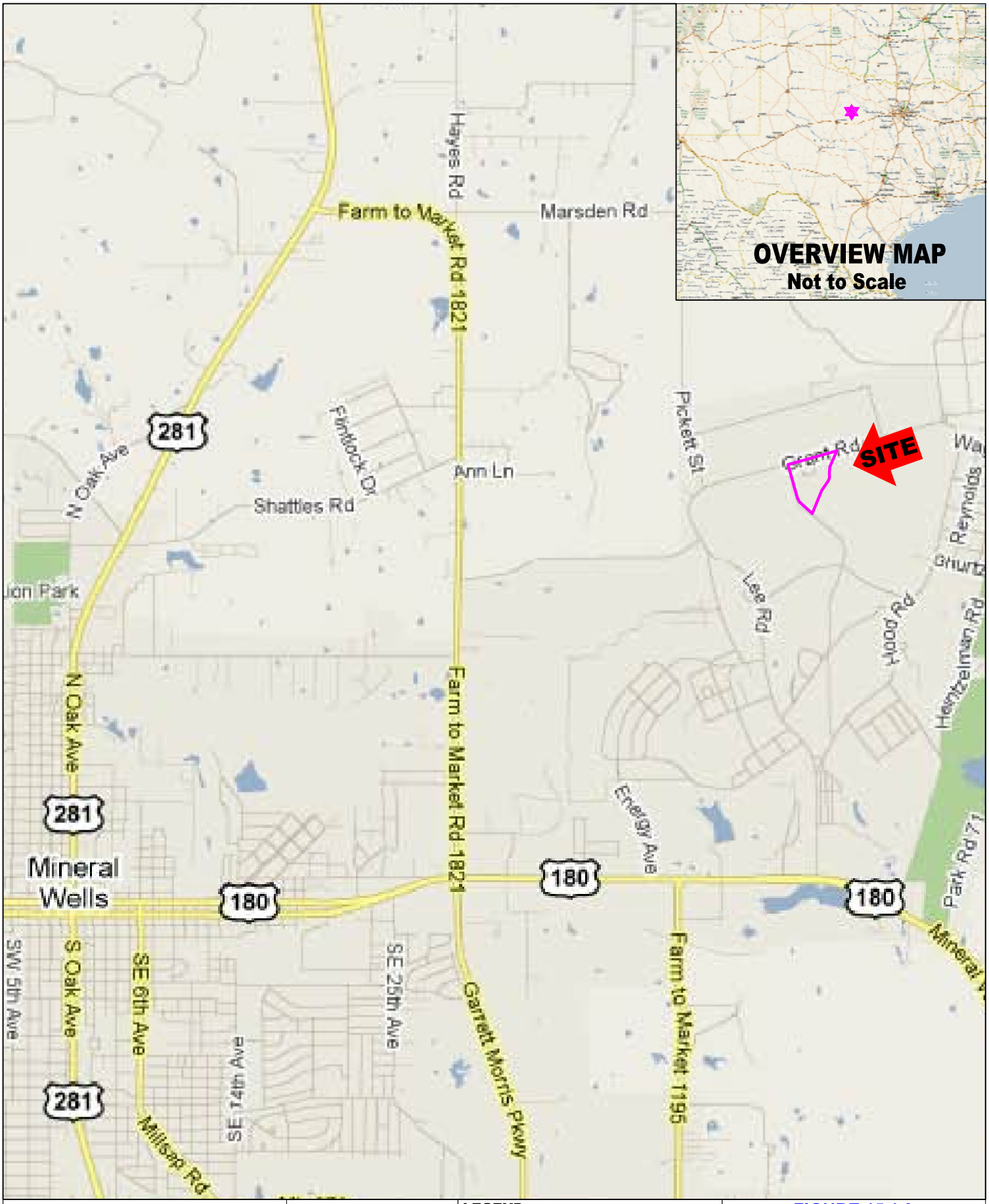
N

LEGEND

Subject Property Boundary
500' and 1/4 mile radius
1 Site Vicinity Observation

FIGURE 15.1.2
SITE VICINITY MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.1.3	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=3000'	CS	10/8/10	1037503

Source:
Google Maps

N

0' 3000'
APPROXIMATE SCALE IN FEET

LEGEND
Subject Property Boundary

FIGURE 15.1.3
SITE LOCATION MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

15.2 Site Reconnaissance Photos

PHOTO LOG

PHOTO 1 ►

View of front side of Bldg. 540, south section. This section of the structure is constructed of steel.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: West-Southwest

PHOTO 2 ►

View of south end of the south section of Bldg. 540 showing exterior gas cylinder storage cages and two cylinders still in the cage..

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: West-Northwest

PHOTO 3 ►

View of Bldg. 540 south section interior; floor drains were observed.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO LOG

PHOTO 4 ►

View of trash observed inside Bldg. 540, south section. Pile includes general household trash and a few cans of Mobil Oil/ Lubricant

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 5 ►

View of a motor part and oily stain on the concrete in Bldg. 540, south section.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 6 ►

View of front of Bldg. 540, north section. This section of the structure is constructed of wood.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Southwest

PHOTO LOG

PHOTO 7 ►

View of interior of Bldg. 540, north section. Floor drains were observed. A portion of the roof has collapsed on the north end (arrow).

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 8 ►

View of damage in an office located on the north end of Bldg. 540, north section.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 9 ►

View of Bldg. 541 showing north section (at left) constructed of wood, and the south section (at right) constructed of steel.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Southeast

PHOTO LOG

PHOTO 10 ►

View of interior of Bldg. 541, south section. The small yellow drum at the lower left still contains oil, and an oily stain is visible on the concrete around the drum. Floor drains were observed.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 11 ►

View of a hydraulic lift inside the south section of Bldg. 541.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 12 ►

View of potential fluid collection pit located in proximity to the hydraulic lift in Bldg. 541, south section.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO LOG

PHOTO 13 ►

View of two drums still containing oil and/or chemicals located inside Bldg. 541, south section. The bungs were off both drums. No staining was evident around the drums.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 14 ►

View of interior of Bldg. 541, north section. Floor drains were observed.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 15 ►

View of northwest corner of Bldg. 541, north section, showing some dry storage, a paint can, etc. At right (background) is a badly damaged office.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO LOG

PHOTO 16 ►

View of the office area in the northeast corner of Bldg. 541, north section, showing typical damage .

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 17 ►

View of area adjacent to the south end of the south section of Bldg. 541, showing a vehicle wash area. The drains at the center of each wash station likely connect to oil/sand traps.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: East-Northeast

PHOTO 18 ►

View of exterior wash-rack (on side, the rack is enclosed) that possibly served as an auto parts washer.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: East-Northeast

PHOTO LOG

PHOTO 19 ►

View of drum containing used oil filters located south of Bldg. 541.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: South-Southeast

PHOTO 20 ►

View of front of Bldg. 578.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: South-Southeast

PHOTO 21 ►

View of small area of trash observed in the east room of Bldg. 578.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Northeast

PHOTO LOG

PHOTO 22 ►

View of back side of Bldg. 551.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: North-Northwest

PHOTO 23 ►

View of typical interior area of Bldg. 551.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 24 ►

View of typical 9”x9” floor tile and holes that are interpreted as drillings placed to insert insecticide for termites. The holes were observed in the two westernmost rooms of Bldg. 551.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO LOG

PHOTO 25 ►

View of front of Bldg. 552.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: East-Southeast

PHOTO 26 ►

View of one room of Bldg. 552 showing typical damage.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 27 ►

View of 9”x9” floor tile observed in almost all of the Bldg. 552 rooms.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO LOG

PHOTO 28 ►

View of one pile of trash observed amid numerous piles of trash located behind Bldg. 552 (in background).

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: North-Northwest

PHOTO 29 ►

View of Bldg. 571. The ceiling and interior walls were collapsed. Some exterior walls were in place.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Southwest

PHOTO 30 ►

View of former parking area in the south section of the property, south of Bldg. 576. The area contains dumped furniture and construction materials (wood, brick, floor tile), and a few empty paint cans. The floor tile and some vinyl flooring may contain asbestos.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: South-Southeast

PHOTO LOG

PHOTO 31 ►

View of Bldg. 575.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: West-Northwest

PHOTO 32 ►

View of interior of Bldg. 575. The same 9”x9” floor tile observed in Bldgs. 551 and 552 were used in this building.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 33 ►

View of Bldg. 576.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Northeast

PHOTO LOG

PHOTO 34 ►

View of interior of Bldg. 576. 9”x9” floor tile typical to the Property was observed.

Taken by: Sherri Godsey
Date: 9/21/2010

PHOTO 35 ►

View of the former ‘hardstand’ area where large vehicles were parked.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: West-Northwest

PHOTO 36 ►

View of former fuel tank area (Tank #567) where reportedly two oil storage USTs were located.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: South-Southeast

PHOTO LOG

PHOTO 37 ►

View of pipe-head on top of concrete pad in former Tank #567 area. Use of the pipe-head is undetermined.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: East-Northeast

PHOTO 38 ►

View of small area (approximately 15 square feet) of standing water in narrow drainage adjacent to the east of the Tank #567 area.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: Southwest

PHOTO 39 ►

View of adjacent property to the northwest across Grant Road. This was taken near the northeast corner of the Subject Property.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: North-Northeast

PHOTO LOG

PHOTO 40 ►

View of property adjacent to the northwest across Grant Road.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: North-Northwest

PHOTO 41 ►

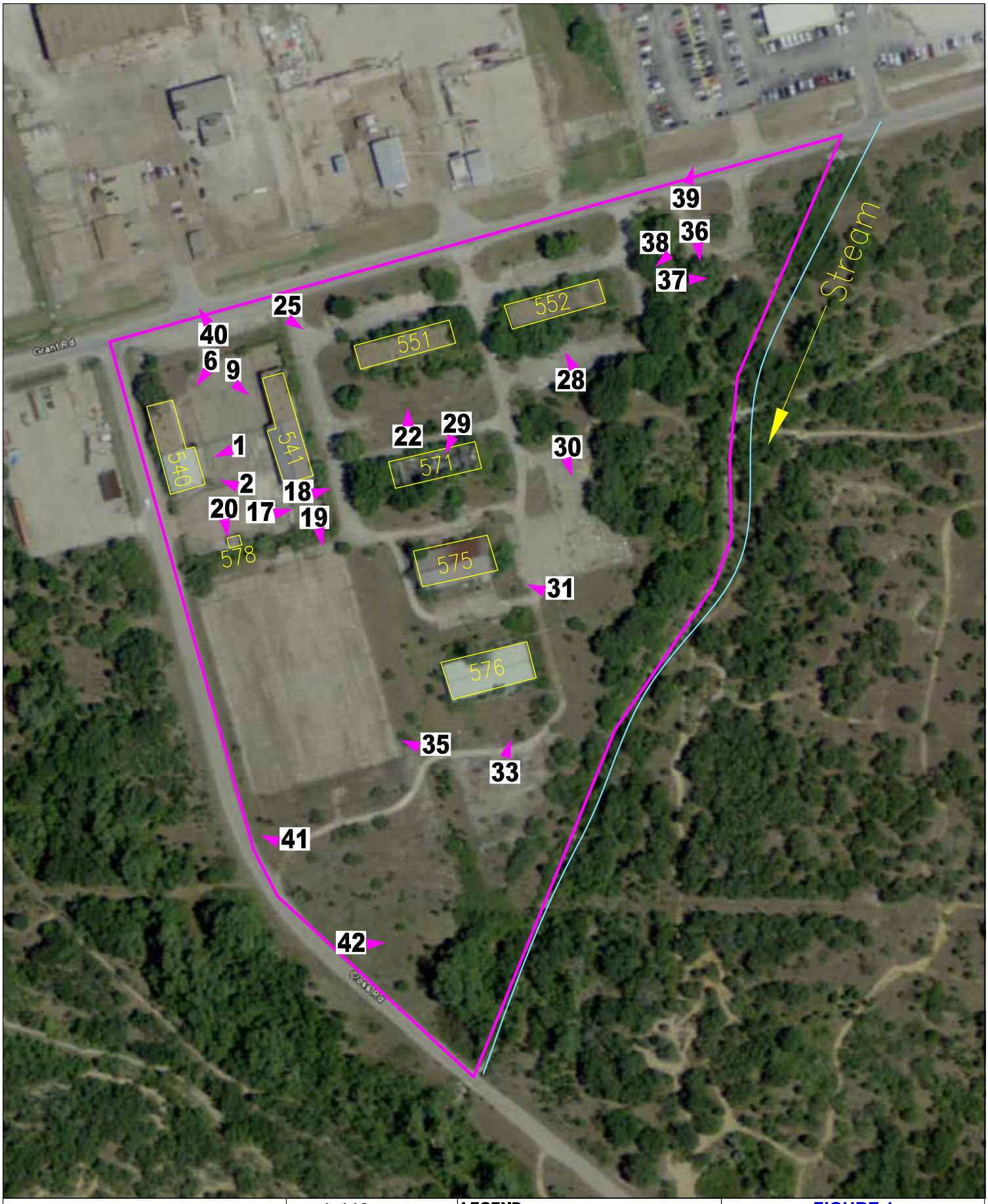
View of undeveloped, wooded property adjacent to the west of the Subject Property across Cross Post Road.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: West-Northwest

PHOTO 42 ►

View of undeveloped southwest section of the Subject Property.

Taken by: Sherri Godsey
Date: 9/21/2010
Direction: East



dse Dougherty Sprague Environmental, Inc. 3902 Industrial Street, Suite A Rowlett, Texas 75088			
MANAGER	APP. DATE	FILE NAME	
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APPROX. SCALE	DRAWN	DATE	PROJECT
1"=200'	CS	10/8/10	1037503

Aerial Source:
Google Earth
April 2008

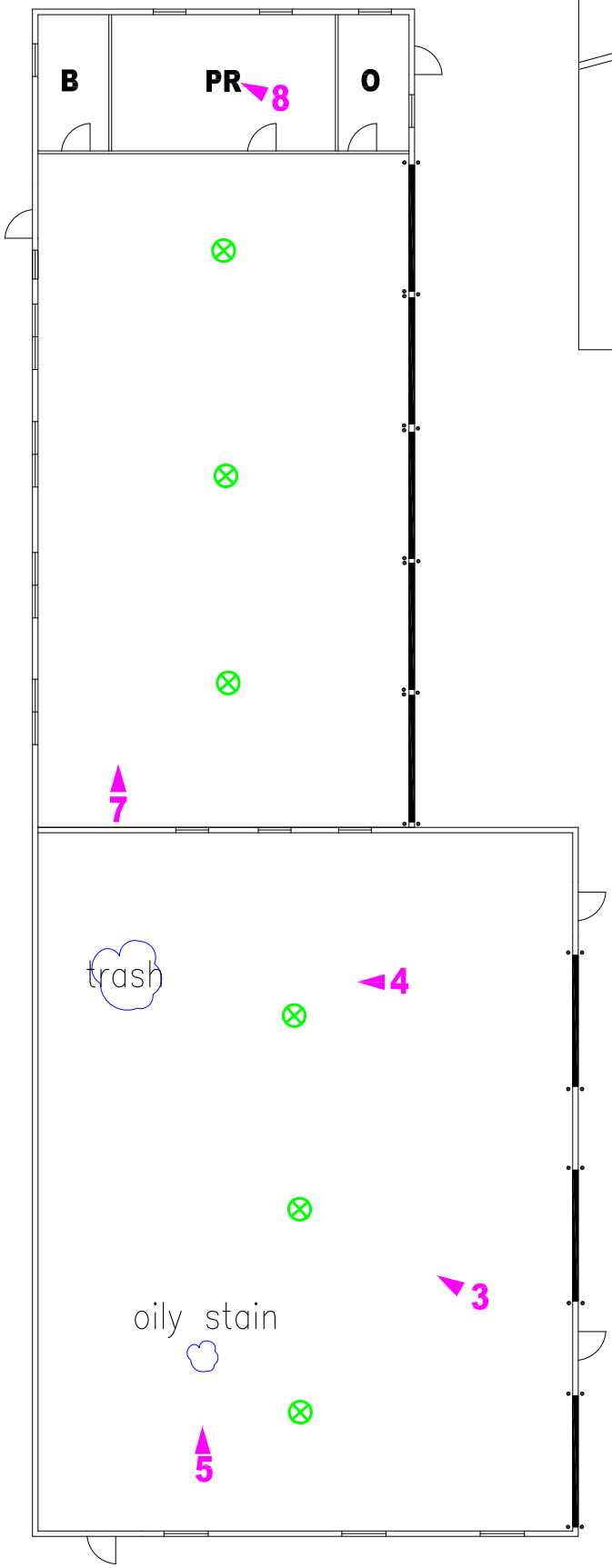
N

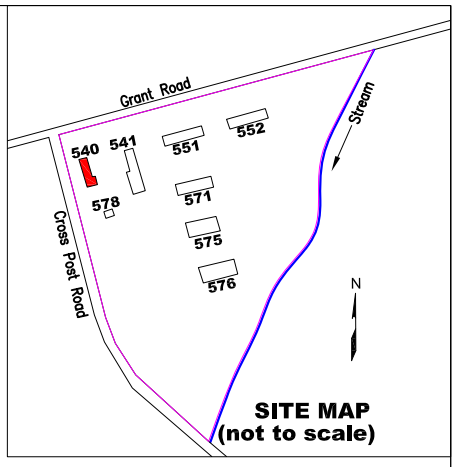
0' 200'
APPROXIMATE SCALE IN FEET

LEGEND
Subject Property Boundary
1 Photo # & Direction

FIGURE 1
SITE PROPERTY MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG2	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=16'	CS	10/8/10	1037503

N

0' 16'

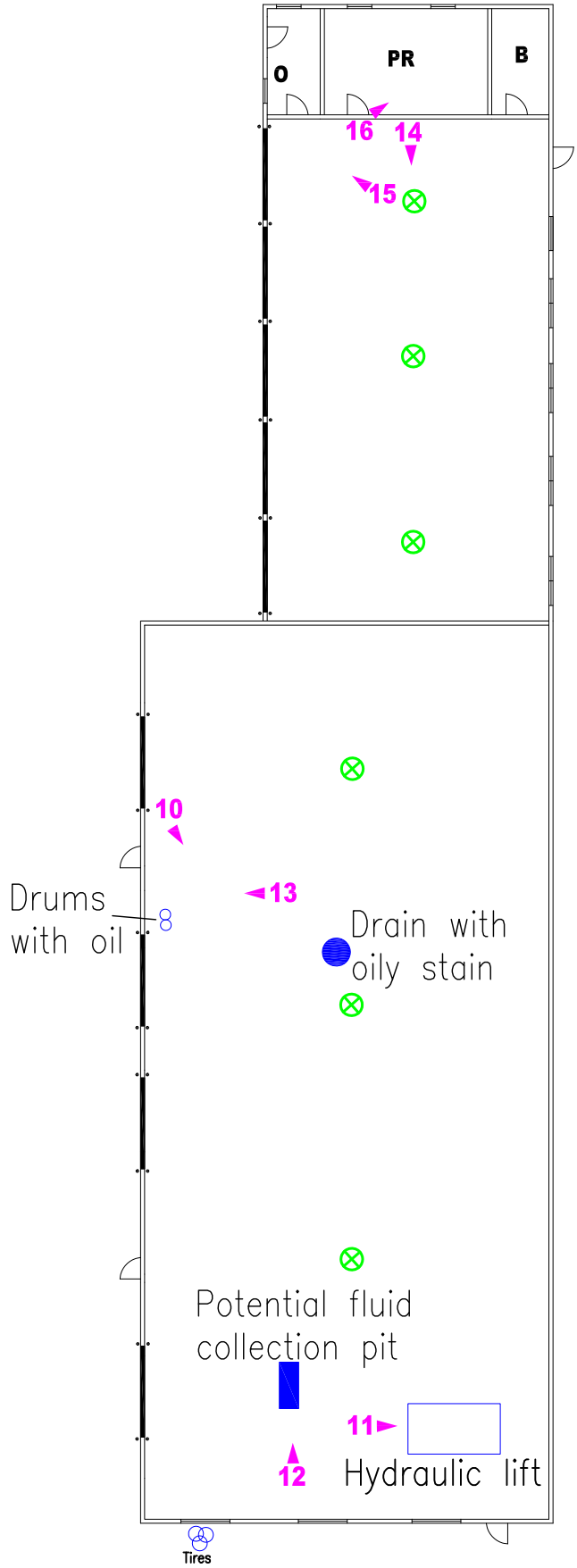
APPROXIMATE SCALE IN FEET

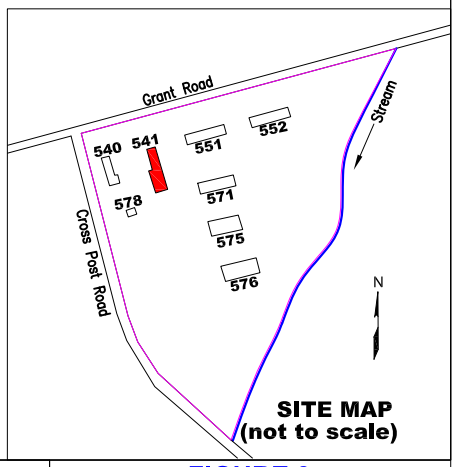
LEGEND

- **O** Office
- **B** Bathroom
- **PR** Parts room
- **1** Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- Concrete post
- **Floor drain**

FIGURE 2
Building 540

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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Rowlett, Texas 75088

MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG3	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=21'	CS	10/8/10	1037503

0' 21'
APPROXIMATE SCALE IN FEET

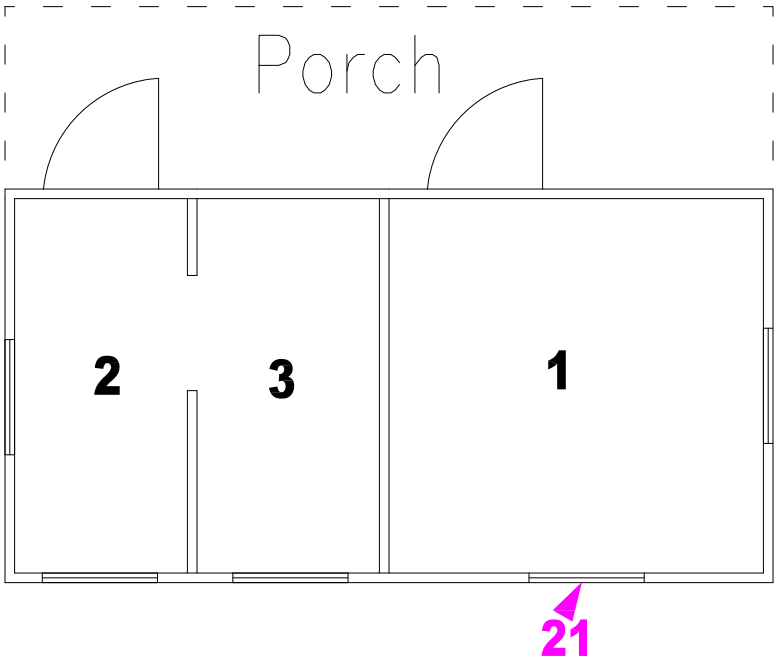
N

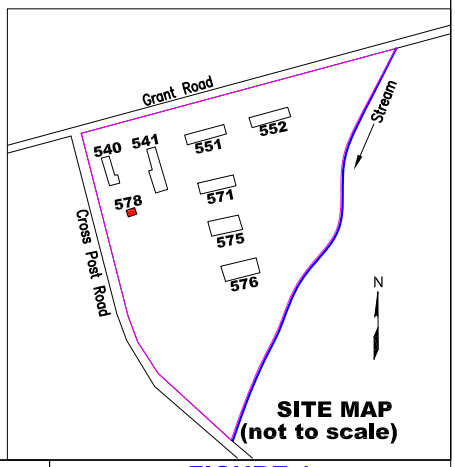
LEGEND

- O Office
- B Bathroom
- PR Parts room
- 1 Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- Concrete post
- Floor drain

FIGURE 3
Building 541

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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Rowlett, Texas 75088

MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG4	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=5'	CS	10/8/10	1037503

0' 5'
APPROXIMATE SCALE IN FEET

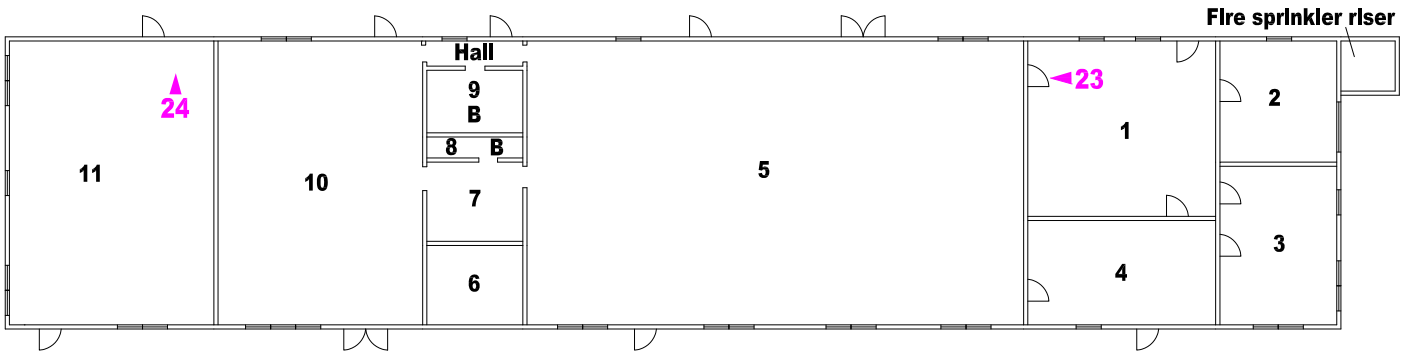
N

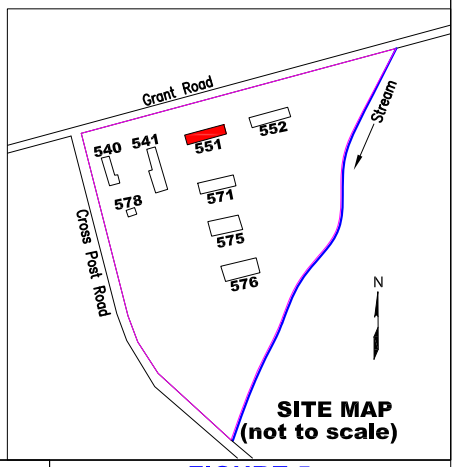
LEGEND

- **O** Office
- **B** Bathroom
- **PR** Parts room
- **1** Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 4
Building 578

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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Rowlett, Texas 75088

MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG5	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=23'	CS	10/8/10	1037503

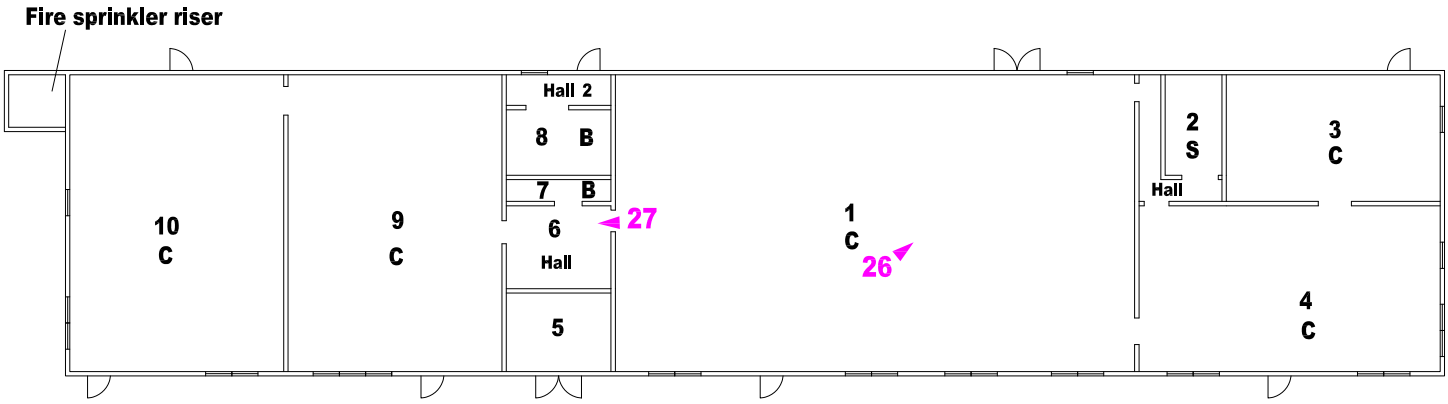
0' 23'
APPROXIMATE SCALE IN FEET
N

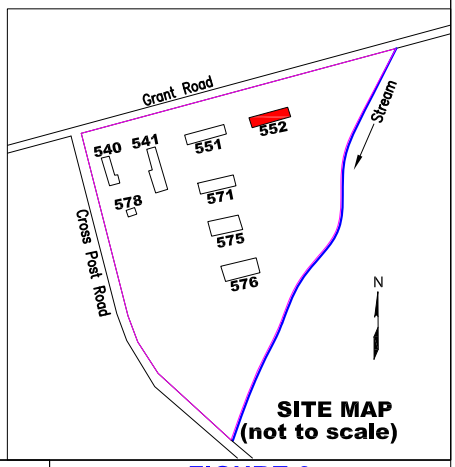
LEGEND

- O Office
- B Bathroom
- PR Parts room
- 1 Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 5
Building 551

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG6	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=22'	CS	10/8/10	1037503

N

0' 22'

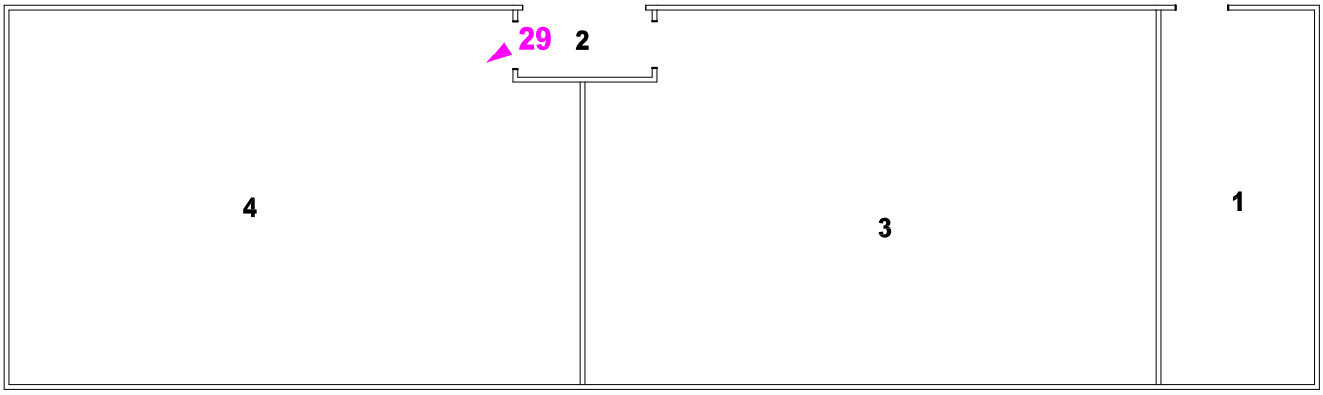
APPROXIMATE SCALE IN FEET

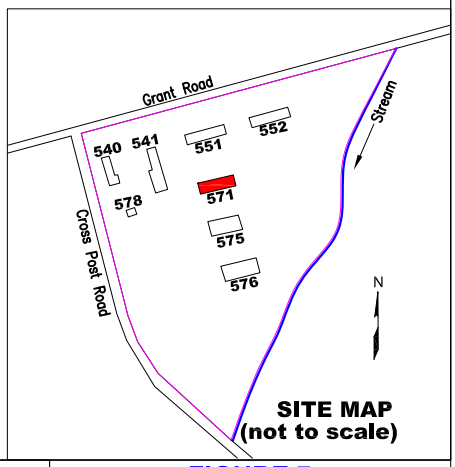
LEGEND

- O Office
- B Bathroom
- PR Parts room
- 1 Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 6
Building 552

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG7	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=20'	CS	10/8/10	1037503

0' 20'
APPROXIMATE SCALE IN FEET

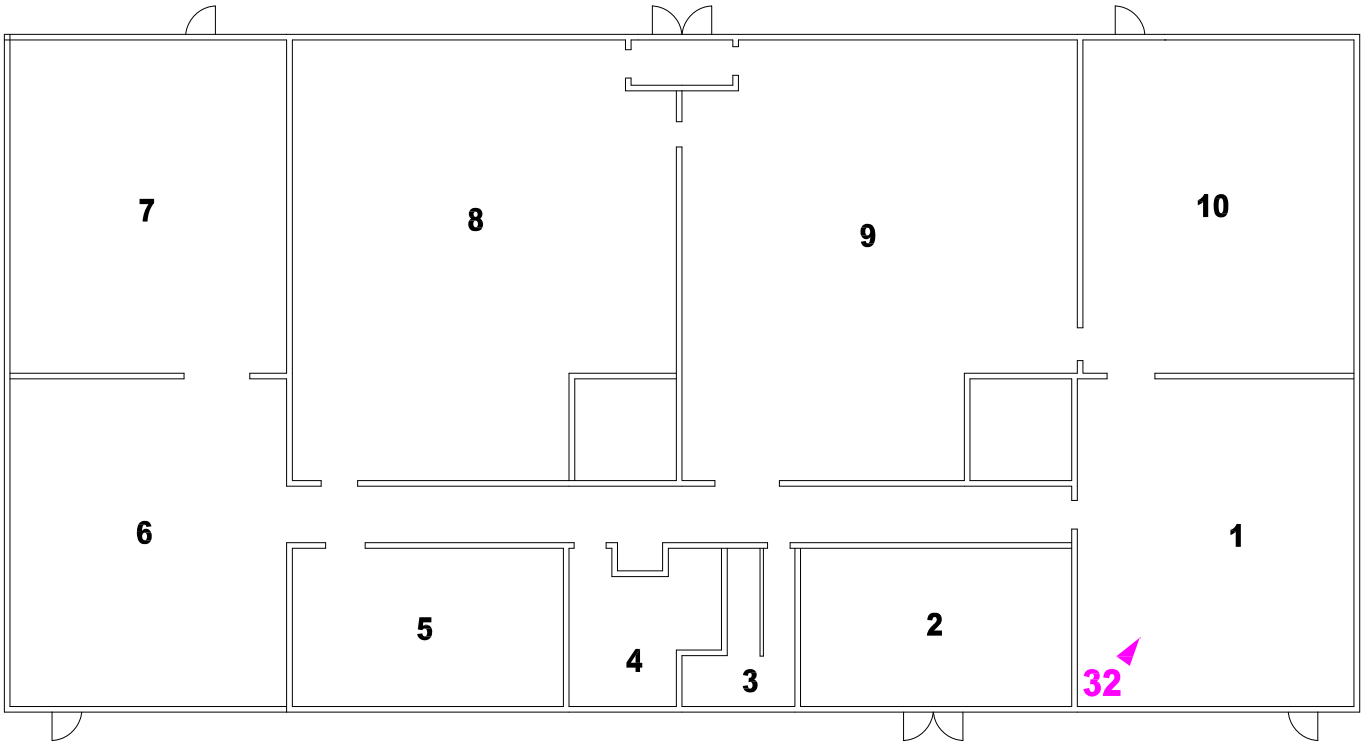
N

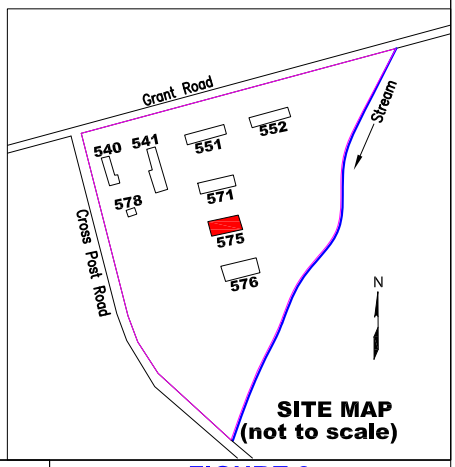
LEGEND

- **O** Office
- **B** Bathroom
- **PR** Parts room
- **1** Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 7
Building 571

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





dse

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG8	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=17'	CS	10/8/10	1037503

0' 17'
APPROXIMATE SCALE IN FEET

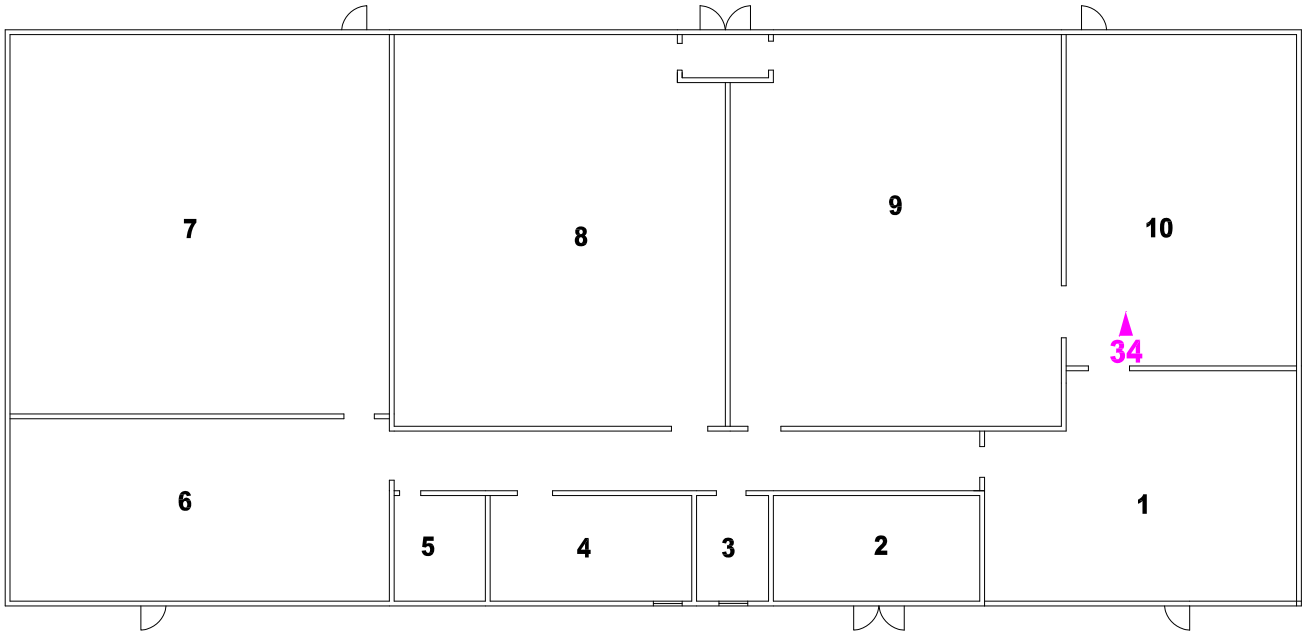
N

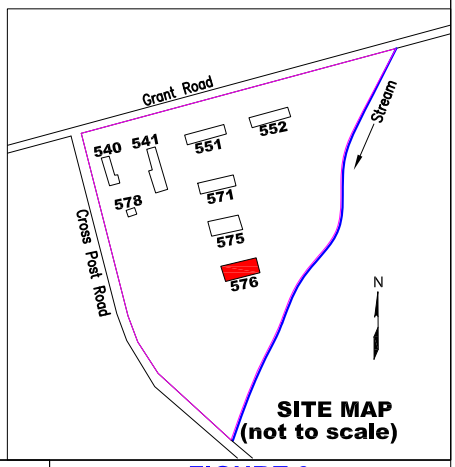
LEGEND

- O Office
- B Bathroom
- PR Parts room
- 1 Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 8
Building 575

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067





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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–FIG9	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=20'	CS	10/8/10	1037503

0' 20'
APPROXIMATE SCALE IN FEET

N

LEGEND

- O Office
- B Bathroom
- PR Parts room
- 1 Room number
- ◄1 Photo # & Direction
- Window
- Service bay doors
- ● Concrete post

FIGURE 9
Building 576

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

15.3 Figures

15.3.1 – 1948 Aerial Photograph
15.3.2 – 1964 Aerial Photograph
15.3.3 – 1976 Aerial Photograph
15.3.4 – 1983 Aerial Photograph
15.3.5 – 1995 Aerial Photograph
15.3.6 – 2004 Aerial Photograph
15.3.7 – 2005 Aerial Photograph
15.3.8 – 2006 Aerial Photograph
15.3.9 – 2008 Aerial Photograph
15.3.10 – 1891 Topographic Map
15.3.11 – 1959 Topographic Map
15.3.12 – 1983 Topographic Map
15.3.13 – 1984 Topographic Map
15.3.14 – FEMA Map
15.3.15 – Soil Survey Map
15.3.16 – Geologic Map
15.3.17 – Wetlands Map

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.1	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=550'	CS	10/8/10	1037503

N

0' 550'

APPROXIMATE SCALE IN FEET

LEGEND

Subject Property Boundary

Aerial Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.5, Date: 10/04/2010
Flight year: 1948

FIGURE 15.3.1
1948 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.2	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=1500'	CS	10/8/10	1037503

N

0' 1500'

APPROXIMATE SCALE IN FEET

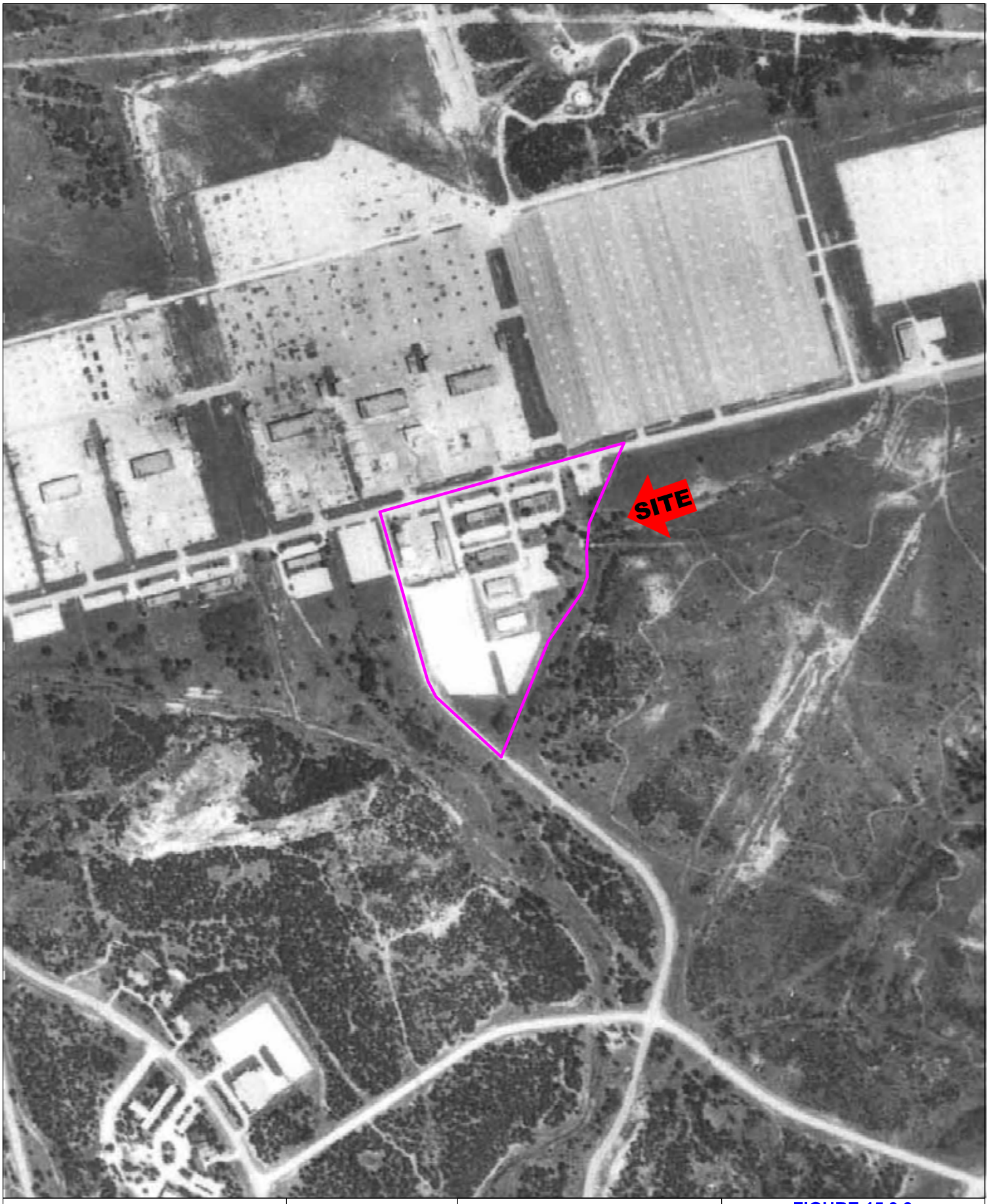
LEGEND

Subject Property Boundary

Aerial Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.5, 10/4/2010
Flight year: 1964

FIGURE 15.3.2
1964 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.3	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=600'	CS	10/8/10	1037503

N

0' 600'

APPROXIMATE SCALE IN FEET

Aerial Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.5, 10/4/2010
Flight year: 1976

FIGURE 15.3.3
1976 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.4	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=700'	CS	10/8/10	1037503

N

0' 700'

APPROXIMATE SCALE IN FEET

LEGEND

Subject Property Boundary

Aerial Source:
Environmental Data Resources, Inc. (EDR)
Inquiry#: 2732688.5, March 31, 2010
Flight year: 1970

FIGURE 15.3.4
1983 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.5	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=500'	CS	10/8/10	1037503

N

0' 500'

APPROXIMATE SCALE IN FEET

LEGEND

Subject Property Boundary

Aerial Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.5, Date: 10/4/2010
Flight year: 1995

FIGURE 15.3.5
1995 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.6	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=600'	CS	10/8/10	1037503

N

0' 600'

APPROXIMATE SCALE IN FEET

LEGEND

Subject Property Boundary

Aerial Source:
Google Earth Mapping Service
Aerial photograph date: 11/13/2004

FIGURE 15.3.6
2004 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.7	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=600'	CS	10/8/10	1037503

N

0' 600'

APPROXIMATE SCALE IN FEET

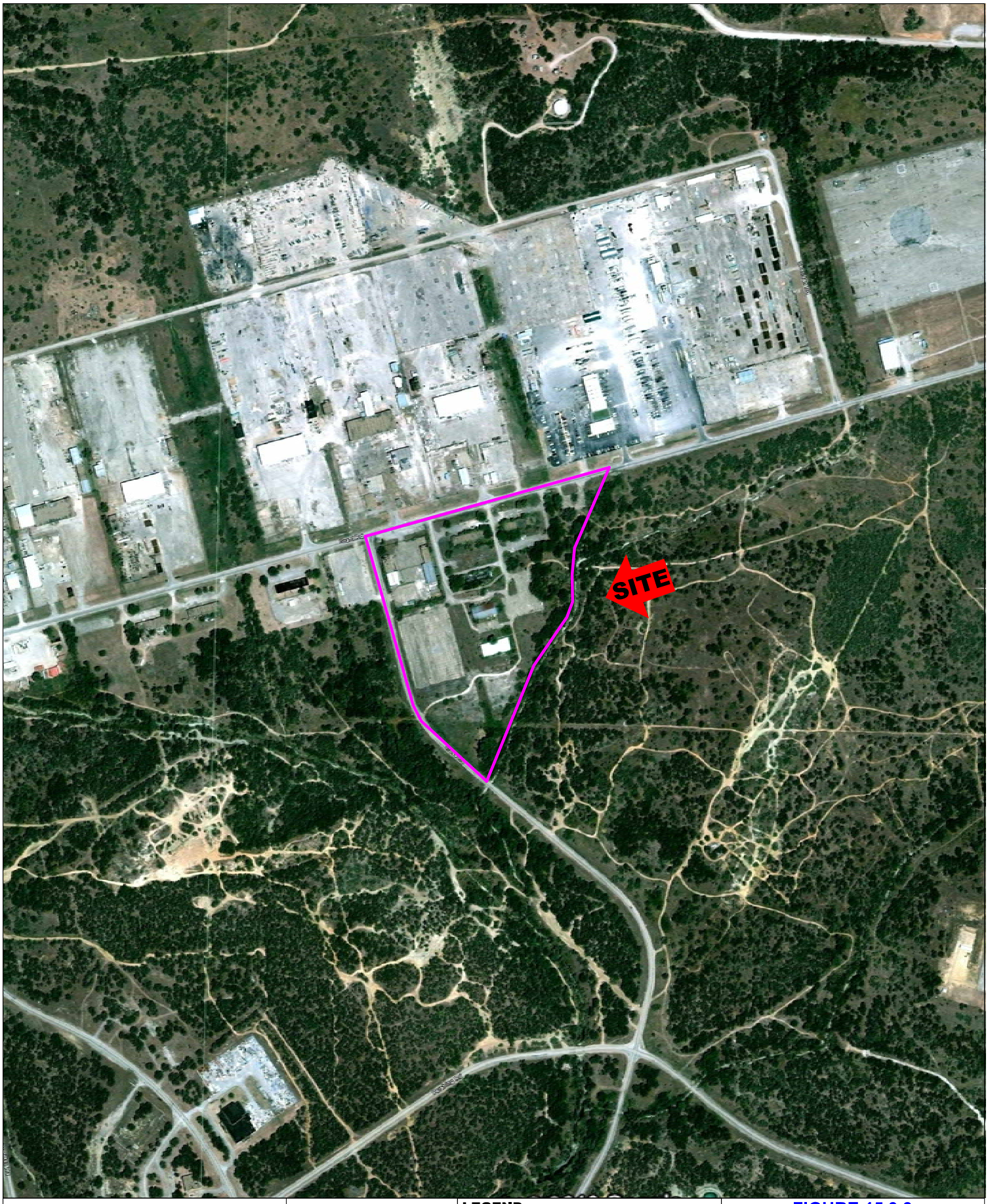
LEGEND

Subject Property Boundary

Aerial Source:
Google Earth Mapping Service
Aerial photograph date: 6/28/2005

FIGURE 15.3.7
2005 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.8	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=600'	CS	10/8/10	1037503

N

0' 600'

APPROXIMATE SCALE IN FEET

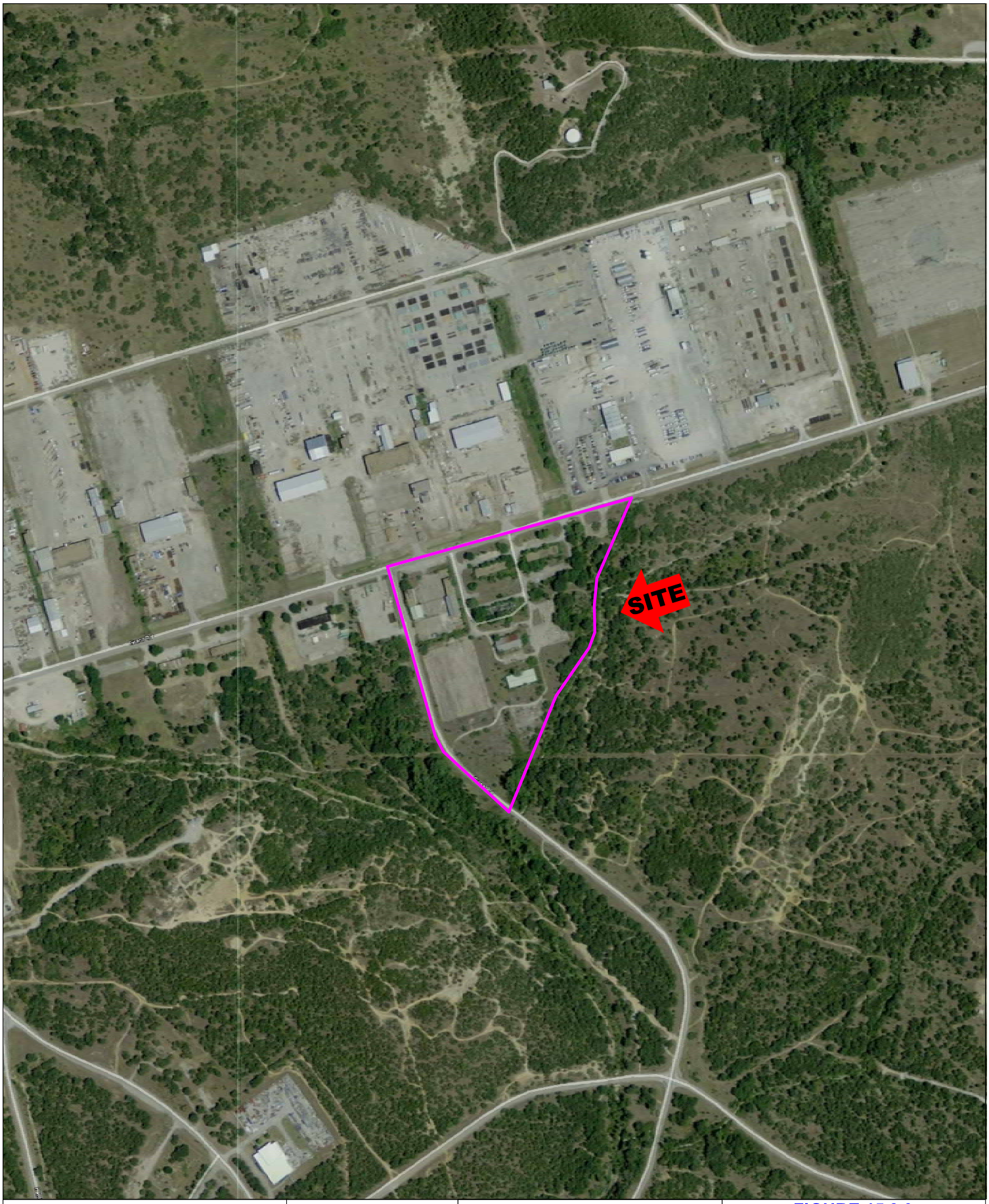
LEGEND

Subject Property Boundary

Aerial Source:
Google Earth Mapping Service
Aerial photograph date: 7/31/2006

FIGURE 15.3.8
2006 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg–15.3.9	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=600'	CS	10/8/10	1037503

N

0' 600'

APPROXIMATE SCALE IN FEET

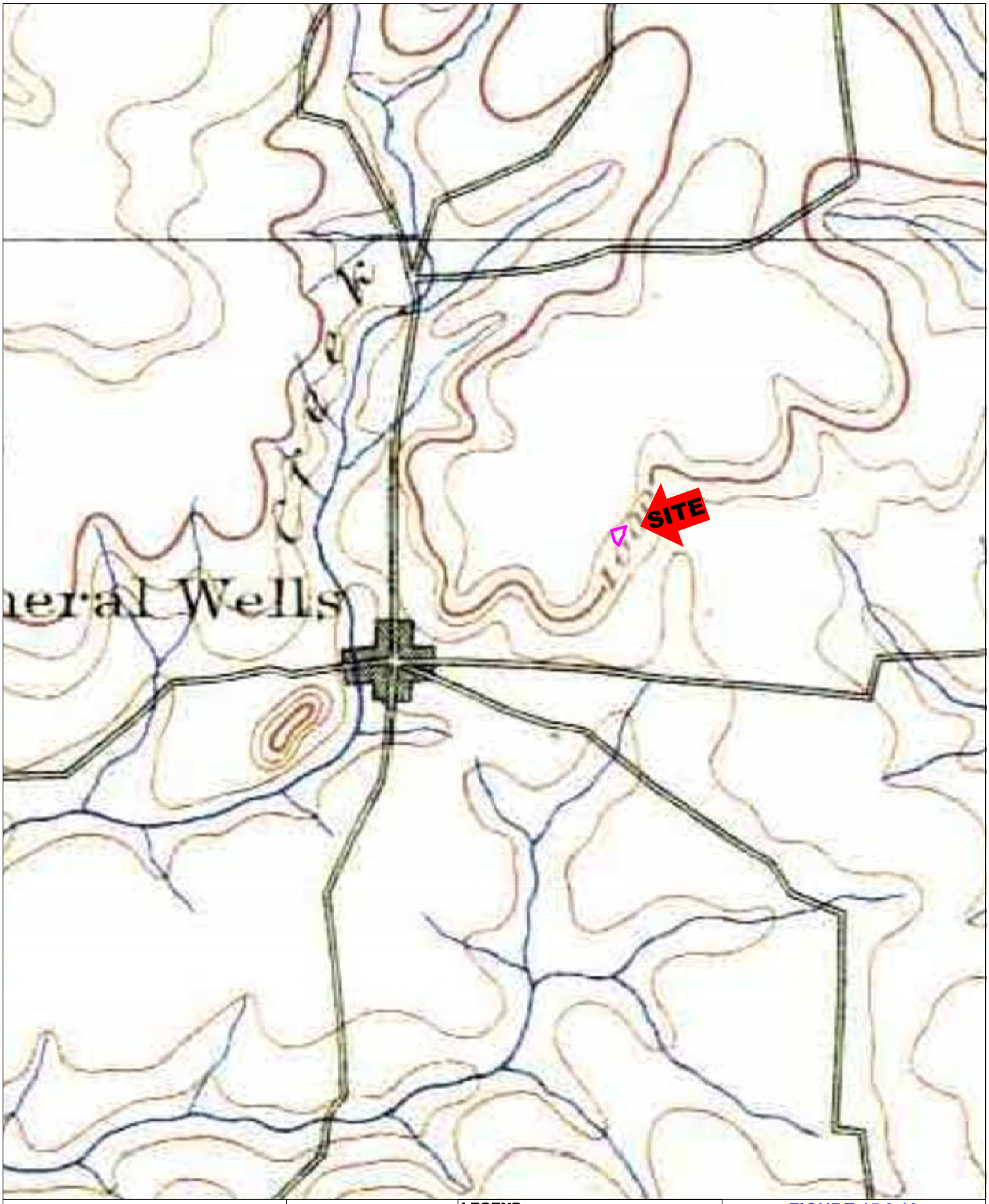
LEGEND

Subject Property Boundary

Aerial Source:
Google Earth Mapping Service
Aerial photograph date: 4/1/2008

FIGURE 15.3.9
2008 AERIAL PHOTOGRAPH

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.10	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=9000'	CS	10/8/10	1037503

N

0' 9000'

APPROXIMATE SCALE IN FEET

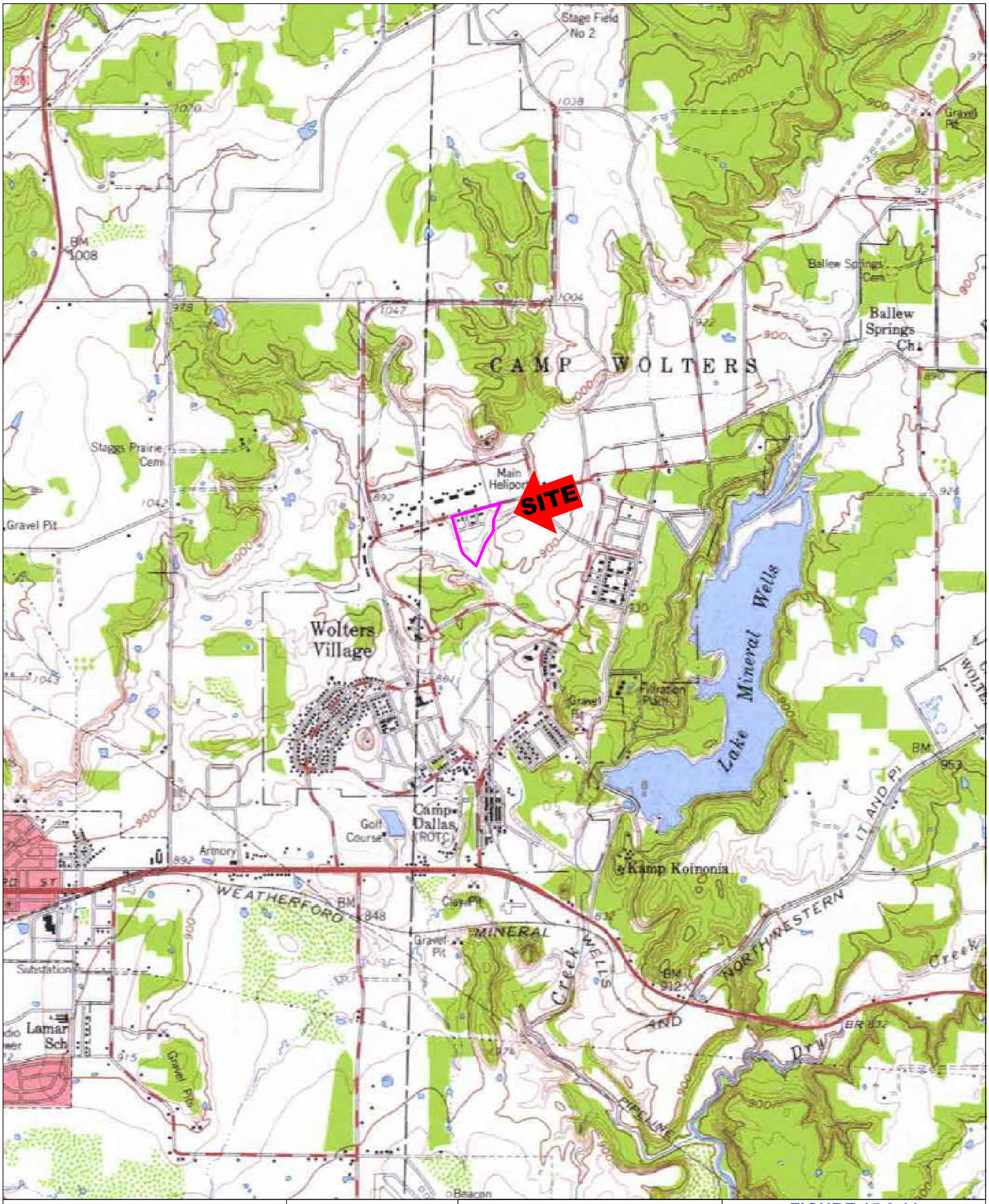
LEGEND

Subject Property Boundary

Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.4, Date: 10/4/2010
Palo Pinto Quadrangle (30 series)
Contour Interval: 25', Map Dated 1891

FIGURE 15.3.10
1891 TOPOGRAPHIC MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.11	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=3000'	CS	10/8/10	1037503

N

0' 3000'

APPROXIMATE SCALE IN FEET

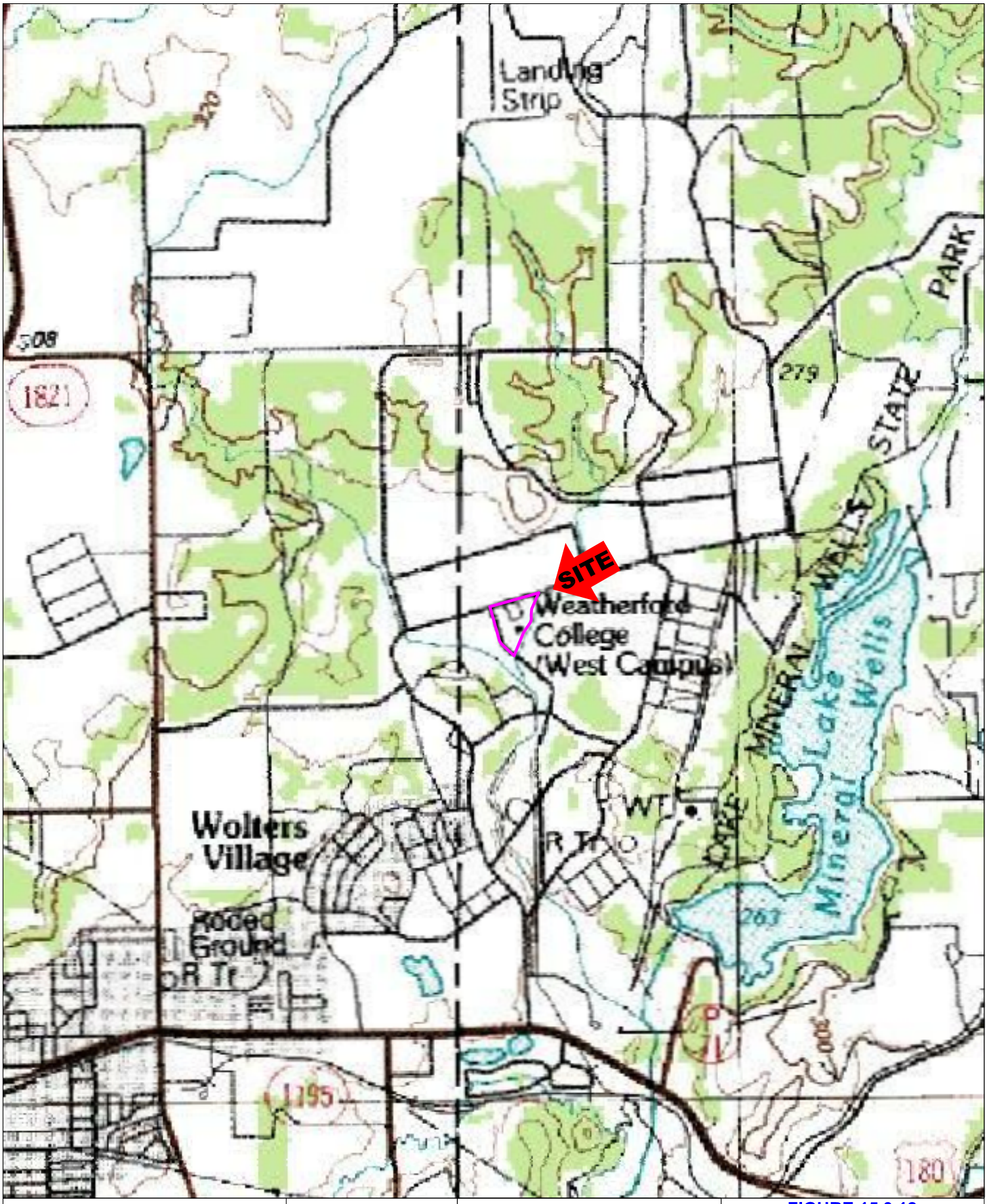
LEGEND

Subject Property Boundary

Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.4, Date: 10/4/2010
Mineral Wells Quadrangle (15 series)
Contour Interval: 20', Map Dated 1959

FIGURE 15.3.11
1959 TOPOGRAPHIC MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.12	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=3000'	CS	10/8/10	1037503

N

0' 3000'

APPROXIMATE SCALE IN FEET

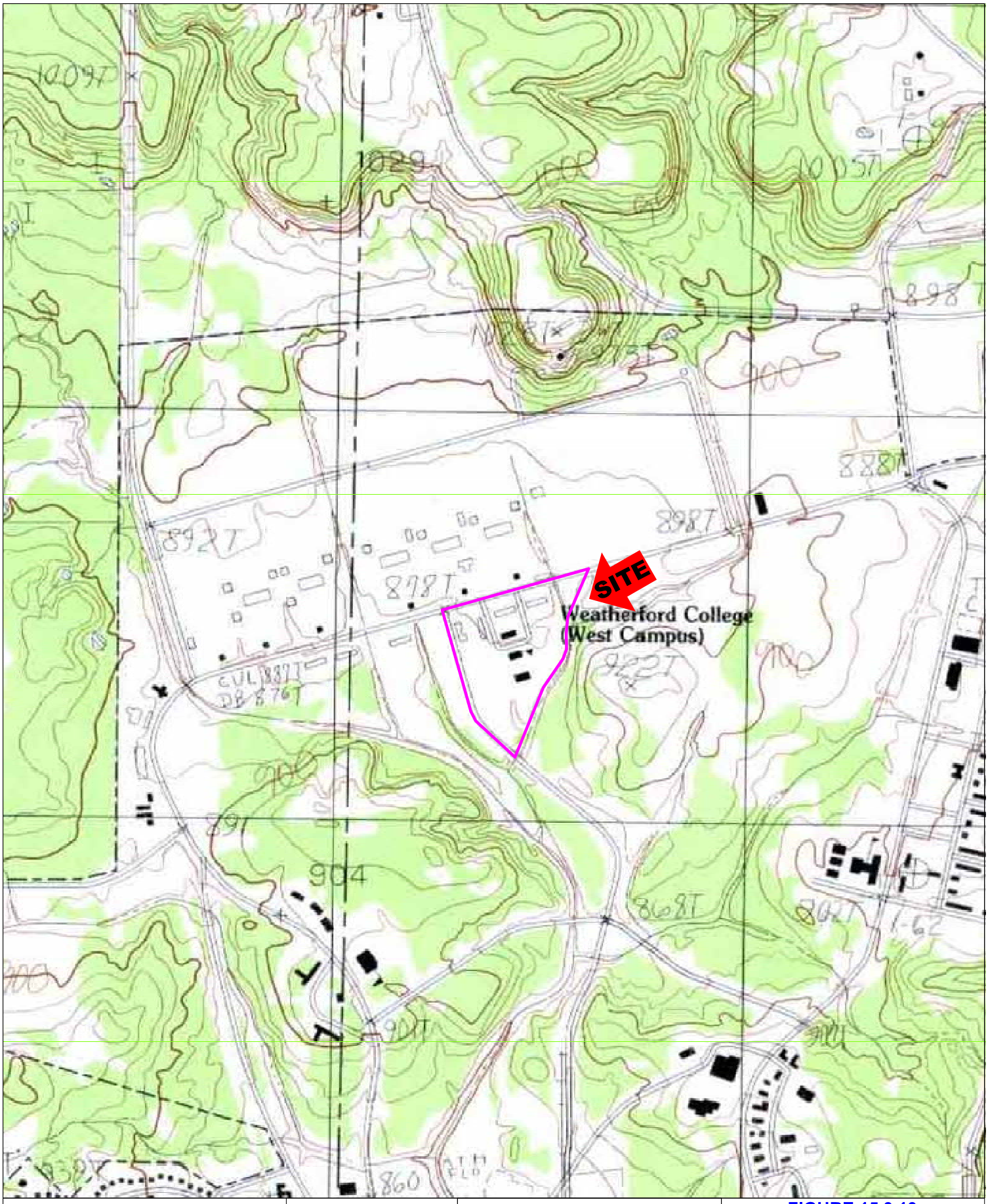
LEGEND

Subject Property Boundary

Source:
MSR Maps
www.msrmaps.com
Map date: 7/1/1983
Contour Interval: 5'

FIGURE 15.3.12
1983 TOPOGRAPHIC MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.13	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=1000'	CS	10/8/10	1037503

N

0' 1000'

APPROXIMATE SCALE IN FEET

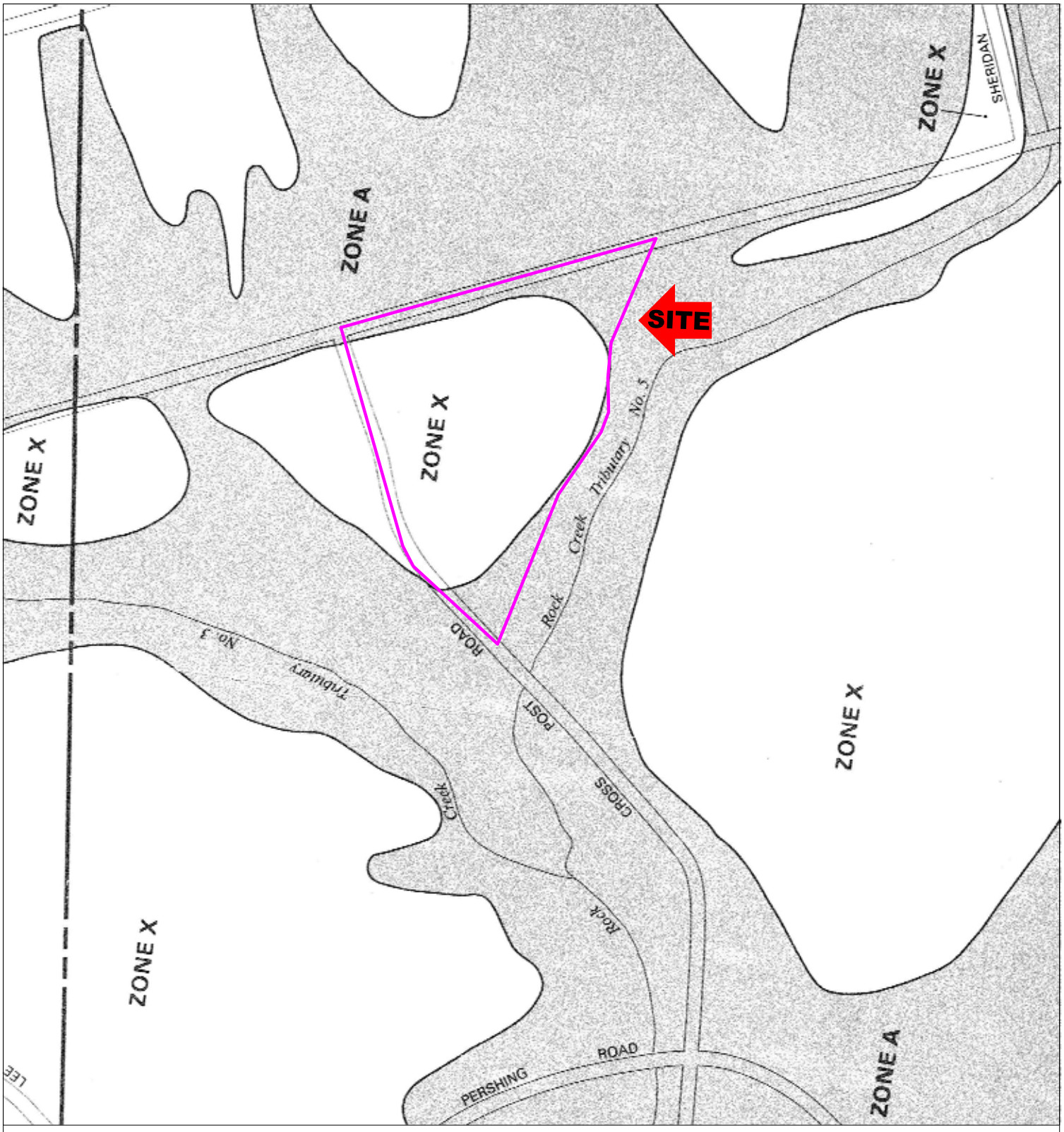
LEGEND

Subject Property Boundary

Source:
Environmental Data Resources, Inc. (EDR)
Inquiry #: 2861496.4, Date: 10/4/2010
Mineral Wells Quadrangle (7.5 series)
Contour Interval: 10', Map Dated 1984

FIGURE 15.3.13
1984 TOPOGRAPHIC MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



Zone X: Areas determined to be outside of the 500-year floodplain.

Zone A: No base flood elevations determined.

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.14	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=500'	CS	10/8/10	1037503

N

0' 500'

APPROXIMATE SCALE IN FEET

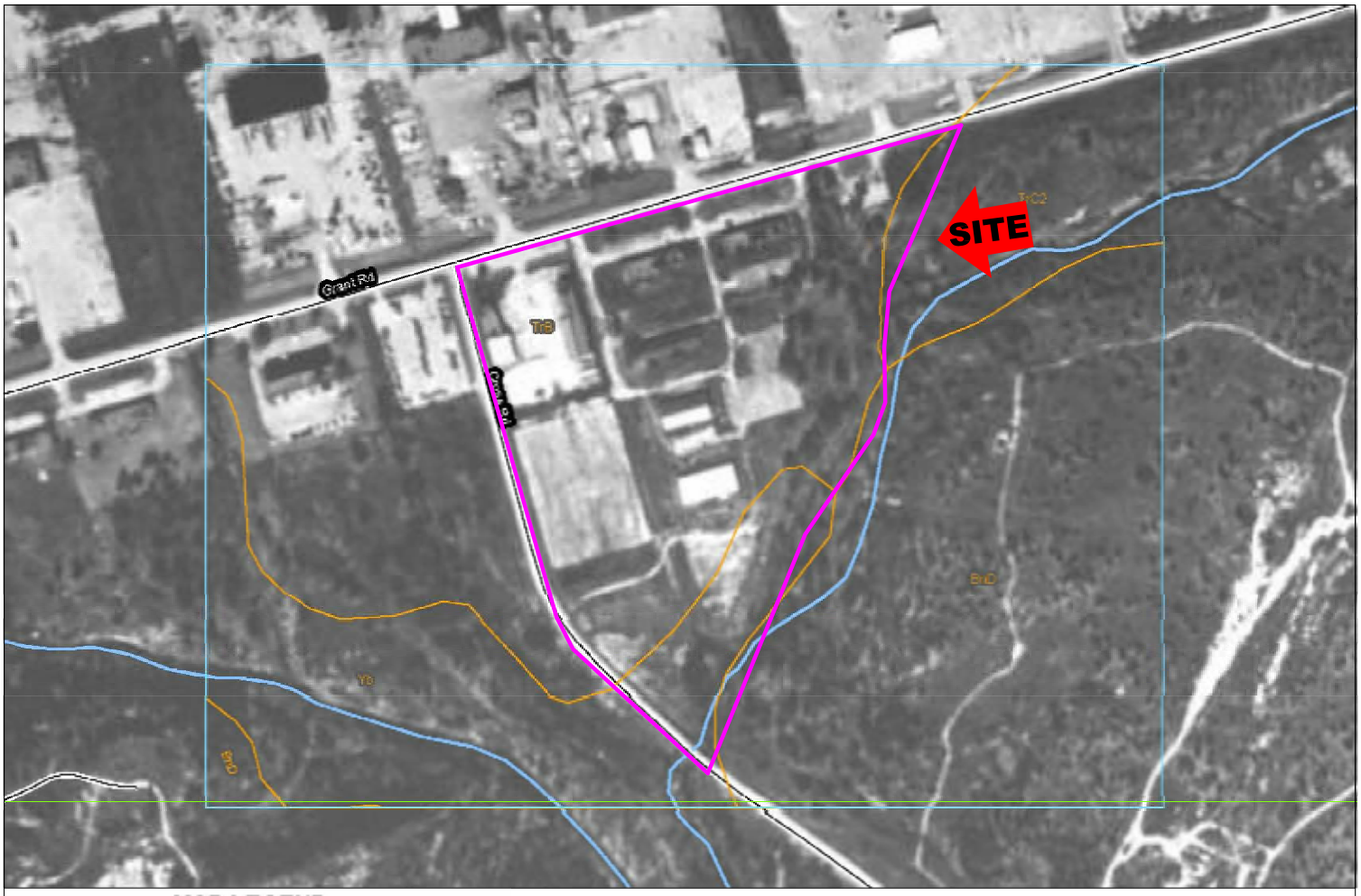
LEGEND

Subject Property Boundary

Source:
Federal Emergency Management Agency (FEMA)
Mineral Wells, TX, Palo Pinto and Parker Counties
4805170005C, Panel 5 of 8
Map revised: 5/17/1990

FIGURE 15.3.14
FEMA MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

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

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities

Water Features
- Oceans
- Streams and Canals

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

Bnd: Bonti and Truce soils: 1 to 8 percent slopes

TrB: Truce fine sandy loam, 1 to 3 percent slopes

TrC2: Truce fine sandy loam, 2 to 5 percent slopes, moderately eroded

Yb: Santo and Bunyan soils, 0 to 1 percent slopes, frequently flooded

MAP INFORMATION

Map Scale: 1:4,760 if printed on A size (8.5" × 11") sheet.

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 14N NAD83

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

Soil Survey Area: Parker County, Texas
Survey Area Data: Version 8, Oct 26, 2009

Date(s) aerial images were photographed: 1995

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

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.15	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=400'	CS	10/8/10	1037503

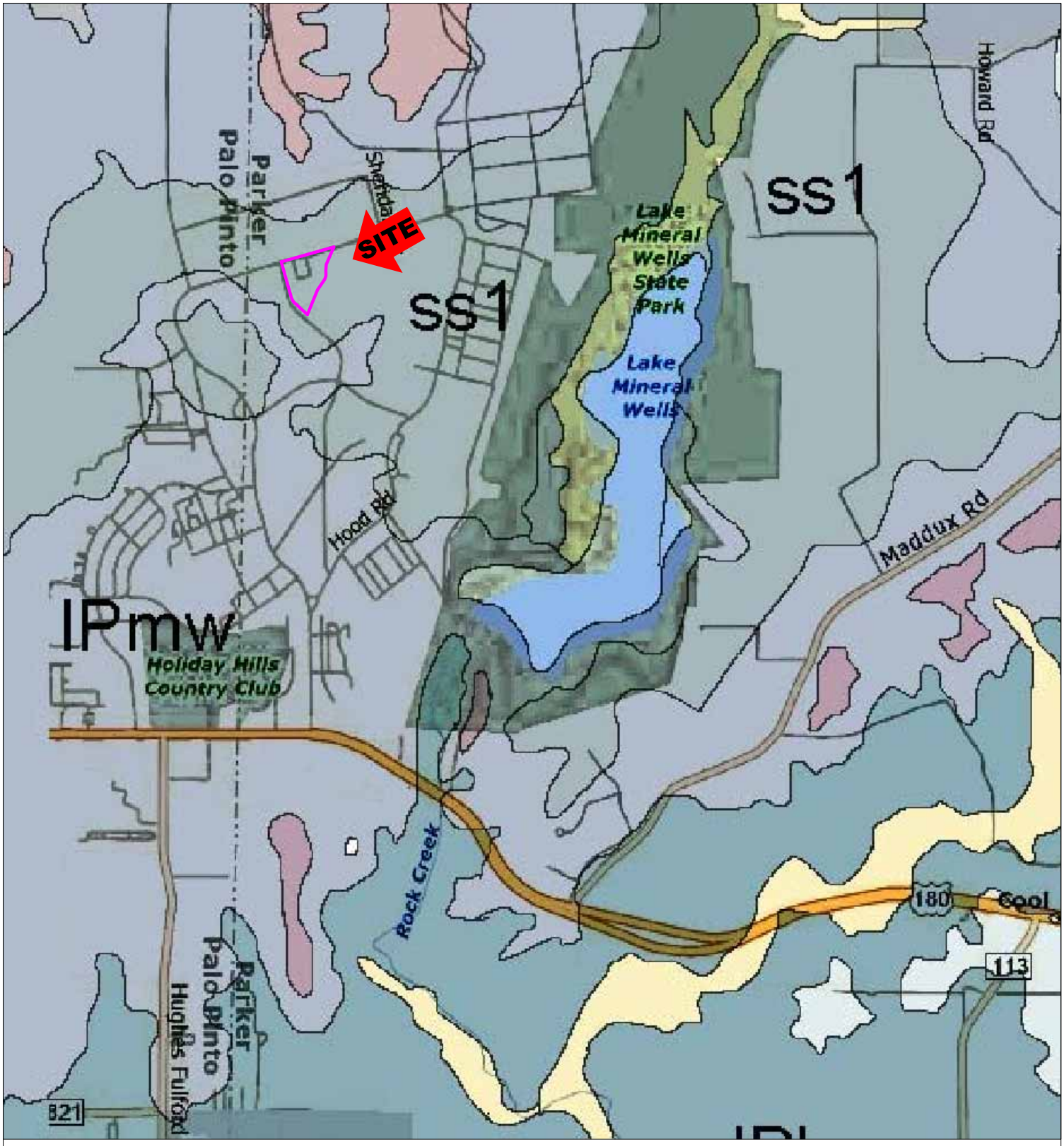
N

0' 400'

APPROXIMATE SCALE IN FEET

FIGURE 15.3.15
SOIL SURVEY MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



ss1: Sandstone

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.16	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=3000'	CS	10/8/10	1037503

N

0' 3000'

APPROXIMATE SCALE IN FEET

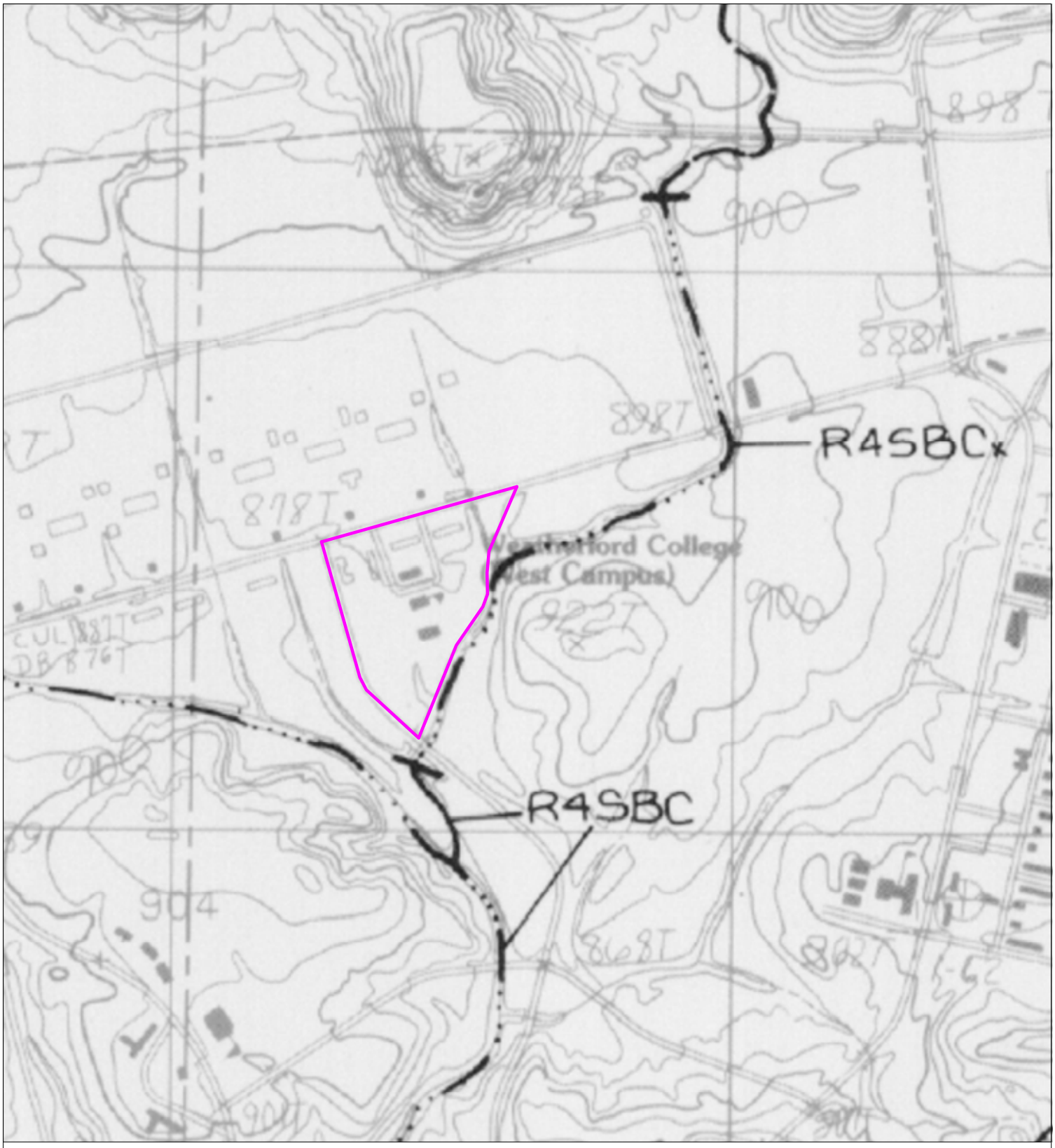
LEGEND

Subject Property Boundary

Source:
Geologic Atlas of Texas
Dallas Sheet
Parker County, Texas Geology
Map dated 1987

FIGURE 15.3.16
GEOLOGIC MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067



R4SBCx: Riverine Intermittent Streambed, Seasonally Flooded, Excavated

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MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.3.17	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=800'	CS	11/12/10	1037503

0' 800'
APPROXIMATE SCALE IN FEET

N

LEGEND

Subject Property Boundary

Source:
US Department of the Interior, Fish and Wildlife Service
National Wetlands Inventory Map
Mineral Wells East, Texas
Map date: 1992

FIGURE 15.3.17
WETLANDS MAP

Fort Wolters – TDCJ Property
Cross Post Road/Grant Road
Mineral Wells, TX 76067

15.4 Regulatory Records Documentation

15.4.1 – Environmental Database Report Search

Radius Map™ Report with GeoCheck, Inquiry Number 02885355.1r, dated October 4, 2010, prepared by EDR.

Fort Wolters
Cross Post Rd/ Grant Rd
Mineral Wells, TX 76067

Inquiry Number: 02885355.1r
October 04, 2010

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	15
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-29

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

CROSS POST RD/ GRANT RD
MINERAL WELLS, TX 76067

COORDINATES

Latitude (North):	32.837000 - 32˚ 50' 13.2''
Longitude (West):	98.055500 - 98˚ 3' 19.8''
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	588396.8
UTM Y (Meters):	3633421.5
Elevation:	879 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	32098-G1 MINERAL WELLS EAST, TX
Most Recent Revision:	1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2005, 2006, 2008
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS ..... State Superfund Registry

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Permitted Solid Waste Facilities
CLI ..... Closed Landfill Inventory
WasteMgt ..... Commercial Hazardous & Solid Waste Management Facilities

State and tribal leaking storage tank lists

LPST ..... Leaking Petroleum Storage Tank Listing
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ..... Petroleum Storage Tank Database

EXECUTIVE SUMMARY

AST ..... Petroleum Storage Tank Database
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL ..... Sites with Controls

State and tribal voluntary cleanup sites

VCP ..... Voluntary Cleanup Program Database
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Site Assessments

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
DEL SHWS ..... Deleted Superfund Registry Sites
PRIORITYCLEANERS ..... Dry Cleaner Remediation Program Prioritization List
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System
LIENS ..... Environmental Liens Listing
HIST LIENS ..... Environmental Liens Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Spills Database

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision

EXECUTIVE SUMMARY

UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
IOP	Innocent Owner/Operator Program
UIC	Underground Injection Wells Database Listing
DRYCLEANERS	Drycleaner Registration Database Listing
ENF	Notice of Violations Listing
Ind. Haz Waste	Industrial & Hazardous Waste Database
ED AQUIF	Edwards Aquifer Permits
AIRS	Current Emission Inventory Data
TIER 2	Tier 2 Chemical Inventory Reports
MSD	Municipal Settings Designations Database
RWS	Radioactive Waste Sites
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BJ SERVICES MINERAL WELLS	***555 GRANT RD***	***NE 1/8 - 1/4 (0.157 mi.)***	***3***	***10***

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MINERAL WELLS SHOP	***548 GRANT ROAD***	***NNE 0 - 1/8 (0.103 mi.)***	***1***	***7***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2008 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

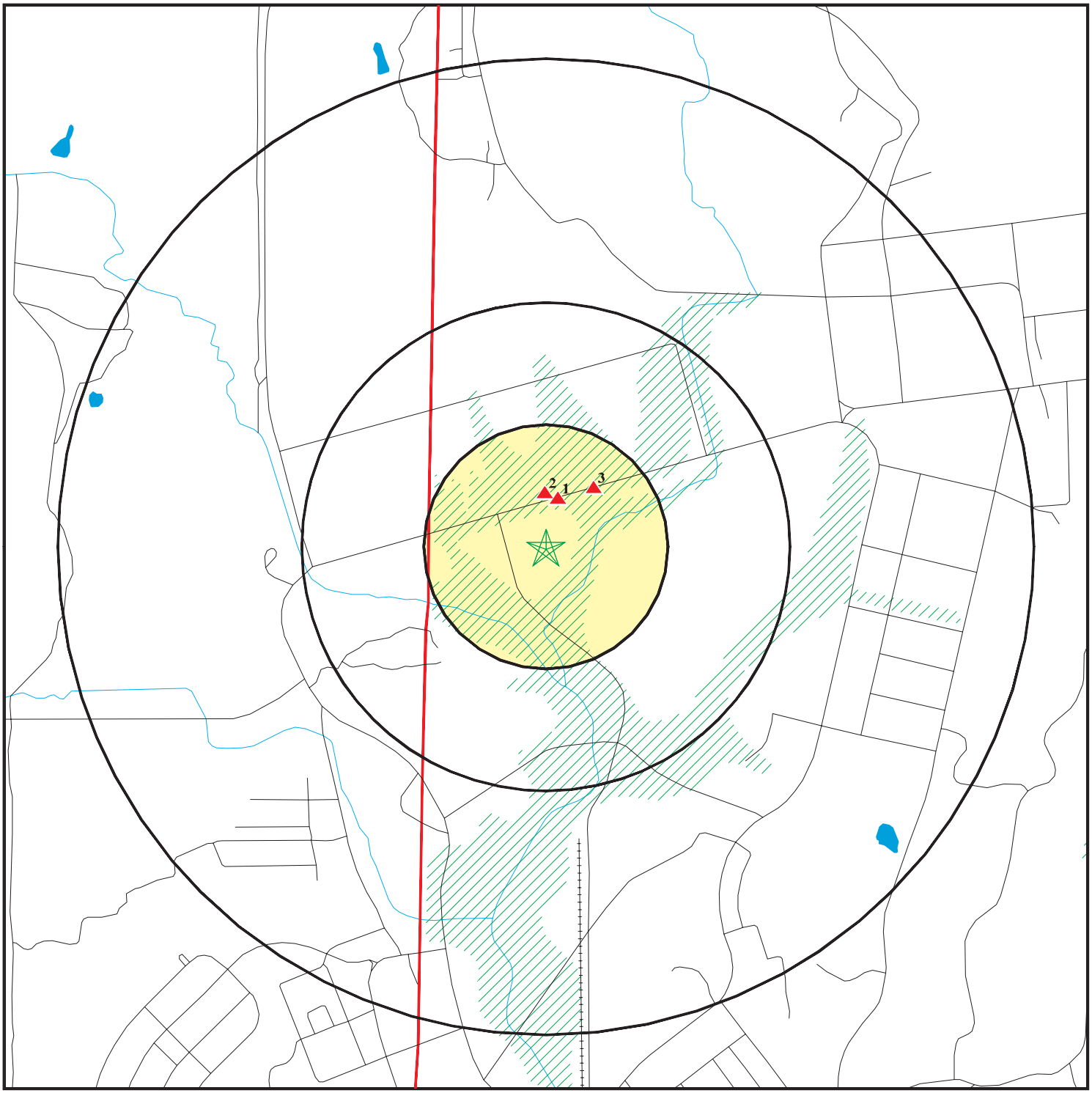
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMP WOLTERS		N 0 - 1/8 (0.112 mi.)	2	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
TXDOT FORT WORTH PALO PINTO REMOTE	TIER 2
TXDOT FORT WORTH PALO PINTO REMOTE	TIER 2
TXDOT FORT WORTH PALO PINTO REMOTE	TIER 2
CITY OF MINERAL WELLS LANDFILL	SWF/LF
CITY OF MINERAL WELLS LANDFILL	SWF/LF
PEADONVILLE STATION	LPST
ADJUTANT GENERALS FORT WOLTERS	LPST
GS GAS & GROCERY	LPST
MURPHY & MURPHY SAND & GRAVEL	LPST, UST
AWARD OIL	LPST
FORMER FORT WOLTERS	LPST
GARNER STORE	UST
AWARD COMPANY INC	AST
OSCAR RENDA	AST
POOL CO TX MINERAL WELLS	AST
7510 HWY 180 E	RCRA-NonGen, TRIS
U.S. ARMY FT WOLTERS RANGES	FINDS
BJ SERVICES FORT WOLTERS	FINDS
U.S. ARMY FT WOLTERS RANGES	TRIS
FACILITY AT 553 FORT WOLTERS, MINE	SPILLS
NATIONAL HOMES OF FORT WORTH LP WI	ENF
FORT WOLTERS	Ind. Haz Waste
FORT WORTH CRUSHED STONE, INC.	MINES

OVERVIEW MAP - 02885355.1r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

0 1/4 1/2 1 Miles

N

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

SITE NAME: Fort Wolters ADDRESS: Cross Post Rd/ Grant Rd Mineral Wells TX 76067 LAT/LONG: 32.8370 / 98.0555	CLIENT: Dougherty, Sprague Environmental, Inc. CONTACT: Sherri Godsey INQUIRY #: 02885355.1r DATE: October 04, 2010 2:01 pm

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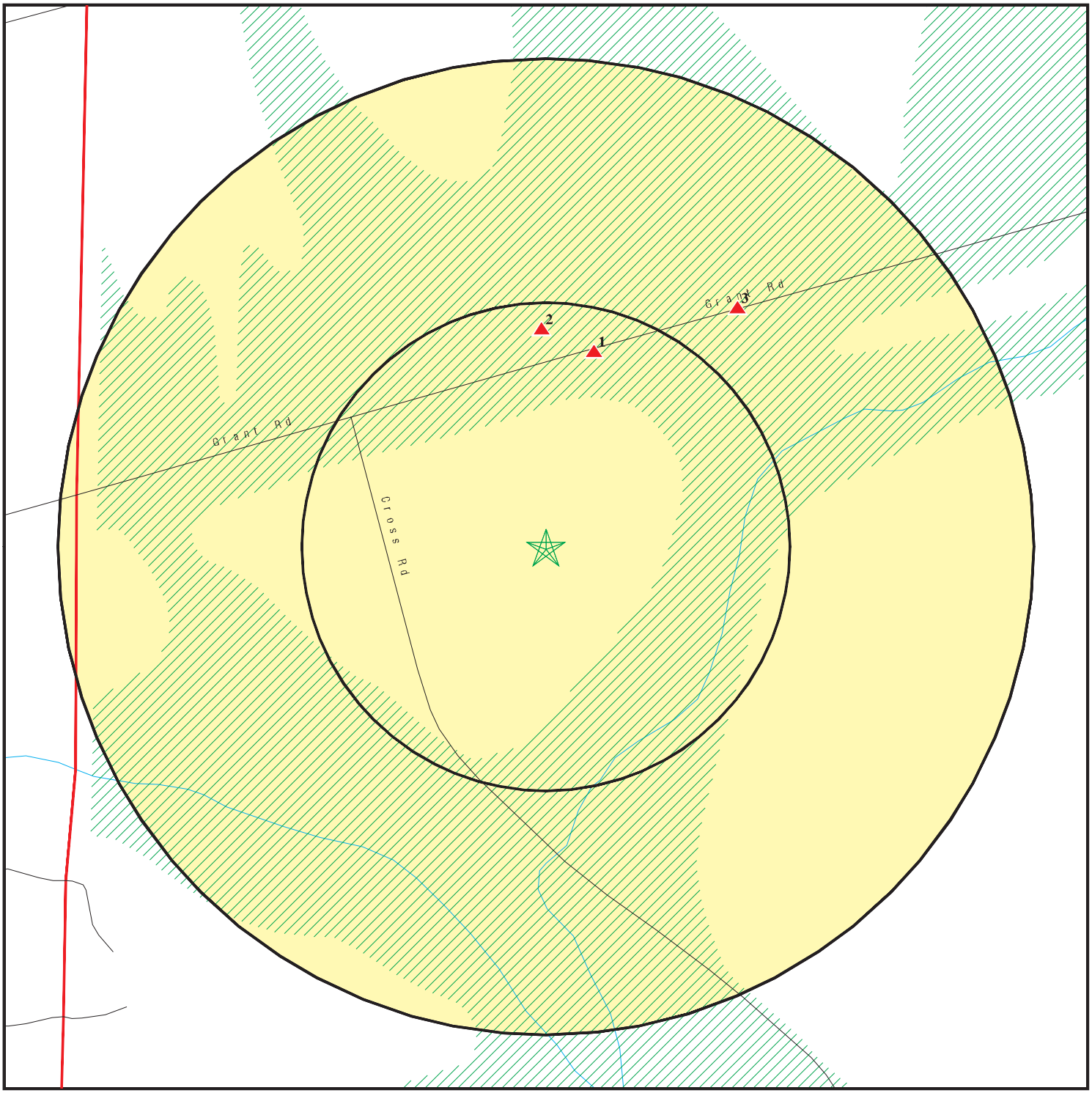
DETAIL MAP - 02885355.1r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

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

SITE NAME: Fort Wolters	CLIENT: Dougherty, Sprague Environmental, Inc.
ADDRESS: Cross Post Rd/ Grant Rd Mineral Wells TX 76067	CONTACT: Sherri Godsey INQUIRY #: 02885355.1r
LAT/LONG: 32.8370 / 98.0555	DATE: October 04, 2010 2:02 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	1	NR	NR	NR	1
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
SHWS		1.000	0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
CLI		0.500	0	0	0	NR	NR	0
WasteMgt		TP	NR	NR	NR	NR	NR	0
State and tribal leaking storage tank lists								
LPST		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
PRIORITYCLEANERS		0.500	0	0	0	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
HIST LIENS		TP	NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	1	0	NR	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	1	0	0	0	NR	1
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
IOP		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
ENF		TP	NR	NR	NR	NR	NR	0
Ind. Haz Waste		TP	NR	NR	NR	NR	NR	0
ED AQUIF		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TIER 2		TP	NR	NR	NR	NR	NR	0
MSD		0.500	0	0	0	NR	NR	0
RWS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 NNE < 1/8 0.103 mi. 546 ft. | **MINERAL WELLS SHOP**
548 GRANT ROAD
MINERAL WELLS, TX 76067 | **RCRA-NonGen FINDS** | **1000284321 TXD148702533**

Relative: Higher

Actual: 882 ft.

RCRA-NonGen:

Date form received by agency:	05/27/2009
Facility name:	EXTERRAN ENERGY SOLUTIONS LP
Facility address:	548 GRANT ROAD MINERAL WELLS, TX 76067
EPA ID:	TXD148702533
Mailing address:	BRITTMOORE RD HOUSTON, TX 77041
Contact:	KEVIN D ROMINE
Contact address:	BRITTMOORE RD HOUSTON, TX 77041
Contact country:	US
Contact telephone:	713-335-7000 EX
Contact email:	Not reported
EPA Region:	06
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	EXTERRAN ENERGY SOLUTIONS LP
Owner/operator address:	BRITTMOORE RD HOUSTON, TX 77041
Owner/operator country:	US
Owner/operator telephone:	713-335-7000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/27/2009
Owner/Op end date:	Not reported

Owner/operator name:	EXTERRAN ENERGY SOLUTIONS LP
Owner/operator address:	BRITTMOORE RD HOUSTON, TX 77041
Owner/operator country:	US
Owner/operator telephone:	713-335-7000
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/27/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

MINERAL WELLS SHOP (Continued) **1000284321**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 11/13/2008
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Classification: Not a generator, verified

Date form received by agency: 11/19/2007
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Classification: Small Quantity Generator

Date form received by agency: 10/31/2007
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Classification: Small Quantity Generator

Date form received by agency: 11/29/2005
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Site name: UNIVERSAL COMPRESSION INC
Classification: Small Quantity Generator

Date form received by agency: 03/13/2002
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Site name: UNIVERSAL COMPRESSION INC
Classification: Small Quantity Generator

Date form received by agency: 01/25/2000
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Site name: UNIVERSAL COMPRESSION, INC
Classification: Large Quantity Generator

Date form received by agency: 06/22/1989
Facility name: EXTERRAN ENERGY SOLUTIONS LP
Site name: HALLIBURTON RESOURCE MGMT
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Violation Status: No violations found

FINDS:

Registry ID: 110008151285

MINERAL WELLS SHOP (Continued) **1000284321**

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

2
North
< 1/8
0.112 mi.
591 ft.

Relative:
Higher

Actual:
882 ft.

CAMP WOLTERS **FUDS** **1007212403**
N/A

MINERAL WELLS, TX

FUDS:

Federal Facility ID:	TX9799F6464
FUDS #:	K06TX0034
INST ID:	57015
Facility Name:	CAMP WOLTERS
City:	MINERAL WELLS
State:	TX
EPA Region:	6
County:	PALO PINTO
Congressional District:	12
US Army District:	Fort Worth District (SWF)
Fiscal Year:	2008
Telephone:	817-886-1517
NPL Status:	Not Listed
RAB:	Not reported
CTC:	22100.1629
Current Owner:	CITY; PRIVATE; STATE

FUDS Description Details:

Fort Wolters consisted of 7,960.31 acres and traces its history to World War II Camp Wolters. It is located between Weatherford and Mineral Wells along Texas Highway 180. Improvements included an airfield, hangars, barracks, a hospital, roads, ranges s, and other support facilities. Current use is primarily industrial with a mix of residential, recreational, and wildlife refuge. Projects include containerized hazardous, toxic, and radioactive waste, hazardous, toxic, and radioactive waste, and po otential unexploded ordnance contamination.

FUDS History Details:

The site was used from 1942 to 1963 for infantry soldier training and from 1963 to 1978 for Army helicopter pilot training. Hazardous wastes generated include petroleum products and possible soil contamination. Lands have been returned to private and d commercial use and also to the Texas Army National Guard. Past land

CAMP WOLTERS (Continued) **1007212403**

use was ranching and farming. This property is known or suspected to contain military munitions and explosives of concern (e.g., unexploded ordnance) and therefore may present an e
explosive hazard

FUDS Current Program Details:
PDT continued work to address regulatory issues. Regulatory issues affect numerous projects in SWF and SWT Districts, and cause schedule delays. Contract awarded to complete SI phase.

FUDS Future Program Details:
Complete SI phase.

---

3 NE 1/8-1/4 0.157 mi. 829 ft. | **BJ SERVICES MINERAL WELLS**
555 GRANT RD
MINERAL WELLS, TX 76067 | **RCRA-SQG FINDS** | **1000402702 TXD000751248**

Relative: Higher

Actual: 882 ft.

RCRA-SQG:

Date form received by agency:	10/07/2008
Facility name:	BJ SERVICES COMPANY USA LP
Facility address:	555 GRANT RD MINERAL WELLS, TX 76068
EPA ID:	TXD000751248
Mailing address:	FM 2920 TOMBALL, TX 77375
Contact:	JOANN COBB
Contact address:	FM 2920 TOMBALL, TX 77375
Contact country:	US
Contact telephone:	713-629-2861
Contact email:	Not reported
EPA Region:	06
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	BJ SERVICES COMPANY USA LP
Owner/operator address:	FM 2920 TOMBALL, TX 77375
Owner/operator country:	US
Owner/operator telephone:	713-629-2861
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/07/2008
Owner/Op end date:	Not reported

Owner/operator name:	BJ SERVICES COMPANY USA LP
Owner/operator address:	FM 2920 TOMBALL, TX 77375

BJ SERVICES MINERAL WELLS (Continued) **1000402702**

Owner/operator country: US
Owner/operator telephone: 713-629-2861
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/07/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 07/29/2008
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 07/12/2006
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 03/01/2006
Facility name: BJ SERVICES COMPANY USA LP
Classification: Large Quantity Generator

Date form received by agency: 12/14/2005
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 12/14/2005
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 11/29/2005
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 09/14/2004
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 09/14/2004
Facility name: BJ SERVICES COMPANY USA LP

BJ SERVICES MINERAL WELLS (Continued) **1000402702**

Classification: Small Quantity Generator

Date form received by agency: 03/25/2002
Facility name: BJ SERVICES COMPANY USA LP
Classification: Small Quantity Generator

Date form received by agency: 04/10/1996
Facility name: BJ SERVICES COMPANY USA LP
Site name: BJ SERVICES CO USA
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U154
Waste name: METHANOL (I)

Waste code: U239
Waste name: BENZENE, DIMETHYL- (I,T)

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: State Statute or Regulation

BJ SERVICES MINERAL WELLS (Continued) **1000402702**

Date violation determined: 10/02/1986
Date achieved compliance: 12/20/1994
Violation lead agency: State
Enforcement action: VERBAL INFORMAL
Enforcement action date: 10/02/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/30/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/12/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/20/1994
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/1988
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/02/1986
Evaluation: CASE DEVELOPMENT INSPECTION
Area of violation: State Statute or Regulation
Date achieved compliance: 12/20/1994
Evaluation lead agency: State

Evaluation date: 05/22/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/22/1984
Evaluation: FINANCIAL RECORD REVIEW

BJ SERVICES MINERAL WELLS (Continued) **1000402702**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110008139530

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MINERAL WELLS	U001242734	GARNER STORE	HWY 113		UST
MINERAL WELLS	1007447299		7510 HWY 180 E	76067	RCRA-NonGen, TRIS
MINERAL WELLS	S105121638	PEADONVILLE STATION	HWY 281	76067	LPST
MINERAL WELLS	A100268101	AWARD COMPANY INC	3655 HWY 281 N	76067	AST
MINERAL WELLS	A100225373	OSCAR RENDA	HWY 281 S	76067	AST
MINERAL WELLS	A100118426	POOL CO TX MINERAL WELLS	HWY 287 N		AST
MINERAL WELLS	1012208546	U.S. ARMY FT WOLTERS RANGES	RT 4 BLDG 620	76067	TRIS
MINERAL WELLS	1012170327	U.S. ARMY FT WOLTERS RANGES	RT 4	76067	FINDS
MINERAL WELLS	S110414088	TXDOT FORT WORTH PALO PINTO REMOTE	FM 919 & FM 193	76067	TIER 2
MINERAL WELLS	1010718799	BJ SERVICES FORT WOLTERS	BLDG FORT WOLTERS	76067	FINDS
MINERAL WELLS	S104957657	ADJUTANT GENERALS FORT WOLTERS	BLDG	76067	LPST
MINERAL WELLS	S104272927	FORT WOLTERS	BUILDING FORT WOLTERS	76067	Ind. Haz Waste
MINERAL WELLS	S110414097	TXDOT FORT WORTH PALO PINTO REMOTE	NE CORNER PANAMA RD & IH 20	76067	TIER 2
MINERAL WELLS	S106992276	FACILITY AT 553 FORT WOLTERS, MINE	FACILITY MINERAL WELLS	76067	SPILLS
MINERAL WELLS	S108652551	GS GAS & GROCERY	8161 N HWY 281	76067	LPST
MINERAL WELLS	U001267684	MURPHY & MURPHY SAND & GRAVEL	W HWY 180	76067	LPST, UST
MINERAL WELLS	S110376985	AWARD OIL	3655 N HWY 281	76067	LPST
MINERAL WELLS	S109515130	CITY OF MINERAL WELLS LANDFILL	25 MILE S OF MINERAL WLS		SWF/LF
MINERAL WELLS	S108425051	CITY OF MINERAL WELLS LANDFILL	4TH MILES W & 2ND MILES N OF M		SWF/LF
MINERAL WELLS	S110414038	TXDOT FORT WORTH PALO PINTO REMOTE	S ON	76067	TIER 2
MINERAL WELLS	S106620363	FORMER FORT WOLTERS	SITE 133	76067	LPST
PARKER COUNTY	S108705595	NATIONAL HOMES OF FORT WORTH LP WI	ON OLD BANKHEAD HWY, 1/2 MILE		ENF
PARKER COUNTY	M300001566	FORT WORTH CRUSHED STONE, INC.	WEATHERFORD PIT		MINES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82

Source: EPA
Telephone: N/A
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82

Source: EPA
Telephone: N/A
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/16/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/02/2010	Source: EPA
Date Data Arrived at EDR: 07/14/2010	Telephone: N/A
Date Made Active in Reports: 10/04/2010	Last EDR Contact: 07/14/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010	Source: EPA
Date Data Arrived at EDR: 02/09/2010	Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 10/01/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/10/2011
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 07/21/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/25/2010
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/01/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 12/13/2010
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/16/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 08/19/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 08/19/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 08/19/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 08/19/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/13/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/13/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 07/09/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 39

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

State- and tribal - equivalent NPL

SHWS: State Superfund Registry

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/01/2010
Date Data Arrived at EDR: 03/31/2010
Date Made Active in Reports: 04/07/2010
Number of Days to Update: 7

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5680
Last EDR Contact: 09/20/2010
Next Scheduled EDR Contact: 01/03/2011
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/07/2010
Date Data Arrived at EDR: 05/14/2010
Date Made Active in Reports: 06/10/2010
Number of Days to Update: 27

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6706
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

CLI: Closed Landfill Inventory
Closed and abandoned landfills (permitted as well as unauthorized) across the state of Texas.

Date of Government Version: 08/30/1999
Date Data Arrived at EDR: 09/28/2000
Date Made Active in Reports: 10/30/2000
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6016
Last EDR Contact: 07/12/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

WASTEMGT: Commercial Hazardous & Solid Waste Management Facilities
This list contains commercial recycling facilities and facilities permitted or authorized (interim status) by the Texas Natural Resource Conservation Commission.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 02/16/2007
Date Made Active in Reports: 03/29/2007
Number of Days to Update: 41

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2920
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LPST: Leaking Petroleum Storage Tank Database
An inventory of reported leaking petroleum storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/07/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 39

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2200
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 08/30/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/07/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/23/2010
Number of Days to Update: 45

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

AST: Petroleum Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 07/07/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/23/2010
Number of Days to Update: 45

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/30/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/03/2010
Date Data Arrived at EDR: 08/04/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 61

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/19/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 06/04/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5891
Last EDR Contact: 07/12/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP TCEQ: Voluntary Cleanup Program Database

The Texas Voluntary Cleanup Program was established to provide administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas.

Date of Government Version: 06/04/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5891
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

VCP RRC: Voluntary Cleanup Program Sites

The 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.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: Railroad Commission of Texas
Telephone: 512-463-6969
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/04/2010
Next Scheduled EDR Contact: 01/17/2011
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Assessments
Brownfield site assessments that are being cleaned under EPA grant monies.

Date of Government Version: 06/04/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: TCEQ
Telephone: 512-239-5872
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/24/2010
Date Data Arrived at EDR: 06/25/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/29/2010
Next Scheduled EDR Contact: 01/10/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 09/27/2010
Next Scheduled EDR Contact: 01/10/2011
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 09/07/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 05/07/2010
Date Data Arrived at EDR: 06/18/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/17/2010
Next Scheduled EDR Contact: 12/20/2010
Data Release Frequency: Quarterly

DEL SHWS: Deleted Superfund Registry Sites
Sites have been deleted from the state Superfund registry in accordance with the Act, ?361.189

Date of Government Version: 03/01/2010
Date Data Arrived at EDR: 03/31/2010
Date Made Active in Reports: 04/07/2010
Number of Days to Update: 7

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0666
Last EDR Contact: 09/20/2010
Next Scheduled EDR Contact: 01/03/2011
Data Release Frequency: Quarterly

PRIORITY CLEANERS: Dry Cleaner Remediation Program Prioritization List
A listing of dry cleaner related contaminated sites.

Date of Government Version: 03/01/2010
Date Data Arrived at EDR: 03/17/2010
Date Made Active in Reports: 04/07/2010
Number of Days to Update: 21

Source: Texas Commisision on Environmenatl Quality
Telephone: 512-239-5658
Last EDR Contact: 09/16/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA 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.

Date of Government Version: 05/06/2010
Date Data Arrived at EDR: 05/11/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 09/08/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

The listing covers TCEQ liens placed against either State Superfund sites or Federal Superfund sites to recover cost incurred by TCEQ.

Date of Government Version: 06/15/2010
Date Data Arrived at EDR: 06/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 62

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2209
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Varies

HIST LIENS: Environmental Liens Listing

This listing contains information fields that are no longer tracked in the LIENS database.

Date of Government Version: 03/23/2007
Date Data Arrived at EDR: 03/23/2007
Date Made Active in Reports: 05/02/2007
Number of Days to Update: 40

Source: Texas Commission on Environmental Qualilty
Telephone: 512-239-2209
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/06/2010
Date Data Arrived at EDR: 04/07/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 50

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

SPILLS: Spills Database
Spills reported to the Emergency Response Division.

Date of Government Version: 06/04/2010
Date Data Arrived at EDR: 06/04/2010
Date Made Active in Reports: 06/10/2010
Number of Days to Update: 6

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0983
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 08/19/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/14/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/11/2010
Date Data Arrived at EDR: 04/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 28

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/04/2010
Next Scheduled EDR Contact: 01/17/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/01/2010
Date Data Arrived at EDR: 06/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 62

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/15/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/14/2009
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 5

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/01/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/07/2010
Date Data Arrived at EDR: 06/09/2010
Date Made Active in Reports: 08/30/2010
Number of Days to Update: 82

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/09/2010
Next Scheduled EDR Contact: 12/20/2010
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/01/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 10/01/2010
Next Scheduled EDR Contact: 01/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 08/16/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2010
Date Data Arrived at EDR: 04/29/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 09/27/2010
Next Scheduled EDR Contact: 01/10/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 02/01/2010
Date Data Arrived at EDR: 04/22/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 109

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/30/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/13/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/13/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/14/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (214) 665-2200
Last EDR Contact: 09/15/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Biennially

IOP: Innocent Owner/Operator Program
Contains information on all sites that are in the IOP. An IOP is an innocent owner or operator whose 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.

Date of Government Version: 06/04/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-5894
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Database Listing
Class V injection wells regulated by the TCEQ. Class V wells are used to inject non-hazardous fluids underground. Most Class V wells are used to dispose of wastes into or above underground sources of drinking water and can pose a threat to ground water quality, if not managed properly.

Date of Government Version: 04/26/2010
Date Data Arrived at EDR: 04/26/2010
Date Made Active in Reports: 05/28/2010
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6627
Last EDR Contact: 07/26/2010
Next Scheduled EDR Contact: 11/08/2010
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Registration Database Listing
A listing of drycleaning facilities.

Date of Government Version: 04/09/2010
Date Data Arrived at EDR: 06/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 62

Source: Texas Commission on Environmental Quality
Telephone: 512-239-2160
Last EDR Contact: 09/15/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

ENFORCEMENT: Notice of Violations Listing
A listing of permit violations.

Date of Government Version: 05/20/2010
Date Data Arrived at EDR: 05/26/2010
Date Made Active in Reports: 06/10/2010
Number of Days to Update: 15

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6012
Last EDR Contact: 08/16/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Semi-Annually

Ind. Haz Waste: Industrial & Hazardous Waste Database
Summary reports reported by waste handlers, generators and shippers in Texas.

Date of Government Version: 06/30/2010
Date Data Arrived at EDR: 07/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 32

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0985
Last EDR Contact: 07/16/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Annually

ED AQUIF: Edwards Aquifer Permits
A listing of permits in the Edwards Aquifer Protection Program database. The information provided is for the counties located in the Austin Region (Hays, Travis, and Williamson counties).

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 08/04/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 13

Source: Texas Commission on Environmental Quality, Austin Region
Telephone: 512-339-2929
Last EDR Contact: 07/23/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

AIRS: Current Emission Inventory Data

The database lists by company, along with their actual emissions, the TNRCC air accounts that emit EPA criteria pollutants.

Date of Government Version: 08/12/2009
Date Data Arrived at EDR: 06/24/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 54

Source: Texas Commission on Environmental Quality
Telephone: N/A
Last EDR Contact: 09/21/2010
Next Scheduled EDR Contact: 01/03/2011
Data Release Frequency: Semi-Annually

MSD: Municipal Settings Designations Database

An MSD is an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not use as potable water, and is prohibited from future use as potatable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level.

Date of Government Version: 07/20/2010
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 27

Source: Texas Commission on Environmental Quality
Telephone: 512-239-4982
Last EDR Contact: 09/27/2010
Next Scheduled EDR Contact: 01/10/2011
Data Release Frequency: Varies

TIER 2: Tier 2 Chemical Inventory Reports

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 06/11/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 67

Source: Department of State Health Services
Telephone: 512-834-6603
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Annually

RWS: Radioactive Waste Sites

Sites in the State of Texas that have been designated as Radioactive Waste sites.

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 12/14/2006
Date Made Active in Reports: 01/23/2007
Number of Days to Update: 40

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0859
Last EDR Contact: 08/24/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 05/12/2010
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/23/2010
Next Scheduled EDR Contact: 11/08/2010
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/10/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009
Date Data Arrived at EDR: 12/18/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/15/2010
Next Scheduled EDR Contact: 12/27/2010
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/21/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 07/07/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 39

Source: Texas Commission on Environmental Quality
Telephone: 512-239-0986
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 07/27/2010
Date Data Arrived at EDR: 07/28/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 20

Source: Texas Commission on Environmental Quality
Telephone: 512-239-6239
Last EDR Contact: 07/23/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/25/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/28/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 09/24/2010
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 08/23/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/29/2010
Date Data Arrived at EDR: 05/14/2010
Date Made Active in Reports: 06/22/2010
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/26/2010
Next Scheduled EDR Contact: 11/08/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/20/2010
Next Scheduled EDR Contact: 01/03/2011
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Protective & Regulatory Services
Telephone: 512-438-3269

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FORT WOLTERS
CROSS POST RD/ GRANT RD
MINERAL WELLS, TX 76067

TARGET PROPERTY COORDINATES

Latitude (North):	32.83700 - 32˚ 50' 13.2''
Longitude (West):	98.0555 - 98˚ 3' 19.8''
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	588396.8
UTM Y (Meters):	3633421.5
Elevation:	879 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	32098-G1 MINERAL WELLS EAST, TX
Most Recent Revision:	1984

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

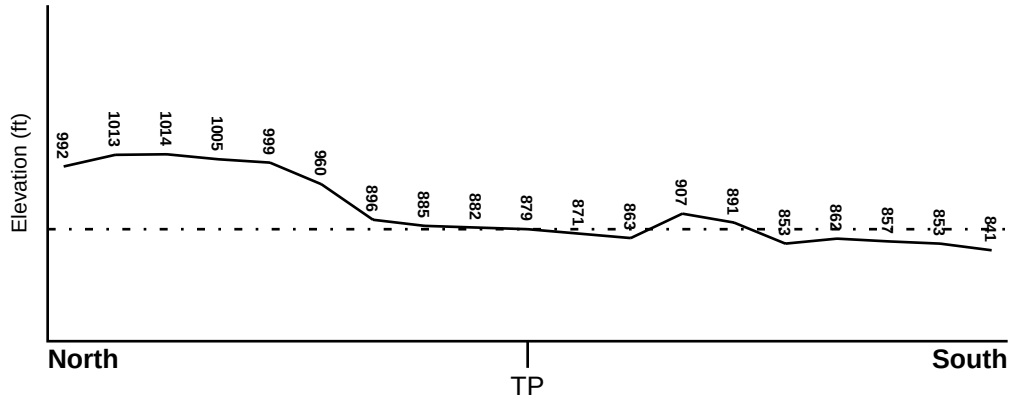
TOPOGRAPHIC INFORMATION

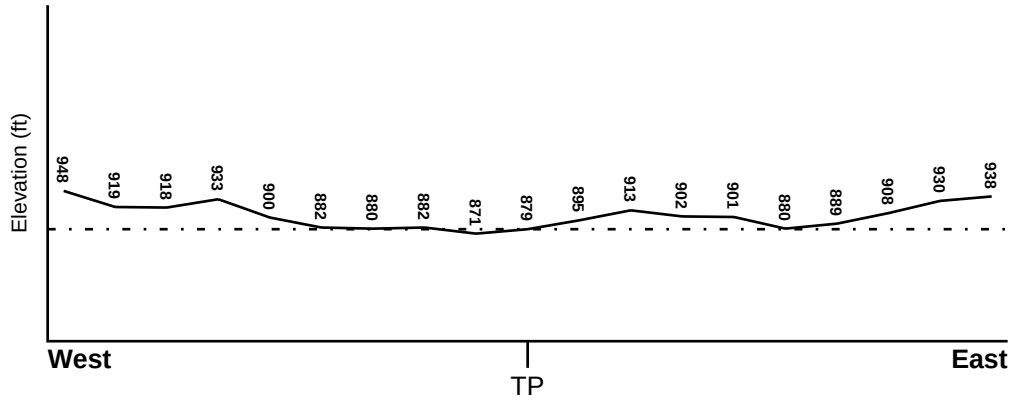
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 879 ft.

0 1/2 1 Miles

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
PARKER, TX	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 48367C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Pennsylvanian
Series:	Des Moinesian Series
Code:	PP2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Component Name:	BONTI
Soil Surface Texture:	stony - fine sandy loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 20 inches
Depth to Bedrock Max:	> 40 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	8 inches	stony - fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	8 inches	30 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 6.00 Min: 5.10
3	30 inches	32 inches	weathered bedrock	Not reported	Not reported	Max: 2.00 Min: 0.20	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: very stony - fine sandy loam
fine sandy loam
stony - clay
loamy fine sand
silty clay loam

Surficial Soil Types: very stony - fine sandy loam
fine sandy loam
stony - clay
loamy fine sand
silty clay loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: very shaly - clay
shaly - clay
silty clay loam
fine sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

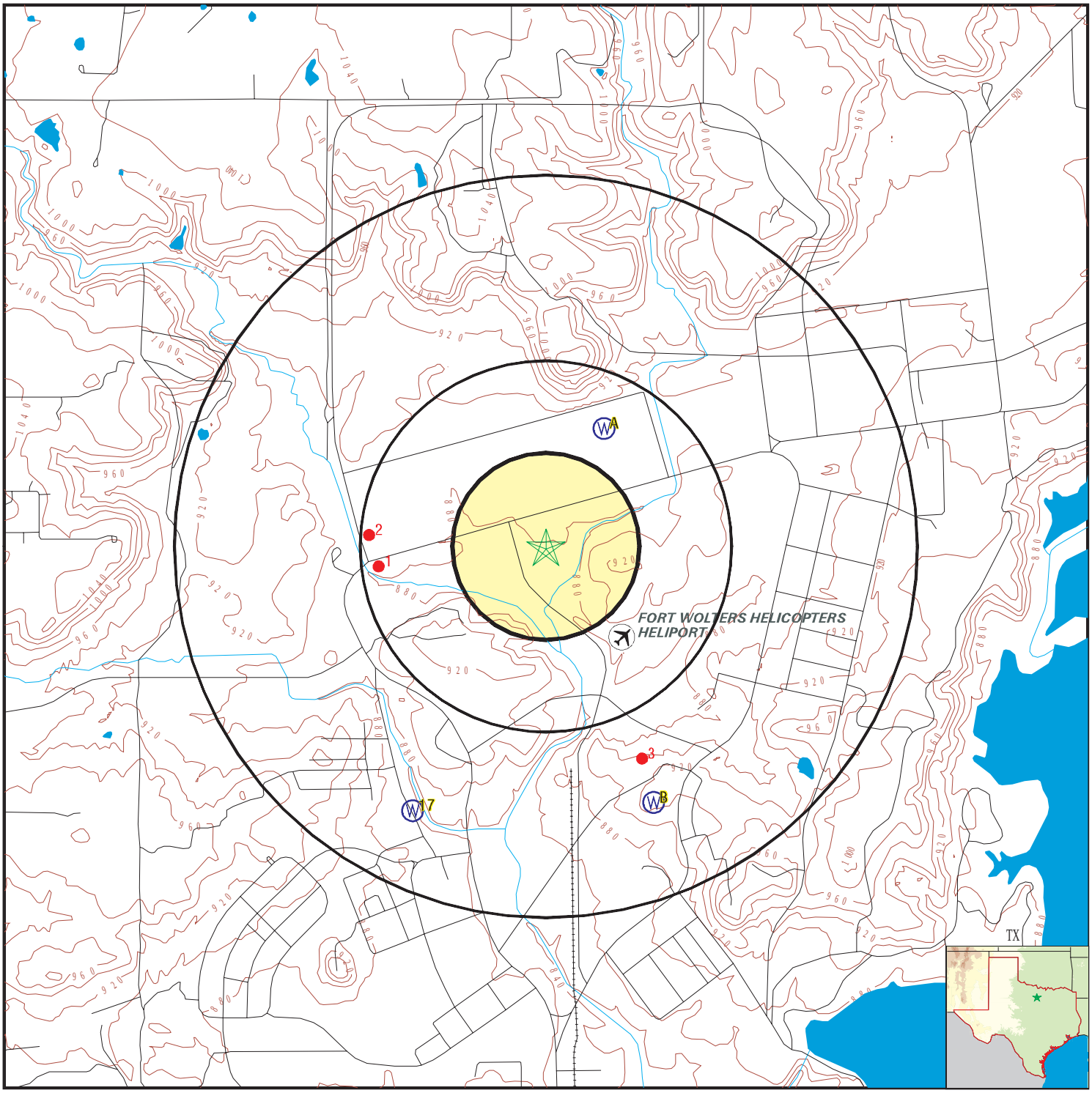
MAP ID	WELL ID	LOCATION FROM TP
A1	TXMON1000125882	1/4 - 1/2 Mile NNE
A2	TXPLU1000040528	1/4 - 1/2 Mile NNE
A3	TXPLU1000040529	1/4 - 1/2 Mile NNE
A4	TXPLU1000040526	1/4 - 1/2 Mile NNE
A5	TXPLU1000040527	1/4 - 1/2 Mile NNE
A6	TXPLU1000040532	1/4 - 1/2 Mile NNE
A7	TXPLU1000040533	1/4 - 1/2 Mile NNE
A8	TXPLU1000040530	1/4 - 1/2 Mile NNE
A9	TXPLU1000040531	1/4 - 1/2 Mile NNE
A10	TXPLU1000040525	1/4 - 1/2 Mile NNE
B11	TXMON1000124800	1/2 - 1 Mile SSE
B12	TXMON1000124801	1/2 - 1 Mile SSE
B13	TXMON1000124751	1/2 - 1 Mile SSE
B14	TXMON1000124768	1/2 - 1 Mile SSE
B15	TXMON1000124769	1/2 - 1 Mile SSE
B16	TXMON1000124707	1/2 - 1 Mile SSE
17	TXMON1000124750	1/2 - 1 Mile SSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	TXOG30000805032	1/4 - 1/2 Mile West
2	TXOG30000805253	1/4 - 1/2 Mile West
3	TXOG30000803712	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 02885355.1r



County Boundary
Major Roads
Contour Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil or gas wells

N

SITE NAME: Fort Wolters	CLIENT: Dougherty, Sprague Environmental, Inc.
ADDRESS: Cross Post Rd/ Grant Rd Mineral Wells TX 76067	CONTACT: Sherri Godsey INQUIRY #: 02885355.1r
LAT/LONG: 32.8370 / 98.0555	DATE: October 04, 2010 2:02 pm

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Map ID Direction Distance Elevation		Database	EDR ID Number
A1 **NNE** **1/4 - 1/2 Mile** **Higher**		**TX WELLS**	**TXMON1000125882**

Trackno:	52394	Dateentere:	01/28/2005
Ownname:	BJ Services Company		
Ownstreet:	555 Grant Rd		
Owncity:	Mineral Well	Ownstate:	TX
Ownzip:	77690	County:	Palo Pinto
Wellstreet:	Not Reported		
Wellcity:	Mineral Well	Wellzip:	Not Reported
Own:	MW 5-7	Latitude:	325028
Lat dec:	32.84111		
Longitude:	980311		
Long dec:	-98.053055		
Elev:	0	Brandmodel:	Not Reported
Gn:	31162	Gn1:	31
Gn75:	16	Gn25:	2
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	1
Ue:	0	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	01/25/2005	Datecomp:	01/25/2005
Dia1:	8.25	Dia1to:	25
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to .2 Asphalt .2 to 2 Base Material 2 to 12 Tan clay 12 to 16 Tan moist clay 16 to 19 Tan clay sand, wet 19 to 22 Tan stiff clay 22 to 23 Tan silty sand, wet 23 to 25 Dark gray, sandy clay, stiff and dry		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	1
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	3	Gpt:	25
Case Screen:	2 N PVC Riser 0/5 Sched. 40 2 N PVC Screen 5/25 0.010		
Cemfrom1:	1	Cemto1:	3
Nosacks1:	6 Bentonite	Cemfrom2:	1
Cemto2:	0	Nosacks2:	12 Cements
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Mixed by hand
Cementby:	Robert Hubler	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	1
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported

Watlevdate:	01/24/2005	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	0		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	1
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	dba Universal Drilling Services
Drllicno:	3150	Compstreet:	3532 Maggie Blvd
Compcity:	Orlando	Compstate:	FL
Compzip:	32811	Drillernam:	Robert Hubler
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000125882		

A2
NNE
1/4 - 1/2 Mile
Higher

TX WELLS **TXPLU1000040528**

Plugtrackn:	32304	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-3
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	1	Cfrom1:	0
Cto1:	1	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement

Cbfrom2:	2	Cbto2:	15
Cbsacks2:	1/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040528		

A3
NNE **TX WELLS** **TXPLU1000040529**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32296	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-4
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	1	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	15
Cbsacks2:	1/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported

Site id: TXPLU1000040529

A4
NNE **TX WELLS** **TXPLU1000040526**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32299	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-9
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	2	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	25
Cbsacks2:	1 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040526		

A5
NNE **TX WELLS** **TXPLU1000040527**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32300	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-8
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	2	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	25
Cbsacks2:	1 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040527		

A6
NNE
1/4 - 1/2 Mile
Higher

TX WELLS **TXPLU1000040532**

Plugtrackn:	32302	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		

Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-5
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	02/02/2000	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	1	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	15
Cbsacks2:	1/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040532		

A7
NNE **TX WELLS** **TXPLU1000040533**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32303	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-7
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	02/02/2000	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		

Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	2	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/2 Cement
Cbfrom2:	2	Cbto2:	25
Cbsacks2:	1 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040533		

A8
NNE **TX WELLS** **TXPLU1000040530**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32298	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-2
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	1	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement

Cbfrom2:	2	Cbto2:	15
Cbsacks2:	1/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040530		

A9
NNE **TX WELLS** **TXPLU1000040531**
1/4 - 1/2 Mile
Higher

Plugtrackn:	32301	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-6
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	02/02/2000	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	1	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	15
Cbsacks2:	1/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported

Site id: TXPLU1000040531

A10
NNE
1/4 - 1/2 Mile
Higher

TX WELLS **TXPLU1000040525**

Plugtrackn:	32297	Dateentere:	06/26/2006
Ownname:	BJ Services Co	Ownstreet:	555 Grant Rd
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	76067		
Wellstreet:	BJ Services Co		
Wellcity:	Mineral Wells	Wellzip:	76067
County:	Parker	Latitude:	325030
Lat dec:	32.841666		
Longitude:	980310		
Long dec:	-98.052777		
Brmod:	Magellan	Gn:	31162
Gn1:	31	Gn75:	16
Gn25:	2	Ownwellno:	MW-1
Typewater:	0	Typemon:	1
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	03/16/2006	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	12/27/2005		
Plugmethco:	Report late Discussed with David Gunn 6-26-06		
Plugopname:	Martin Straub	Plugoplic:	4653
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	1	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	2	Cfrom1:	0
Cto1:	0	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	0
Cbto1:	2	Cbsacks1:	1/4 Cement
Cbfrom2:	2	Cbto2:	25
Cbsacks2:	3/4 Bentonite	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	Straub Corporation	Compstreet:	P.O. Box 192
Compcity:	Stanton	Compstate:	TX
Compzip:	79782	Nameassig:	Martin Straub
Traineenam:	Not Reported	Tnum:	Not Reported
Site id:	TXPLU1000040525		

B11
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON1000124800**

Trackno:	89684	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B6	Latitude:	324939
Lat dec:	32.827499		
Longitude:	980302		
Long dec:	-98.050555		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		
Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported
Watlevdate:	07/18/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported

Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124800		

B12
SSE **TX WELLS** **TXMON1000124801**
1/2 - 1 Mile
Higher

Trackno:	89685	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B7	Latitude:	324939
Lat dec:	32.827499		
Longitude:	980302		
Long dec:	-98.050555		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		

Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported
Watlevdate:	07/18/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124801		

B13
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON1000124751**

Trackno:	89683	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B4	Latitude:	324936
Lat dec:	32.826666		
Longitude:	980304		
Long dec:	-98.051111		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0

Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		
Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported
Watlevdate:	07/18/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124751		

Map ID Direction Distance Elevation	Database	EDR ID Number
B14 **SSE** **1/2 - 1 Mile** **Higher**	**TX WELLS**	**TXMON1000124768**

Trackno:	89687	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B1	Latitude:	324937
Lat dec:	32.826943		
Longitude:	980301		
Long dec:	-98.050277		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		
Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported

Watlevdate:	07/18/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124768		

B15
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON1000124769**

Trackno:	89686	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B8	Latitude:	324937
Lat dec:	32.826943		
Longitude:	980300		
Long dec:	-98.05		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0

Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		
Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported
Watlevdate:	07/18/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124769		

B16
SSE
1/2 - 1 Mile
Higher

TX WELLS **TXMON1000124707**

Trackno:	89679	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	TMW13	Latitude:	324935
Lat dec:	32.826388		
Longitude:	980302		

Long dec:	-98.050555		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	1
Ue:	0	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	1	Bcot:	20/40 Silica Sand
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	2 New PVC Riser 0/20 Sched. 40 2 New PVC Screen 20/30 0.010 Slotted		
Cemfrom1:	0	Cemto1:	18
Nosacks1:	9 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported
Watlevdate:	07/28/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621

Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124707		

17
SSW **TX WELLS** **TXMON1000124750**
1/2 - 1 Mile
Lower

Trackno:	89681	Dateentere:	08/08/2006
Ownname:	Trinity Coatings		
Ownstreet:	830 Hood Rd.		
Owncity:	Mineral Wells	Ownstate:	TX
Ownzip:	Not Reported	County:	Palo Pinto
Wellstreet:	Same		
Wellcity:	Mineral Wells	Wellzip:	Not Reported
Own:	B10	Latitude:	324936
Lat dec:	32.826666		
Longitude:	980342		
Long dec:	-98.061666		
Elev:	0	Brandmodel:	Motorola
Gn:	31165	Gn1:	31
Gn75:	16	Gn25:	5
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	1	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	07/10/2006	Datecomp:	07/12/2006
Dia1:	8	Dia1to:	30
Dia2:	Not Reported	Dia2from:	Not Reported
Dia2to:	Not Reported	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 to 30 Tan Silty Sand w/Sandstone Seams		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	0	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	1
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	Not Reported		
Cemfrom1:	0	Cemto1:	30
Nosacks1:	12 Bentonite	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Gravity
Cementby:	Not Reported	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	0
Sca:	0	Watlev:	Not Reported

Watlevdate:	07/28/2006	Artflow:	Not Reported
Packers:	Not Reported		
Wellplug48:	1		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	0	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	Not Reported	Wtpump:	0
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	Not Reported
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	0
Watertype:	Not Reported	Stratdepth:	Not Reported
Chemanaly:	0	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Total Support Services
Drllicno:	54611	Compstreet:	P.O. Box 81621
Compcity:	Austin	Compstate:	TX
Compzip:	78708	Drillernam:	Brian Kern
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		
Site id:	TXMON1000124750		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance	Database	EDR ID Number

1
West
1/4 - 1/2 Mile

OIL_GAS **TXOG30000805032**

Surface id:	681393		
Well Type:	Injection/Disposal From Gas	Api:	36332749
Reliab:	RRC Hardcopy Map		
Longn:	-98.06292119		
Latn:	32.8360931		
Site id:	TXOG30000805032		

2
West
1/4 - 1/2 Mile

OIL_GAS **TXOG30000805253**

Surface id:	681406		
Well Type:	Dry Hole	Api:	36380969
Reliab:	RRC Hardcopy Map		
Longn:	-98.06336383		
Latn:	32.83731817		
Site id:	TXOG30000805253		

3
SSE
1/2 - 1 Mile

OIL_GAS **TXOG30000803712**

Surface id:	681510		
Well Type:	Dry Hole	Api:	36732353
Reliab:	RRC Hardcopy Map		
Longn:	-98.05072666		
Latn:	32.82857793		
Site id:	TXOG30000803712		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: TX Radon

Radon Test Results

County	Mean	Total Sites	%>4 pCi/L	%>20 pCi/L	Min pCi/L	Max pCi/L
PARKER	<.5	8	.0	.0	<.5	1.3

Federal EPA Radon Zone for PARKER County: 3

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

Federal Area Radon Information for Zip Code: 76067

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.820 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

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

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

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

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

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

STATE RECORDS

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

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

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

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

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

OTHER STATE DATABASE INFORMATION

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

RADON

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

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

OTHER

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

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

STREET AND ADDRESS INFORMATION

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ADJUTANT GENERALS FORT WOLTERS
BLDG 1180
MINERAL WELLS, TX 76067

Inquiry Number:
September 30, 2010

EDR Site Report™

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 5

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **ADJUTANT GENERALS FORT WOLTERS** BLDG 1180 MINERAL WELLS, TX 76067 EDR ID #S104957657
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	**YES - p4**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in a county/local unique database

DATABASE: State/County (LOCAL)

ADJUTANT GENERALS FORT WOLTERS
BLDG 1180
MINERAL WELLS, TX 76067
EDR ID #S104957657

LPST:

Facility ID:	2835
Facility Location:	BLDG 1180 PICKETT RD
Region City ID:	4
Region City:	ARLINGTON
LPST Id:	112843
Reported Date:	Not reported
Entered Date:	1/7/1998
Priority:	ASSESMENT INCOMPLETE, NO APPARENT THREATS OR IMPACTS TO RECEPTORS
Status:	FINAL CONCURRENCE ISSUED, CASE CLOSED
RPR Coordinator:	LEM
Responsible Party Name:	ADJUTANT GENERALS DEPT
Responsible Party Contact:	DAVID BOUCHER
Responsible Party Address:	PO BOX 5218
Responsible Party City,St,Zip:	AUSTIN, TX 78763 5218
Responsible Party Telephone:	512/465-5001

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

TX LPST: Leaking Petroleum Storage Tank Database
Source: Texas Commission on Environmental Quality
Telephone: 512-239-2200
An inventory of reported leaking petroleum storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/07/2010
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/09/2010
Date of Next Scheduled Update: 10/18/2010

BJ SERVICES FORT WOLTERS
BLDG 553 FORT WOLTERS
MINERAL WELLS, TX 76067

Inquiry Number:
September 28, 2010

EDR Site Report™

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **BJ SERVICES FORT WOLTERS** BLDG 553 FORT WOLTERS MINERAL WELLS, TX 76067 EDR ID #1010718799 EPA #110033528895
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	**YES - p4**
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

BJ SERVICES FORT WOLTERS
BLDG 553 FORT WOLTERS
MINERAL WELLS, TX 76067
EDR ID #1010718799

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.
Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID:	110033528895
Facility Name:	BJ SERVICES FORT WOLTERS
Facility Address:	BLDG 553 FORT WOLTERS MINERAL WELLS, TX 76067
Facility County:	PARKER
EPA Region:	06
Fed. Gov. Facility:	Not reported
Indian Tribal Land:	Not reported

Environmental Interest/Information System

Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Prg. Sys. ID:	RN102378015
Supplemental Interest:	PETROLEUM STORAGE TANK REGISTRATION
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported

Alternative name: BJ SERVICES FORT WOLTERS

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DATABASES FOUND IN THIS REPORT

FINDS: Facility Index System/Facility Registry System
Source: EPA
Telephone: Not reported
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Database Release Frequency: Quarterly
Date of Last EDR Contact: 09/15/2010
Date of Next Scheduled Update: 12/27/2010

FACILITY AT 553 FORT WOLTERS, MI
FACILITY AT 553 FORT WOLTERS, MINERAL WELLS
TX

Inquiry Number:
September 28, 2010

EDR Site Report™

Environmental Data Resources Inc

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **FACILITY AT 553 FORT WOLTERS, MINERAL WELLS** FACILITY AT 553 FORT WOLTERS, MINERAL WELLS TX EDR ID #S106992276
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	**YES - p4**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in a county/local unique database

DATABASE: State/County (LOCAL)

FACILITY AT 553 FORT WOLTERS, MINERAL WELLS
FACILITY AT 553 FORT WOLTERS, MINERAL WELLS
TX
EDR ID #S106992276

SPILLS:

Facility Id:	Not reported
Incident Number:	Not reported
Date of Spill:	07/28/89
Seq Num:	Not reported
Responsible Party Name:	WESTERN CO. OF N. AMERICA
Responsible Party Address:	PO BOX 998
Responsible Party City:	MINERAL WELLS
Responsible Party State:	TX
Responsible Party Zip:	76067
Responsible Party Telephone:	8173281221
Material:	ACIDIC WATER
Material Code:	2060
Media Affected:	NO
Permit Number:	3540
County Code:	182
District:	Arlington
Origin:	Other
Cause:	Corrosion
Adequate Clean:	NO
Basin Code:	1206
Notify Date:	Not reported
Classification:	Minor
Amnt Spilled:	UNKNOWN
Amnt in Water:	NONE
Water Affected:	NONE
Basin Name:	BRAZOS RIVER
Inspected By:	NONE
Interim Report:	Yes
Enforce:	Not reported
Information Final:	Not reported
Coordinator:	A. HAYES
Time Reported:	Not reported
Spill Time:	Not reported
Incident Type:	Not reported
Near City Name:	Not reported
Importance Level:	Not reported
Received Date:	Not reported
Start Date:	Not reported
Status Date:	Not reported
Media Name:	Not reported
Customer:	Not reported
Effect:	Not reported
Num Complaining:	Not reported
Frequency:	Not reported
Nature:	Not reported
Watertext:	Not reported
Air Text:	Not reported
Incident Status:	Not reported
Disputed Status:	Not reported
Disputed Date:	Not reported
Comments:	Not reported

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

TX SPILLS: Spills Database
Source: Texas Commission on Environmental Quality
Telephone: 512-239-0983
Spills reported to the Emergency Response Division.

Date of Government Version: 06/04/2010
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/30/2010
Date of Next Scheduled Update: 12/13/2010

15.4.2 – Sanborn/Fire Insurance Map Search

See attached response from EDR regarding absence of fire insurance maps.

Fort Wolters
Cross Post Road/Grand Road
Mineral Wells, TX 76067

Inquiry Number: 2861496.3
October 04, 2010

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/04/10

Site Name:
Fort Wolters
Cross Post Road/Grand Road
Mineral Wells, TX 76067

Client Name:
Dougherty, Sprague
3902 Industrial St.
Rowlett, TX 75088

EDR Inquiry # 2861496.3

Contact: Sherri Godsey

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Dougherty, Sprague Environmental, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Fort Wolters
Address: Cross Post Road/Grand Road
City, State, Zip: Mineral Wells, TX 76067
Cross Street:
P.O. # NA
Project: 1037503
Certification # 412A-4131-99BF

Sanborn® Library search results
Certification # 412A-4131-99BF

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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15.4.3 – Fire Department Documentation

A Public Records request was submitted to the City Clerk's Office (cityclerk@mineralwellstx.gov) for information from the Mineral Wells Fire Department regarding any known environmental issues associated with the Subject Property. A response is pending.

115 S.W. 1ST STREET, P.O. BOX 460, MINERAL WELLS, TX 76068
TELEPHONE: 940-328-7702 FAX: 940-328-7704
cityclerk@mineralwellstx.gov

PUBLIC RECORDS REQUEST

BY Sherri Godsey PHONE 972-412-8666 ON 10/1/10

DOCUMENTS REQUESTED (PLEASE WRITE LEGIBLY):

Site on Fort Wolters, east side of Grant Road at Cross Post Rd. Seven vacant buildings (one has collapsed). Former Ft. Wolters motor pool area and classrooms. Bldgs. numbered 540, 541, 578, 551, 552, 571, 575, and 576 Grant Rd. Currently owned by TX Dept of Criminal Justice. Does the Fire Dept have any record of environmental concerns - ie. UST installation/removal? Hazardous material spills? Emergency response? The site has been vacant about 20 years.

REQUEST REFERRED TO Fire Marshal

OF THE _____ DEPARTMENT ON ___/___/___

INFORMATION RECEIVED IN THE CITY CLERK'S OFFICE ON ___/___/___

NOTIFIED PETITIONER ON ___/___/___ TIME OF NOTIFICATION ___:___ (a./p.) m.

STATEMENT OF RECEIPT

I verify that I received the above named documents on ___/___/___ at ___:___ (a./p.) m.

_____

No. of pages _____
Cost _____
Paid _____

Rev. 07/28/2010

Grant
Road
Subject Site
Cross
Post Rd
INQUIRY #: 2861496.5
YEAR: 2006
= 604'
N

Dougherty Sprague Environmental, Inc.
3902 Industrial Street, Suite A
Rowlett, Texas 75088

MANAGER	APP. DATE	FILE NAME	
DAF		CAD\Drawing.dwg-15.1.1	
APPROX. SCALE	DRAWN	DATE	PROJECT
1"=200'	CS	9/20/10	1037503

Aerial Source:
Google Earth
April 2008

0' 200'
APPROXIMATE SCALE IN FEET

N

LEGEND
Subject Property Boundary

FIGURE 15.1.1
ON-SITE PROPERTY MAP

USACE-Ft. Worth
Fort Wolters
Cross Point Road/Grand Road
Mineral Wells, TX 76067

15.4.4 – Building Department Documentation

City of Mineral Wells Building Department:

The Subject Property was originally developed in the late 1950s, with additions of several buildings made between 1964 and 1976. Due to the early dates of development, as well as the military nature and government ownership of the Subject Property, no construction permit records were identified for the Subject Property at the Mineral Wells Building Department.

15.4.5 – State Governmental Agency Documentation

A review request to the Office of the Texas Historic Preservation Officer (SHPO) was not included in the scope of this assessment.

15.4.6 – Recorded Land Title Records

Based on review of information provided by the Parker County Appraisal District (PCAD), the legal description for the Subject Property is:

- Acres 16.370, TR; PT 26.690 AC, BLK; Surv: T&P RR Co.; Property ID R000058838
- The Appraisal plat map shows the Subject Property to be located within the "Wolters 500 Industrial Addition", A-1551.

Review of the Lien Search Report provided by EDR indicated that the Subject Property was granted by General Services Department (grantor) to the Texas Department of Criminal Justice (grantee) in May 1990 (Book 1734, Page 1054, Instrument 32275).

A Parker County Clerk's Office representative explained that deed records at that agency are filed according to sell/purchase dates. **dse** did not have information regarding the original purchase of the Subject Property and was therefore not able to conduct research beyond the 1990 sale date when the Texas Department of Criminal Justice obtained the Subject Property.

Parker County Appraisal District information updated 9/2/2010 Print Page

Identification

Owner Name:	TEXAS DEPT OF CRIMINAL JUSTICE
Property ID:	R000058838
Geographic ID:	21551.009.000.00
Property Address:	0
Legal Description:	Acres: 16.370, TR: PT 26.690 AC, BLK:, SURV: T & P R R CO
Map Number:	A-11

Property Tax Bills

View Bill Details **Proposed payment date:** 09/02/2010 **RECALCULATE PAYMENT** (with different proposed payment date)

Year	Taxing Detail	Base Tax	Paid Tax	Tax Due	Additional Fees*	Late Fees	Amount Due
2009	All applicable taxing entities	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2008	All applicable taxing entities	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2007	All applicable taxing entities	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Total Amount Due:			$0.00	$0.00	$0.00	**$0.00**

* Additional Fees include any applicable penalties and interest, attorney and/or late fees.

Ownership/Exemption Information

Name:	TEXAS DEPT OF CRIMINAL JUSTICE	**Ownership Interest :**	1.0000000
Mailing Address:	AUSTIN, TX 78701	**Exemptions Granted:**	Constitutionally Exempt

Property Valuation History

Values by Year		2010	2009	2008	2007	2006	n/a
Improvements	+	$0	$0	$0	$0	$0	$0
Land	+	$88,010	$88,010	$88,010	$88,010	$88,010	$0
Production Market	+	$0	$0	$0	$0	$0	$0
Personal	+	$0	$0	$0	$0	$0	$0
Mineral	+	$0	$0	$0	$0	$0	$0
Total Market	=	$88,010	$88,010	$88,010	$88,010	$88,010	$0
Agricultural Loss	-	$0	$0	$0	$0	$0	$0
Homestead Cap Loss	-	$0	$0	$0	$0	$0	$0
Total Assessed	=	$88,010	$88,010	$88,010	$88,010	$88,010	$0

Improvement / Buildings

Improvement Market Value: $0

Group Sequence	Code	Building Description	Year Built	Square Footage	Perimeter Footage

Land Details

Land Market Value: $88,010 **Production Market Value:** $0 **Production Value:** $0

Land Code	Acres	Sq. Ft.	Front Ft.	Rear Ft.	Depth	Mkt. Value	Prd. Value
999	16.370	713,077	0	0		88,005	0

Deed History

Sold By	Volume	Page	Deed Date	Instrument
n/a			1/1/1901	

Taxing Entities / Jurisdictions

Code	Description	Taxable Value	Tax Rate per $100	Tax
CMW	CITY OF MINERAL WELLS	0	0.004385300	$0.00
COL	JR COLLEGE DISTR	0	0.001049200	$0.00
GA	GARNER I.S.D.	0	0.010953600	$0.00
HOS	HOSPITAL DISTRICT	0	0.001136000	$0.00
LTR	LATERAL ROAD	0	0.000881800	$0.00
PAR	PARKER COUNTY	0	0.002871700	$0.00
	Total Estimation		**0.021277600**	**$0.00**

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Southwest Data Solutions is not responsible for any errors or omissions.

Map Grid A-12

FOR TAX PURPOSES ONLY

1 inch equals 400 feet

WHEN PRINTED AT FULL SCALE

Feet

0 250 500 1,000 1,500 2,000

Miles

0 0.25 0.5 1

PROPERTY OF PARKER COUNTY APPRAISAL DISTRICT

LOVELAND

WWW.LLSVC.COM

Map Grid A-11

FOR TAX PURPOSES ONLY

1 inch equals 400 feet

WHEN PRINTED AT FULL SCALE

Feet

0 250 500 1,000 1,500 2,000

Miles

0 0.25 0.5 1

PROPERTY OF PARKER COUNTY APPRAISAL DISTRICT

LOVELAND

WWW.LLSVC.COM

Fort Wolters
Cross Point Road/Grand Road
Mineral Wells, TX 76067

Inquiry Number: 2861496.7
September 07, 2010

The EDR Environmental LienSearch™ Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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

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The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

Cross Point Road/Grand Road
Fort Wolters
Mineral Wells, TX 76067

RESEARCH SOURCE

Source 1:

Parker County Clerk
Parker, TX

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Deed
Title is vested in:	State of Texas, Texas Department of Criminal Justi
Title received from:	United States of America
Deed Dated	5/11/1990
Deed Recorded:	5/16/1990
Book:	1734
Page:	1054
Volume:	NA
Instrument:	32275
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	State of Texas, Texas Department of Criminal Justice
Property Identifiers:	R000058838
Comments:	See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

DEED WITHOUT WARRANTY 32275

STATE OF TEXAS ◊

COUNTY OF PARKER ◊

KNOW ALL MEN BY THESE PRESENTS:

THAT the UNITED STATES OF AMERICA acting by and through the Administrator of General Services (hereinafter sometimes called "Grantor"), under and pursuant to authority of the Federal Property and Administrative Services Act of 1949 (63 Stat. 377, 40 U.S.C. 471, et seq.), as amended, and rules, orders, and regulations issued pursuant thereto, for and in consideration of the policy expressed in Sec. 701 of Public Law 98-473 (40 U.S.C. 484(p)) and in consideration of the use and maintenance of the hereinafter described premises for a minimum security correctional facility by the Grantee, does by these presents bargain, sell, grant and convey, without warranty, express or implied, unto the STATE OF TEXAS, TEXAS DEPARTMENT OF CRIMINAL JUSTICE (herein sometimes called "Grantee"), its successors and assigns, subject to the reservations, exceptions, covenants and conditions hereinafter set forth, the following described property situated in the County of Parker, State of Texas, to-wit:

TRACT I

A 10.32 acre tract of land out of the T&P R.R. Company Survey, Abstract 1549 in Parker County, Texas, being a part of a 52.47 acre tract as described in Vol. 649, Pages 524 and 525 of the Deed Records of Parker County, Texas, and being more fully described by metes and bounds as follows:

FROM a Brass Monument inscribed "City of Mineral Wells" at the intersection of the west boundary line of Heintzelman Road with the south boundary line of Wagner Road said point being the northeast corner of the above mentioned 52.47 acre tract of land, said point being S 86°41'30" E, 7,973.05 ft. from the northwest corner of the T&P R.R. Company Survey Abstract 869, Palo Pinto County, Texas;

THENCE S 12°51'11" W along the west right-of-way boundary line of Heintzelman Road, a distance of 440.03 feet to the point of beginning;

THENCE along the west right-of-way boundary line of Heintzelman Road S 12°51'11" W, a distance of 448.43 feet to a steel rod at the intersection of the west right-of-way boundary line of said Heintzelman Road with the south right-of-way boundary line of Warren Road for a corner;

THENCE along the south right-of-way boundary line of Warren Road N 77°10'31" W, a distance of 514.28 feet to a steel rod for a corner;

THENCE S 12°51'11" W, a distance of 386.0 feet to a steel rod for a corner;

THENCE along the north right-of-way boundary line of Hill Road N 77°10'31" W, a distance of 266.5 feet to a steel rod in the east right-of-way boundary line of Reynolds Road for a corner;

THENCE along the east right-of-way boundary line of Reynolds Road N 12°50'57" E, a distance 826.03 feet to the south right-of-way boundary line of Schofield Road for a corner;

THENCE along the south right-of-way boundary line of Schofield S 77°47'30" E, a distance of 780.884 feet to the west right-of-way boundary line of Heintzelman Road to the point of beginning, containing 10.32 acres, more or less.

TRACT II

A 16.37 acre tract of land out of the T&P Railroad Company Survey Abstract 1551 in Parker County, Texas, said 16.37 acre tract of land also being a part of that certain 235.825 acre tract of land as described and recorded in Vol. 649, Page 521 thru 523 of the Deed Records of Parker County, Texas, said 16.37 acres being more particularly described by metes and bounds as follows:

BEGINNING at a point for corner at the intersection of the East boundary line of Cross Post Road with the centerline of a 20-foot wide general utility easement, said general utility easement being described in Vol. 649, Page 522, Deed Records of Parker County, Texas, said beginning point of the 16.37 acre tract of land being also on the West boundary line of the above mentioned 235.825 acre tract of land and being 2,227.82 feet North, 825.92 feet East and N 88°50'19" W, a distance of 3,488.35 feet from the beginning point of the above mentioned 235.825 acre tract of land whose beginning point is S 54°59'08" E, a distance of 6,769.11 feet from the Northwest corner of the T&P Railroad Co. Survey Abstract 869 in Palo Pinto County, Texas.

THENCE N 23°15'29" W along a chord of a curve to the right a distance of 188.31 feet to point for corner, said curve to the right having a radius of 503.68 feet, and a central angle of 36°10'51", whose chord bears N 32°47'15" W, a distance of 312.80 feet.

THENCE N 14°41'33" W along the East boundary line of Cross Post Road a distance of 716.91 feet to point for corner at the intersection of said East boundary line of Cross Post Road with the South boundary line of Grant Road.

THENCE N 74°28'30" E along the South boundary line of Grant Road a distance of 850 feet to point for corner.

THENCE S 15°31'30" E, a distance of 490 feet to point for corner.

THENCE S 27°58'01" W, a distance of 712.32 feet to point for corner on the centerline of the above mentioned 20-foot general utility easement.

THENCE N 88°50'19" W along said centerline a distance of 360 feet to the place of beginning containing 16.37 acres of land, more or less.

SAVE AND EXCEPT, and there is hereby reserved unto Grantor and its assigns, all right, title, and interest in and to all oil, gas and other minerals in and under the above described land (Tracts I and II) herein conveyed; and it is hereby expressly agreed and understood that the GRANTOR herein and its assigns shall have, and they thereby have, the right and power to enter on and upon said land or any part thereof for the purpose of prospecting, mining, or operating for oil, gas, and other minerals on, upon or under said land, and of working, preparing, getting, and removing said oil, gas, and other minerals from under and away from said land and premises by all usual, necessary, and convenient means. It is understood and agreed that the use of the surface in relation to the operations herein described shall be on a site mutually acceptable to the GRANTOR herein and its assigns and the GRANTEE, its successors in function and assigns, so that such operations will interfere with the use of the surface by said GRANTEE, its successors and assigns, as little as practicable.

This deed and conveyance is expressly made subject to the following matters to the extent and only to the extent the same are valid and subsisting and affect the property.

Easements for public roads, highways, public utilities, railroads, and pipelines, including but not limited to the following:

a. Deed Without Warranty from the United States of America to the City of Mineral Wells for a sewage system dated September 30, 1975, and recorded in Vol. 620, Page 89, of the Deed Records of Parker County, Texas, and Vol. 472, Page 587 of the Deed Records of Palo Pinto County, Texas.

b. Deed Without Warranty from the United States of America to the City of Mineral Wells for a water system dated September 30, 1975, and recorded in Vol. 622, Page 502, of the Deed Records of Parker County, Texas, and Vol. 471, Page 432 of the Deed Records of Palo Pinto County, Texas.

c. Bill of Sale, Easement Deed and Assignment, all without warranty, from the United States of America to the TP&L Company for an electrical distribution system dated November 5,

1975, and recorded in Vol. 626, Page 1 of the Deed Records of Parker County, Texas, and Vol. 474, Page 133 of the Deed Records of Palo Pinto County, Texas.

d. Bill of Sale, Easement Deed and Assignment, all without warranty, dated March 12, 1976, from the United States of America to the Brazos River Gas Company for a gas distribution system dated March 12, 1976, and recorded in Vol. 634, Page 1 of the Deed Records of Parker County, Texas, and in Vol. 480, Page 71 of the Deed Records of Palo Pinto County, Texas.

e. Easements reserved in that certain Deed Without Warranty dated April 11, 1975, from the United States of America to Weatherford College of the Parker County Junior College District recorded in Volume 605, Page 196 of the Deed Records of Parker County, Texas, as corrected by Correction Deed dated September 9, 1976, recorded in Volume 649, Page 520 of the Deed Records of Parker County, Texas.

The Grantee covenants and agrees, for itself, its successors and assigns and every successor in interest to the property herein described or any part thereof, that:

a. Any construction or alteration is prohibited unless a determination of no hazard to air navigation is issued by the Federal Aviation Administration in accordance with Title 14, Code of Federal Regulations, Part 77, entitled "Objects Affecting Navigable Airspace," or under the authority of the Federal Aviation Act of 1958, as amended.

b. Except as herein expressly conveyed, this conveyance is made and accepted on the basis that the Grantee shall have no right of use, license, easement, servitude or usufruct for any purpose, by necessity or otherwise, express or implied, on, over or under any of the property of the United States. By acceptance of this conveyance Grantee covenants for itself and its assigns that no such right or interest will ever be asserted by reason of this conveyance to Grantee. This covenant shall run with the land.

c. The said Grantee and its successors and assigns shall not discriminate upon the basis of race, color, religion,

sex or national origin in the use or occupancy of the property, or in their employment practices conducted thereon. The United States of America shall be deemed a beneficiary of this covenant without regard to whether it remains the owner of any land or interest therein in the locality of the property hereby conveyed and shall have the sole right to enforce this covenant in any court of competent jurisdiction.

This conveyance is made and accepted on the condition that (1) the above described property shall be used and maintained for a minimum security correctional facility in perpetuity; and (2) the above described property shall not be sold, leased, mortgaged, assigned or otherwise disposed of, except to another local governmental agency for the same purpose with the prior consent of the Administrator of General Services Administration, or his successor in function. In the event of breach of any such condition as to all or any portion or portions of the above described property by the Grantee, its successors or assigns, regardless of the cause of such breach, all right, title and interest in and to such portion or portions of the above described property, in its then existing condition, including all improvements thereon, shall revert to and become the property of the United States of America at the option of and upon demand made in writing by the Administrator of the General Services Administration, or his successor in function. In such event the United States of America shall have the immediate right of entry upon said property, and the Grantee, its successors and assigns, shall forfeit all right, title and interest in said property and in any and all the tenements, hereditaments, and appurtenances thereunto belonging, and shall take such action and execute such documents as may be necessary or required to evidence transfer of title to the United States of America. The failure of the Administrator of the General Services Administration, or his successor in function, to insist upon complete performance of the above conditions shall not be construed as a waiver or relinquishment of future performance thereof, but the obligation of the Grantee, its successors and assigns, with respect to such future performance shall continue in full force and effect.

Said property transferred hereby has been reported to the Administrator of General Services and has been determined to be surplus for disposal pursuant to said Federal Property and Administrative Services Act of 1949, as amended, and applicable rules, orders and regulations.

TO HAVE AND TO HOLD the foregoing property, together with all and singular and rights, privileges, and appurtenances thereto in anywise belonging unto said Grantee, its successors and assigns forever, subject to the reservations, exceptions, covenants and conditions herein contained.

IN WITNESS WHEREOF, the United States of America has caused these presents to be executed this 11th day of May 1990.

UNITED STATES OF AMERICA
Acting by and through the
Administrator of General Services

By Hollis V. Rutledge Jr.
HOLLIS V. RUTLEDGE
Regional Administrator, Region 7
General Services Administration
Fort Worth, Texas

WITNESSES:

[illegible]

[illegible]

THE STATE OF TEXAS ◊

COUNTY OF TARRANT ◊

BEFORE ME, a Notary Public in and for the State of Texas, on this day personally appeared HOLLIS V. RUTLEDGE, known to me to be the person whose name is subscribed to the foregoing instrument, and known to me to be the Regional Administrator, Region 7, General Services Administration, Fort Worth, Texas, and acknowledged to me that the same was the act and deed of the United States of America and of the Administrator of General Services and that he executed the same as the voluntary act of

the United States of America and of the Administrator of General Services for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE at Fort Worth, Texas, this 11th day of [illegible] 19[illegible].

Notary Public, State of Texas

The foregoing conveyance is hereby accepted and the STATE OF TEXAS, TEXAS DEPARTMENT OF CRIMINAL JUSTICE, agrees, by this acceptance, to assume and be bound by all the obligations, conditions, covenants and agreements therein contained.

STATE OF TEXAS
TEXAS DEPARTMENT OF CRIMINAL JUSTICE

By James A. Lynaugh, Executive Director
Texas Department of Criminal Justice

STATE OF TEXAS ◊
COUNTY OF TRAVIS ◊

BEFORE ME, a Notary Public in and for the State of Texas, on this day personally appeared James A. Lynaugh, known to me to be the person whose name is subscribed to the foregoing acceptance, and known to me to be the Executive Director, Texas Department of Criminal Justice, and acknowledged to me that the same was the act and deed of the State of Texas, Texas Department of Criminal Justice, and that he executed the same as the act of the State of Texas, Texas Department of Criminal Justice, for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE at Huntsville Texas, this 14 day of September 1990.

Notary Public, State of Texas

3227752

RECEIVED

'97 ... 1:15

... PROVISION HEREIN WHICH RESTRICTS
... SALE, RENTAL, OR USE OF THE
... CRIBED REAL PROPERTY BECAUSE OF
... OR RACE IS INVALID AND UNENFORC...

STATE OF TEXAS COUNTY OF PARKER

I hereby certify that this instrument was filed on the date and time stamped hereon by me and was duly recorded in the volume and page of the named records of Parker County as stamped hereon by me

RECORDED ... 1997

SEAL

County Clerk, Parker County, Tex.

Texas Dept. of Criminal Justice
Attn: Jan Klinger
Land & Minerals Operations Dept
P.O. Box 99
Huntsville, TX 77342-0099

Fort Wolters
Cross Point Road/Grand Road
Mineral Wells, TX 76067

Inquiry Number: 2861496.8
September 02, 2010

The EDR Property Tax Map Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

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

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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15.4.7 – Local Street/City Directories

A City Directory-Abstract provided by EDR indicated that Polk's City directories for Mineral Wells, Texas, dated 1967, 1972, and 1978 were researched. No listings were identified for the Subject Property.

dse reviewed available Polk historical directories at the Mineral Wells Public Library for the years 1975, 1978, 9182, 1986, 1988, 1991-92, 1994, 1997, 1998, and 1999. No listings were identified for the Subject Property addresses (540, 541, 551, 552, 571, 575, 576, and 578 Grant Road) in the city directories reviewed.

Fort Wolters
Cross Post Rd/ Grant Rd
Mineral Wells, TX 76067

Inquiry Number: 2885355.2
October 07, 2010

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.

2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.

3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.

2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.

3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.

4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
1978	Polk's City Directory	-	-	-	-
1972	Polk's City Directory	-	-	-	-
1967	Polk's City Directory	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
538 Grant Rd	Client Entered	
548 Grant Rd	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Cross Post Rd/ Grant Rd
Mineral Wells, TX 76067

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched	Street Not Identified in Research Source
Grant Rd	1978, 1972, 1967

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Cross Post Rd/ Grant Rd	1978, 1972, 1967

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
538 Grant Rd	No Years Found
548 Grant Rd	No Years Found

Pub Lib, Mineral Wells
Mineral Wells (Polks)
1975, 1978, 1982, 1986, 1988, 1991-92 North road
Postal

1994 north Road listed
1997 506 Grant Rd.: Tidewater Compression Services
516 J-W Operating Co.
530 North Ridge Oil Co.
555 B.J. Western

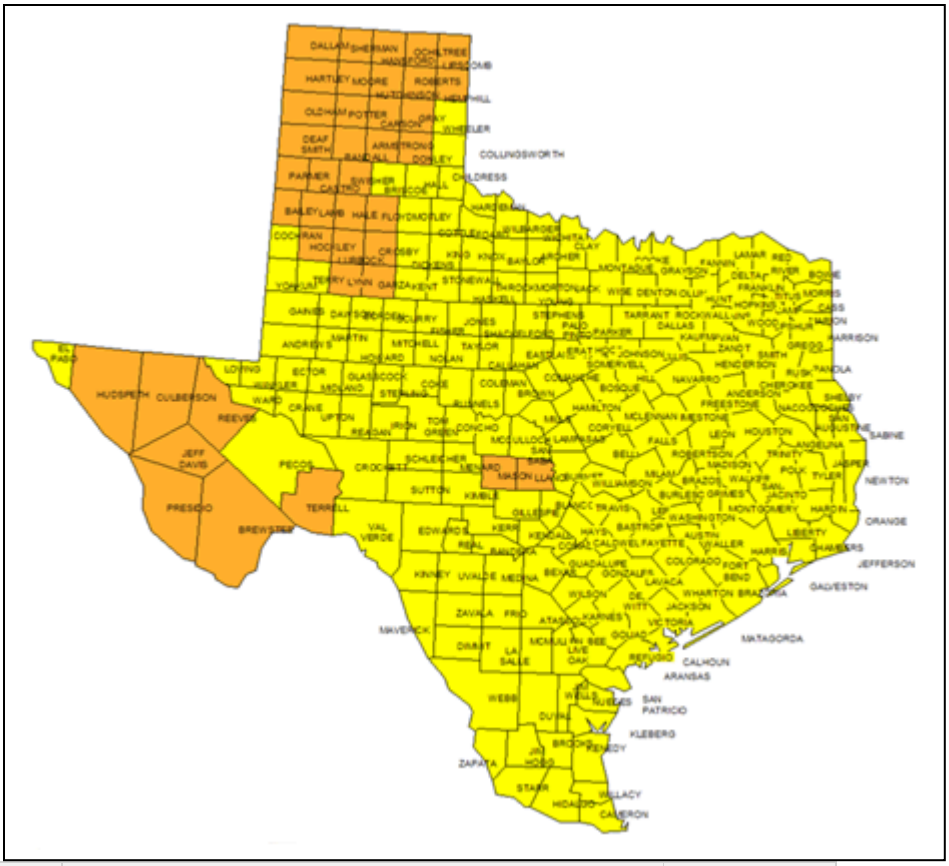
1998 Parker/Palo Pinto Counties Polk City Directory
Grant Rd.
517 J-W Operating Co.
548 Not Verified

1999 Parker/Palo Pinto Counties Polk
503 Edwin Engine & Machine Shop
517 Ft. Wolters Helicopter
J-W Operating crude, natl gas
528 Lone Star Internl Energy
553 Sigma Controls (indust equip)
555 BJ Services oil/gas field services
556 Dunn Mfrng (Fabricated Steel)

Pub Lib Weatherford TX
Mineral Wells Polk City Directory 1968
No listing for Grant Rd, No listing for Cross
— Ft. Wolters → Fort Wolters, Perry Equip Corp Filters Mgr

15.4.8 – EPA Map of Radon Zones, Texas

EPA: Reviewed radon information for Parker County provided at the EPA website is attached.



	Zone 1 counties have a predicted average indoor radon screening level greater than 4 pCi/L (pico curies per liter) **(red zones)**	**Highest Potential**
	Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L **(orange zones)**	**Moderate Potential**
	Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L **(yellow zones)**	**Low Potential**

15.4.9 – Drinking Water Report

Mineral Wells Water Department: Reviewed drinking water information for Mineral Wells Water Department provided at the agency website is attached.

2009 Annual Drinking Water Quality Report

(Consumer Confidence Report)

CITY OF MINERAL WELLS

Phone No. (940) 328-7777

Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:
Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromsied persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

Public Participation Opportunities

Date: *NONE SCHEDULED*
Time:
Location:
Phone No.: *(940) 328-7777*
To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements.
This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented on the reverse side of this page. We hope this information helps you become more knowledgeable about what's in your drinking water.

WATER SOURCES: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (940) 328-7865 para hablar con una persona bilingüe en español.

Where do we get our drinking water?
Our drinking water is obtained from SURFACE water sources. It comes from the following Lake/River/Reservoir/Aquifer: Lake Palo Pinto, Palo Pinto Creek, and Hilltop Presedimentation Reservoir. A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. The report will describe the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants.
When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800) 426-4791.

Secondary Constituents
Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly effect the appearance and taste of your water.

About the information listed in this report
The information listed in this report is all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

DEFINITIONS

Maximum Contaminant Level (MCL)
The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG)
The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL)
The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG)
The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectant to control microbial contamination.

Treatment Technique (TT)
A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL)
The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

ABBREVIATIONS

NTU -	Nephelometric Turbidity Units
MFL -	million fibers per liter (a measure of asbestos)
pCi/L -	picocuries per liter (a measure of radioactivity)
ppm -	parts per million, or milligrams per liter (mg/L)
ppb -	parts per billion, or micrograms per liter (ug/L)
ppt -	parts per trillion, or nanograms per liter
ppq -	parts per quadrillion, or picograms per liter

INORGANIC CONTAMINANTS

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2009	Fluoride	0.52	0.52	0.52	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2005	Gross beta emitters	5.8	5.8	5.8	50	0	pCi/L	Decay of natural and man-made deposits.

ORGANIC CONTAMINANTS

TESTING WAIVED, NOT REQUIRED, OR NONE DETECTED

MAXIMUM RESIDUAL DISINFECTANT LEVEL

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Contaminant
2009	Chloramine	3.17	1.5	3.8	4.0	<4.0	ppb	Disinfectant used to control microbes.

DISINFECTION BYPRODUCTS

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2009	Total Haloacetic Acids	24.2	16.1	28.2	60	ppb	Byproduct of drinking water disinfection.
2009	Total Trihalomethanes	49.4	27.1	62.4	80	ppb	Byproduct of drinking water disinfection.

UNREGULATED INITIAL DISTRIBUTION SYSTEM EVALUATION FOR DISINFECTION BYPRODUCTS

This evaluation is sampling required by EPA to determine the range of total trihalomethane and haloacetic acid in the system for future regulations. The samples are not used for compliance, and may have been collected under non-standard conditions. EPA also requires the data to be reported here.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2008	Total Haloacetic Acids	19.7	2.7	34.9	N/A	ppb	Byproduct of drinking water disinfection.
2008	Total Trihalomethanes	45.3	30.7	71.3	N/A	ppb	Byproduct of drinking water disinfection.

UNREGULATED CONTAMINANTS

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2009	Chloroform	3.89	3.89	3.89	ppb	Byproduct of drinking water disinfection.
2009	Bromoform	20.51	20.51	20.51	ppb	Byproduct of drinking water disinfection.
2009	Bromodichloromethane	16.08	16.08	16.08	ppb	Byproduct of drinking water disinfection.
2009	Dibromochloromethane	30.89	30.89	30.89	ppb	Byproduct of drinking water disinfection.

UNREGULATED CONTAMINANT MONITORING RULE 2 (UCMR2)

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Any unregulated contaminants detected are reported in the following table. For additional information and data, visit http://www.epa.gov/safewater/ucmr/ucmr2/index.html, or call the Safe Drinking Water Hotline at (800) 426-4791.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2009	Dimethoate	<0.71	<0.71	<0.71	ppb	Insecticide used on cotton and other field crops, orchard crops, vegetable crops, in forestry, and for residential uses.
2009	Terbufos Sulfone	<0.41	<0.41	<0.41	ppb	Degradate of the parent compound, terbufos; terbufos used for systemic control of soil-borne insects and nematodes in fields of corn, corn grain sorghum, and sugar beets.
2009	Tetrabromodiphenyl ether (BDE-47)	<0..30	<0..30	<0..30	ppb	Flame retardant added to plastics (for products such as computer monitors, televisions, textiles, and plastic foams)
2009	Pentabromodiphenyl ether (BDE-100)	<0.51	<0.51	<0.51	ppb	Flame retardant added to plastics (for products such as computer monitors, televisions, textiles, and plastic foams)
2009	Pentabromodiphenyl ether (BDE-99)	<0.91	<0.91	<0.91	ppb	Flame retardant added to plastics (for products such as computer monitors, televisions, textiles, and plastic foams)
2009	Hexabromodiphenyl (BDE-153)	<0.71	<0.71	<0.71	ppb	Flame retardant added to plastics (for products such as computer monitors, televisions, textiles, and plastic foams)
2009	Hexabromodiphenyl (HBB-245)	<0.81	<0.81	<0.81	ppb	Flame retardant additive; production of polybrominated biphenyls ended in 1976 in U.S. after an incident of significant accidental argricultural contamination in 1973.
2009	Dinitrobenzene	<0.82	<0.82	<0.82	ppb	Used in explosives; also formed as a by-product during the manufacture of the explosive TNT; used in the manufacture of aramid fibers, spandex, and dyes.
2009	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	<1.02	<1.02	<1.02	ppb	Used in detonators, priimers, mines, rocket boosters, and plastic explosives; used in fireworks and demolition blocks, and as a rodenticide.
2009	Trinitrotoluene (TNT)	<0.82	<0.82	<0.82	ppb	Used as an explosive in bombs and grenades, also used as a propellant; small amounts used for industrial explosive applications, such as deep well and underwater blasting: chemical intermediate in manufacture of dyestuffs and photographic chemicals.

LEAD AND COPPER

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Units of Measure	Source of Contaminant
2007	Lead	2.2	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2007	Copper	0.089	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

All water systems are required by EPA to report the language below starting with the 2009 CCR to be delivered to you by July of 2010. We are providing this information now as courtesy. "If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested,. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead."

TURBIDITY

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Units of Measure	Source of Contaminant
2009	Turbidity	0.20	100.00	0.3	NTU	Soil runoff

TOTAL ORGANIC CARBON

Total Organic Carbon (TOC) no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2009	Source Water	7.67	7.1	8.7	ppm	Naturally present in the environment
2009	Drinking Water	5.31	4.9	5.7	ppm	Naturally present in the environment
2009	Removal Ratio	1.18	1.07	1.37	% removal *	N/A

* Removal ration is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

CRYPTOSPORIDIUM MONITORING INFORMATION

In 2009, the City of Mineral Wells tested our raw water monthly for Cryptosporidium, a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the water shed. The results of our monitoring detected no cryptosporidium present.

TOTAL COLIFORM REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

FECAL COLIFORM REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

SECONDARY AND OTHER CONSTITUENTS NOT REGULATED

(No associated adverse health effects)

Year or Range	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2009	Bicarbonate	110	110	110	NA	ppm	Corrosion of carbonate rocks such as limestone.
2009	Chloride	37	37	37	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2006	Hardness as Ca/Mg	173	173	173	NA	ppm	Naturally occurring calcium and magnesium
2009	pH	7.7	7.7	7.7	>7.0	units	Measure of corrosivity of water.
2009	Sodium	33	33	33	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2009	Sulfate	53	53	53	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2009	Total Alkalinity as as CaCO3	110	110	110	NA	ppm	Naturally occurring soluble mineral salts.
2009	Total Dissolved Solids	280	280	280	1000	ppm	Total dissolved mineral constituents in water.

15.4.10 – UST and Petroleum Pipeline Removal Reports and Documentation

TEXAS WATER COMMISSION
UNDERGROUND STORAGE TANK (UST) CONSTRUCTION NOTIFICATION FORM

This form is provided to assist UST owners in complying with the construction notification requirements of TWC Rules, 31 TAC Chapter 334. The completion and filing of this form within the prescribed time should satisfy these requirements.

AMENDMENT TO ORIGINAL

1. TYPE OF CONSTRUCTION: (Indicate all that apply.)
   ___ Installation ___ Addition X Removal ___ Other (Specify) ___
   ___ Replacement ___ Improvement ___ Abandonment

2. FACILITY LOCATION INFORMATION:
   Facility Name: Ft. Wolters
   Address/Location: Bldg. 578 A Thru L
   County: Parker City: Mineral Wells, TX
   UST Facility No. (If Known): ___
   Telephone: ___

3. OWNER INFORMATION: Engineers
   Owner: Ft. Worth District, Corps
   Representative: Jim Wright
   Title: ___
   Address: 701 Camp Wisdom Road
   City/State/Zip: Grand Prairie, TX 75052-24
   Telephone: 214-263-2695

4. UST CONSULTANT INFORMATION:
   Company: Nelson, Nelson & Dean
   Representative: Boyce Bishop
   Address: P. O. Box 429
   City/State/Zip: Broken Arrow, OK 74013
   Telephone: 918-251-9848

5. UST CONTRACTOR INFORMATION:
   Company: Abertson
   Representative: Ken Duckworth
   Address: 1010 N. Mingo
   City/State/Zip: Tulsa, OK 74116
   Telephone: 918-832-8888

6. GENERAL DESCRIPTION OF PROPOSED UST ACTIVITY: (Describe all new or replacement tanks and other UST system components. Include closure procedures for UST abandonments or removals. Attach information as appropriate.)

   *In addition to the 30-day written notification required by 334.6(b)(2), the owner shall contact the appropriate district office 24 - 72 hours prior to the start of construction activity 334.6(b)(2)(C).

7. SCHEDULE/DATES FOR PROPOSED CONSTRUCTION:
   June 24, 1991 to July 24, 1991

8. SUBMITTED BY: Boyce Bishop Nelson, Nelson & Dean DATE: June 17, 1991
   Title & Company: President

9. MAIL COMPLETED FORM TO:

   Texas Water Commission
   Underground Storage Tank Section
   P.O. Box 13087, Capitol Station
   Austin, Texas 78711-3087

FOR TWC STAFF USE ONLY

Date Rec'd ___ Type Notice: ___
District ___ Dist. Rep. ___
Remarks ___

Logged by: ___ Date: ___

City of Mineral Wells

$ -0-

CITY OF MINERAL WELLS, TEX

[redacted]E OR PERMIT

№ 1541

EXPIRES 8-13-91

Issued to Abertson Contracting
Bldg 578 (Dept. Crim Justice Mineral Wells,

THIS IS TO CERTIFY that the above named, having presented proper credentials and paid the fees as noted above, to me, is hereby authorized to pursue said business commencing the 6 day of August 19 91, and ending 13 of Aug 19, 91, only in accordance with provisions of the Laws of the State of Texas, and the ordinances and regulations of the City of Mineral Wells, Texas.

Issued this 6th day of August 19 91

City of Mineral Wells, Texas

BY: Peter Allen

City of Mineral Wells

$ -0-

CITY OF MINERAL WELLS, TEXAS

~~CHARGE OR~~ PERMIT

№ 1537

EXPIRES 8-5-91

Issued to ABERSOTSON CONTRACTING
BLDG 578 (DEPT. CRIM JUSTICE) Mineral Wells,

THIS IS TO CERTIFY that the above named, having presented proper credentials and paid the fees as noted above, to me, is hereby authorized to pursue said business commencing the 29 day of JULY 19 91, and ending AUG. 5 19, 91, only in accordance with provisions of the Laws of the State of Texas, and the ordinances and regulations of the City of Mineral Wells, Texas.

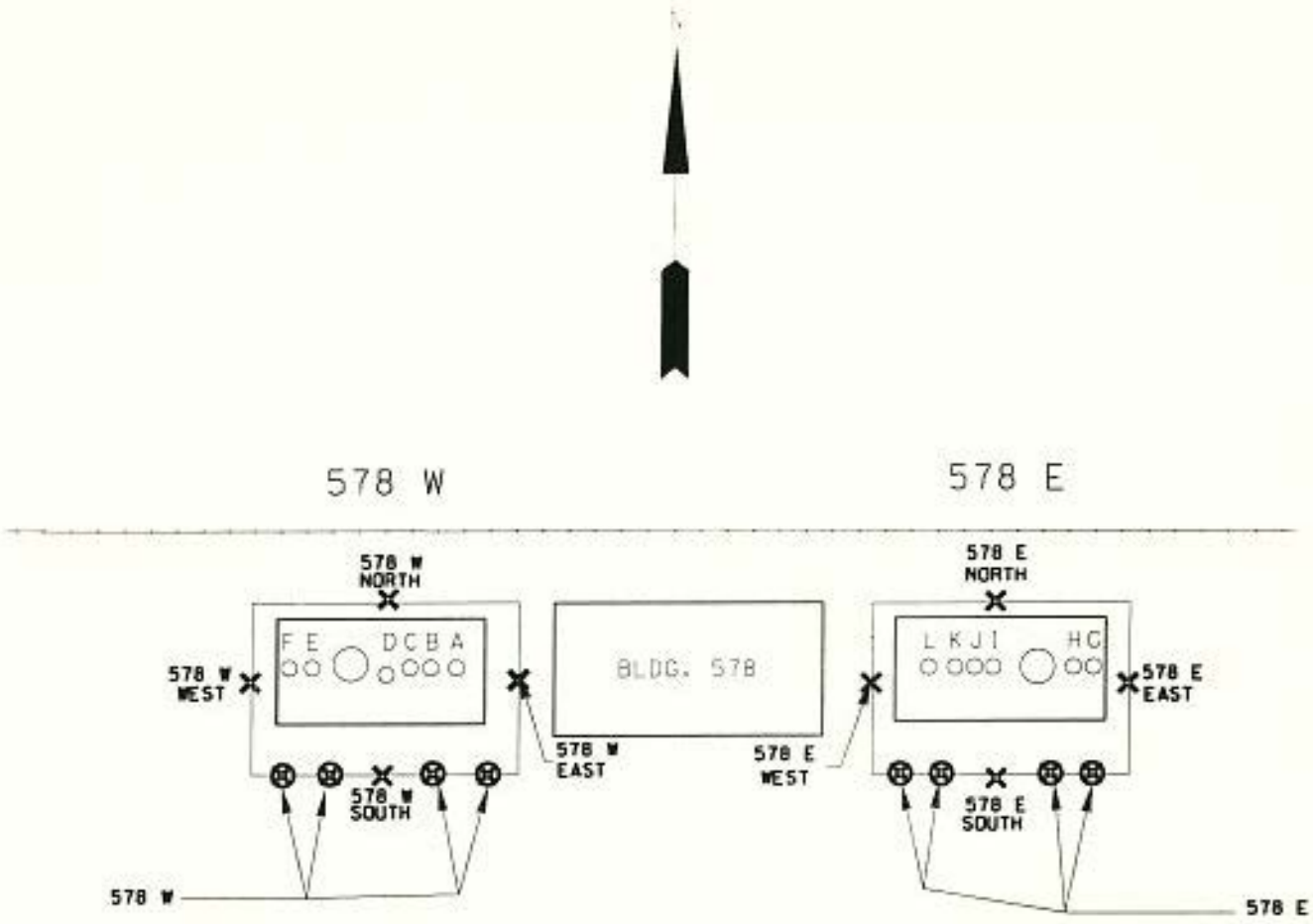
Issued this 29TH day of July 19 91

City of Mineral Wells, Texas

BY: Noel Gold

Initially, the Contractor composited all soil samples collected. The sidewall composite locations are not shown on the map because the Contractor was directed to return to the excavations and resample the individual sidewalls. The individual sidewall resampling locations are shown of the map. The composite sidewall chemical analyses, however, are listed in the chemical analysis results table.

The contract requires the Contractor to remove fuel lines two feet away from the excavation. The Corps of Engineers will have to issue a separate contract to remove all of the remaining fuel lines. The new contract will probably be issued in fiscal year 1994.



OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

NOT TO SCALE

LEGEND

✕ WALL SAMPLE

⊗ SIDEWALL COMPOSITE SAMPLE

578 E SAMPLE NUMBER (CORRESPONDS WITH TABLE)

FORT WOLTERS
MINERAL WELLS, TEXAS

REMOVAL OF UNDERGROUND
STORAGE TANKS

SITE SKETCHES

1010 N. Mingo
lsa, OK 74116

Phone (918) 832-966:
Fax (918) 834-282:

Exclusion Zone Entry/Exit For Personnel

SITE: # 578 Fort Walters

DATE: 1 (Day) 8 (Month) 91 (Year)

NAME:	TIME OF ENTRY	TIME OF EXIT	DECON REQUIRED	DECON COMPLETED	RECORDKEEPER'S INITIALS
Rick A	7am		no		Ken D
Ken D					
Gary T					
Crise					
	730am				
Rick	745				
Ken					
Gary					
Crise					
(Frede Warddo) Her	745	Fork Lift			
(Pete Canto)	745				
every one out		815 am			
Rick AL	1630				
Ken D					
Gary T					
Frede Warddo					
Pete Canto	→	12 Noon			

RDKEEPER: [signature] (Signature) [signature] (Initials)

1010 N. Mingo
Tulsa, OK 74116

Phone (918) 832-9663
Fax (918) 834-2823

Air Surveillance and Monitoring Log

SITE: #578 Fort Wolter

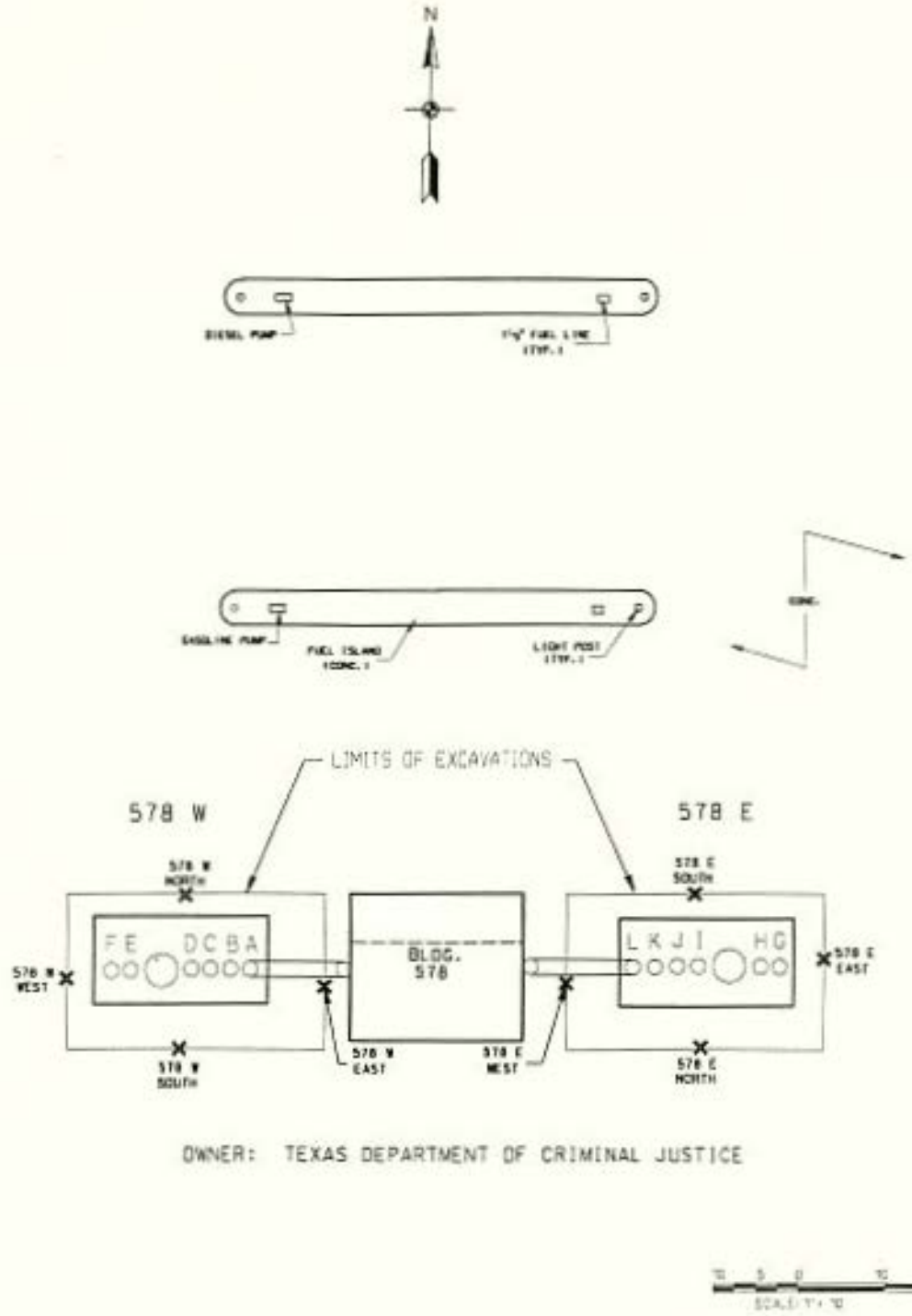
DATE: 01 (Day) 08 (Month) 1991 (Year)

TYPE OF EQUIPMENT USED	TIME OF READING	LOCATION OF READING	READING PPM	PERSON'S INITIALS TAKING READING
Background PPM	7AM	578	0	KD
Gasteck PPM	7:10 AM		2 ppm	KD
	7:30 AM		4 ppm	
	8:00 AM		6 ppm	
Background	8:30 AM		-0 ppm	
WORK AREA			-0 ppm	
	9:00	Back		
Start work	9:50		5 ppm	
[illegible]	0:45		[illegible]	
Ad	11 pm		4.5	
[illegible]	11:30		1-2	
Job Done	12:00			

PERSON TAKING READING: [signature] (Signature) [initials] (Initials)

Initially, the Contractor composited all soil samples collected. The sidewall composite locations are not shown on the map because the Contractor was directed to return to the excavations and resample the individual sidewalls. The individual sidewall resampling locations are shown of the map. The composite sidewall chemical analyses, however, are listed in the chemical analysis results table.

The contract requires the Contractor to remove fuel lines two feet away from the excavation. The Corps of Engineers will have to issue a separate contract to remove all of the remaining fuel lines. The new contract will probably be issued in fiscal year 1994.



OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

NOTE: ALL MEASUREMENTS WER PROVIDED BY ABERTSON CONTRACTING, TULSA, OKLAHOMA.

FORT WOLTERS
MINERAL WELLS, TEXAS

REMOVAL OF UNDERGROUND STORAGE TANKS

SITE MAP FOR BLDG. 578 AND SUSPECTED REMAINING PIPELINES

LEGEND

✕ WALL SAMPLE

578 E SAMPLE NUMBER (CORRESPONDS WITH TABLE)

ANALYTICAL DATA

BLDG #	TANK SIZE	DESCRIPTION/LOCATION	DATE SAMPLED	DATE ANALYZED	PARAMETERS	RESULTS mg/Kg
578 E	12,000	SIDEWALL COMPOSITE	08/01/91	08/13/91	INFRARED METHOD TPH	74.7
578 W	12,000	SIDEWALL COMPOSITE	08/01/91	08/15/91	INFRARED METHOD TPH	75.9
578 W	12,000	NORTH	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 W	12,000	SOUTH	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 W	12,000	EAST	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 W	12,000	WEST	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 E	12,000	NORTH	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 E	12,000	SOUTH	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 E	12,000	EAST	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0
578 E	12,000	WEST	09/13/91	09/16/91	INFRARED METHOD TPH	<50.0

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METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4951 SAM# 91-08-165

ATTN: RICHARD PRASTON DATE RECEIVED: 08/08/91 CONTACT RON

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 08/01/91 PO# NOT SPECIFIED

In accordance with your instructions, chemical analysis was performed on samples submitted from your company on the above date. The results of the analysis are listed below.

SAMPLE ID	PARAMETER	RESULTS	UNITS	ANALYST	ANALYZED	METHOD
578-E BACKFILL COMP SOIL	INFRARED METHOD TPH	227	mg/KG	JB	08/13/91	EPA 418.1
578-E SIDEWALL COMP SOIL	INFRARED METHOD TPH	74.7	mg/KG	JB	08/13/91	EPA 418.1
578-W BACKFILL COMP SOIL	INFRARED METHOD TPH	217	mg/KG	JB	08/13/91	EPA 418.1
578-W SIDEWALL COMP SOIL	INFRARED METHOD TPH	75.9	mg/KG	JB	08/15/91	EPA 418.1
578-W HOLE LIQUID BOTTOMS	INFRARED METHOD TPH	<1.00	mg/L	JB	08/19/91	EPA 418.1
578-E HOLE LIQUID BOTTOMS	INFRARED METHOD TPH	2.08	mg/L	JB	08/19/91	EPA 418.1

Should you have any questions, please feel free to call.

Approved by: Ronald L. Tackett, Supervisor
Organic Environmental Department

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2

METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4951 SAM# 91-08-165

ATTN: RICHARD PRASTON DATE RECEIVED: 08/08/91 CONTACT RON

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 08/01/91 ID BLANK A

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	0.002
ETHYL BENZENE	<0.002
XYLENE	0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 93 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX WATER
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc.
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2

METLAB TESTING REPORT

ABERTSON CONTRACTING

MLTS# 91 4951

SAM# 91-08-165

ATTN: RICHARD PRASTON

DATE RECEIVED: 08/08/91

CONTACT RON

COLLECTED BY: BOYCE BISHOP

DATE COLLECTED: 08/01/91

ID BLANK B

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 81

SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX WATER
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by

Ronald L. Tackett, Supervisor
Organic Environmental Department

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METLAB TESTING REPORT

ABERTSON CONTRACTING — MLTS# 91 4728 — SAM# 91-07-315

ATTN: BOYCE BISHOP — DATE RECEIVED: 07/31/91 — CONTACT TONY

COLLECTED BY: BOYCE BISHOP — DATE COLLECTED: 07/29/91 — PO# NOT SPECIFIED

In accordance with your instructions, chemical analysis was performed on samples submitted from your company on the above date. The results of the analysis are listed below.

SAMPLE ID	PARAMETER	RESULTS	UNITS	ANALYST	ANALYZED	METHOD
570E-L	INFRARED METHOD TPH	94.3	mg/L	JB	08/07/91	EPA 418.1
570W-L	INFRARED METHOD TPH	172	mg/L	JB	08/07/91	EPA 418.1
136A-L	INFRARED METHOD TPH	208,000	mg/L	JB	08/07/91	EPA 418.1
136B-L	INFRARED METHOD TPH	438,000	mg/L	JB	08/07/91	EPA 418.1
202A-L	INFRARED METHOD TPH	2,160,000	mg/L	JB	08/07/91	EPA 418.1
202B-L	INFRARED METHOD TPH	170,000	mg/L	JB	08/07/91	EPA 418.1
206A-L	INFRARED METHOD TPH	454,000	mg/L	JB	08/07/91	EPA 418.1
206B-L	INFRARED METHOD TPH	240,000	mg/L	JB	08/07/91	EPA 418.1

See the next page for more test results.

Approved by: Tony Mummolo, Manager
Environmental Services

METLAB Testing Services, Inc.
6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

METLAB TESTING REPORT

ABERTSON CONTRACTING
MLTS# 91 4728
SAM# 91-07-315

ATTN: BOYCE BISHOP
DATE RECEIVED: 07/31/91
CONTACT TONY

COLLECTED BY: BOYCE BISHOP
DATE COLLECTED: 07/29/91
ID 2-BLANKS 0101401C

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 91
SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX WATER
ANALYZED 08/07/91

Sampling Information:

FORT WOLTERS

COMMENTS:

Should you have any questions, please feel free to call.

Approved by
Ronald L. Tackett, Supervisor
Organic Environmental Department

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METLAB TESTING REPORT

ABERTSON CONTRACTING

MLTS# 91 4728

SAM# 91-07-315

ATTN: BOYCE BISHOP

DATE RECEIVED: 07/31/91

CONTACT TONY

COLLECTED BY: BOYCE BISHOP

DATE COLLECTED: 07/29/91

ID 578E-L

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	0.245
TOLUENE	18.3
ETHYL BENZENE	0.337
XYLENE	6.77

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 97

SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX LIQUID
ANALYZED 08/02/91

Sampling Information:

FORT WOLTERS

COMMENTS: SAMPLE MATRIX INTERFERENCE WITH TPH SURROGATE RECOVERY.

Should you have any questions, please feel free to call.

Approved by

Ronald L. Tackett, Supervisor
Organic Environmental Department

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METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4728 SAM# 91-07-315

ATTN: BOYCE BISHOP DATE RECEIVED: 07/31/91 CONTACT TONY

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 07/29/91 ID 578W-L

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	0.096
ETHYL BENZENE	<0.002
XYLENE	0.314

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 104 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX LIQUID
ANALYZED 08/07/91

Sampling Information:

FORT WOLTERS

COMMENTS:

Should you have any questions, please feel free to call.

Approved by

Ronald L. Tackett, Supervisor
Organic Environmental Department

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2

METLAB TESTING REPORT

ABERTSON CONTRACTING — MLTS# 91 4951 — SAM# 91-08-165

ATTN: RICHARD PRASTON — DATE RECEIVED: 08/08/91 — CONTACT RON

COLLECTED BY: BOYCE BISHOP — DATE COLLECTED: 08/01/91 — ID 578-E HOLE LIQUID BOTTOMS

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 102 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX WATER
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc. 6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

2

METLAB TESTING REPORT

ABERTSON CONTRACTING

MLTS# 91 4951

SAM# 91-08-165

ATTN: RICHARD PRASTON

DATE RECEIVED: 08/08/91

CONTACT RON

COLLECTED BY: BOYCE BISHOP

DATE COLLECTED: 08/01/91

ID 578-W HOLE LIQUID BOTTOMS

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 93

SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/L
INSTRUMENT GC
MATRIX WATER
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by

Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc.
6825 East [illegible]th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (91[illegible]) [illegible]7-3062

METLAB TESTING REPORT

ABERTSON CONTRACTING — MLTS# 91 6068 — SAM# 91-09-402

ATTN: RICHARD PRASTON — DATE RECEIVED: 09/25/91 — CONTACT GEORGE

COLLECTED BY: UPS — DATE COLLECTED: NOT SPECIFIED — PO# NOT SPECIFIED

In accordance with your instructions, chemical analysis was performed on samples submitted from your company on the above date. The results of the analysis are listed below.

SAMPLE ID	PARAMETER	RESULTS	UNITS	ANALYST	ANALYZED	METHOD
578-E--BACKFILL	INFRARED METHOD TPH	170	mg/KG	JB	09/28/91	EPA 418.1
578-W--BACKFILL	INFRARED METHOD TPH	131	mg/KG	JB	09/28/91	EPA 418.1

Should you have any questions, please feel free to call.

Approved by: George A. Dust,
Vice President

METLAB Testing Services, Inc.
6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

METLAB TESTING REPORT

ABERTSON CONTRACTING — MLTS# 91 5779 — SAM# 91-09-242

ATTN: RICHARD PRASTON — DATE RECEIVED: 09/13/91 — CONTACT TONY

COLLECTED BY: NOT SPECIFIED — DATE COLLECTED: NOT SPECIFIED — PO# NOT SPECIFIED

In accordance with your instructions, chemical analysis was performed on samples submitted from your company on the above date. The results of the analysis are listed below.

SAMPLE ID	PARAMETER	RESULTS	UNITS	ANALYST	ANALYZED	METHOD
578-west--north	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-west--south	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-west--east	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-west--west	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-east--north	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-east--south	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-east--east	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1
578-east--west	INFRARED METHOD TPH	<50.0	mg/KG	JB	09/16/91	EPA 418.1

Should you have any questions, please feel free to call.

Approved by: T. Mummolo
Tony Mummolo, Manager
Environmental Services

METLAB Testing Services, Inc. 6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

2

METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4951 SAM# 91-08-165

ATTN: RICHARD PRASTON DATE RECEIVED: 08/08/91 CONTACT RON

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 08/01/91 ID 578-E BACKFILL COMP SOIL

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 94 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST	JB
UNITS	mg/KG
INSTRUMENT	GC
MATRIX	SOIL
ANALYZED	08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc. 6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

2

METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4951 SAM# 91-08-165

ATTN: RICHARD PRASTON DATE RECEIVED: 08/08/91 CONTACT RON

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 08/01/91 ID 578-E SIDEWALL COMP SOIL

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	0.007

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 88 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/KG
INSTRUMENT GC
MATRIX SOIL
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc.
6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

2

METLAB TESTING REPORT

ABERTSON CONTRACTING
MLTS# 91 4951
SAM# 91-08-165

ATTN: RICHARD PRASTON
DATE RECEIVED: 08/08/91
CONTACT RON

COLLECTED BY: BOYCE BISHOP
DATE COLLECTED: 08/01/91
ID 578-W BACKFILL COMP SOIL

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 92
SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/KG
INSTRUMENT GC
MATRIX SOIL
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by
Ronald L. Tackett, Supervisor
Organic Environmental Department

METLAB Testing Services, Inc. 6825 East 38th Street • Tulsa, Oklahoma 74145 • (918) 664-7767 • Fax (918) 627-3062

2

METLAB TESTING REPORT

ABERTSON CONTRACTING MLTS# 91 4951 SAM# 91-08-165

ATTN: RICHARD PRASTON DATE RECEIVED: 08/08/91 CONTACT RON

COLLECTED BY: BOYCE BISHOP DATE COLLECTED: 08/01/91 ID 578-W SIDEWALL COMP SOIL

BTEX EPA METHOD 8020

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	0.004
ETHYL BENZENE	<0.002
XYLENE	<0.002

TPH BY EPA METHOD NA

TPH	NA

SURROGATE %RECOVERY FOR BTEX 85 SURROGATE %RECOVERY FOR TPH NA

Notes and Definitions:

ANALYST JB
UNITS mg/KG
INSTRUMENT GC
MATRIX SOIL
ANALYZED 08/12/91

Sampling Information:

FT. WOLTERS
#578

COMMENTS:

Should you have any questions, please feel free to call.

Approved by Ronald L. Tackett

Ronald L. Tackett, Supervisor
Organic Environmental Department

CHAIN OF CUSTODY

Company Name: NELSON, NELSON & DEAN

Chain of Custody Record

ETLAB

Site Name: FORT WOLTERS	Site Location:	Code:

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	BTEX	TRPH		S.E.L. Numbers
~~[illegible]~~	7-29-91						1	1		
~~[illegible]~~	7-29-91						1	1		
136A-L	7-29-91						1	1		
136B-L	7-29-91						1	1		
202A-L	7-29-91						1	1		
202B-L	7-29-91						1	1		
206A-L	7-29-91						1	1		
206B-L	7-29-91						1	1		
535A-L	7-30-91						1	1		
535B-L	7-30-91						1	1		
525A-L	7-30-91						1	1		
525B-L	7-30-91						1	1		
525C-L	7-30-91						1	1		
2-BLANKS 0101H01C	7-30-91									

Sampler's Signature (Relinquished by): Gaya Bishop		Received by:
Relinquished by:		Received by:
Relinquished by:		Received by: [signature] 7/31/91 11:37 am

Remarks: Chilled

*Indicate the number of containers for each analysis in the proper column.

- Company Name: ABERTSON

Chain of Custody Record

M .AB

Site Name:	Site Location:	Code:
~~[illegible]~~ FT. WOLTERS	578	

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	BTEX	TRPH	S.E.L. Numbers
578 E BACKFILL Comp soil	8-1-91					✓	✓		1 VOA 8 oz
578 E S2 SIDEWALL ~~Bottom~~									1 VOA 8 oz
578 E S3 SIDEWALL ~~Bottom~~						✓	✓		1 VOA 8 oz
578 E S1 SIDEWALL ~~Bottom~~									1 VOA 8 oz
578 E S4 SIDEWALL									1 VOA 8 oz
578 E S5 Bottom Comp						✓	✓		1 VOA 8 oz
578 W Bottom Comp						✓	✓		1 VOA 8 oz
578 W BACKFILL comp						✓	✓		1 VOA 18 oz
578 W SIDEWALL comp						✓	✓		1 VOA 18 oz
578 W HOLE LIQUID Bottoms	8-7-91					✓	✓		1 LTR
578 E HOLE LIQUID Bottoms	8-7-91					✓	✓		1 LTR
BLANK B 8-8-91	8-8-91					✓	✓		
BLANK A 8-6-91	8-8-91					✓	✓		

Sampler's Signature (Relinquished by):			Received by:
Relinquished by: Gary Jaquez			Received by:
Relinquished by:			Received by: [illegible] 8/8/91 12:30 pm

Remarks:

*Indicate the number of containers for each analysis in the proper column.

Company Name: ABERTSON

Chain of Custody Record

MT LAB

Site Name:	Site Location:	Code:
~~578~~ FT. WOLTERS	578	

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	BTEX	TRPH	S.E.L. Numbers
578 E BACKFILL Comp soil	8-7-91						✓	✓	1 VOA 8 oz
578 E S2 SIDEWALL ~~Bottom~~									1 VOA 8 oz
578 E S3 SIDEWALL ~~Bottom~~							✓	✓	1 VOA 8 oz
578 E S1 SIDEWALL ~~Bottom~~									1 VOA 8 oz
578 E S4 SIDEWALL									1 VOA 8 oz
578 E S5 Bottom Comp									1 VOA 8 oz
578 W Bottom Comp									1 VOA 8 oz
578 W BACKFILL comp							✓	✓	1 VOA 1 8 oz
578 W SIDEWALL comp							✓	✓	1 VOA 1 8 oz
578 W HOLE LIQUID Bottom	8-7-91						✓	✓	1 LTR
578 E HOLE LIQUID Bottom	8-7-91						✓	✓	1 LTR
BLANK B 8-8-91	8-8-91						✓	✓	
BLANK A 8-6-91	8-8-91						✓	✓	

Sampler's Signature (Relinquished by):			Received by:
Relinquished by: Gary Dangue			Received by:
Relinquished by:			Received by: [signature] 8/8/91 12:30 pm
Remarks:			

*Indicate the number of containers for each analysis in the proper column.

Company Name: ABERTSON CONTRACTING

Chain of Custody Record

MATLAB

Site Name:	Site Location:	Code:
PT. WOLTERS	578	

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	TRPH 418.1			S.E.L. Numbers
578 E BACKFILL	9-24-91						✓			① 8 oz.
578 W BACKFILL	9-24-91						✓			② 8 oz.

Sampler's Signature (Relinquished by): Bryce Bishop

Relinquished by: Bryce Bishop

Relinquished by:

Received by:

Received by:

Received by: Debbie DeVaglier

Remarks:

*Indicate the number of containers for each analysis in the proper column.

COMPANY NAME:
ADDRESS: Ahrentsen

Chain of Custody Record

METLAB

Site Name:	Site Location:	Code:
Fort Wolters	Mineral Springs TX	

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	418.1/9071			S.E.L. Numbers
578 West North	9.13.91	10:55					X			
South	↓	↓					↓			
East	↓	↓					↓			
West	↓	↓					↓			
578 East North	↓	↓					↓			
South	↓	↓					↓			
East	↓	↓					↓			
West	↓	↓					↓			

Sampler's Signature (Relinquished by): Bayne Bishop

Relinquished by:

Relinquished by:

Received by:

Received by:

Received by: Deborah Devasher

Remark

*Indicate the number of containers for each analysis in the proper column.

Company Name: ABERTSON

Chain of Custody Record

METLAB

Site Name:	Site Location:	Code:
~~[illegible]~~ FT. WOLTERS	578	

Sample Location	Date	Time	*GCMS Extractables	GCMS Purgeables	Metals	General Chemistry	BTEX	TRPH	S.E.L. Numbers
578 E Backfill Comp Soil	8-1-91						✓	✓	1 VOA 8 oz
578 E S2 SIDEWALL ~~Bottom~~ ✓	✓								1 VOA 8 oz
578 E S3 SIDEWALL ~~Bottom~~ ✓	✓						✓	✓	1 VOA 8 oz
578 E S1 SIDEWALL ~~Bottom~~ ✓	✓								1 VOA 8 oz
578 E S4 SIDEWALL ✓	✓								(1) VOA 8 oz
578 E S3 Bottom Compx ✓	✓						⊘	⊘	(1) VOA 8 oz
578 W Bottom Compx ✓	✓						⊘	⊘	1 VOA 8 oz
578 W Backfill comp ✓	✓						✓	✓	1 VOA 1 8 oz
578 W Sidewall comp ✓	✓						✓	✓	1 VOA 1 8 oz
578 W Hole Liquid Bottoms	8-7-91						✓	✓	1 LTR
578 E Hole Liquid Bottoms	8-7-91						✓	✓	1 LTR
Blank B 8-8-91	8-8-91						✓	✓	
Blank A 8-6-91	8-8-91						✓	✓	

Composite

Sampler's Signature (Relinquished by):		Received by:
Relinquished by: [signature]		Received by:
Relinquished by:		Received by: [signature] 8/8/91 12:30 PM

Remarks:

*Indicate the number of containers for each analysis in the proper column.

TESTING PROCEDURES

B 578

SECTION 01410 - SAMPLING PROCEDURES AND LABORATORY SERVICES

PART 1 - GENERAL

1. WORK INCLUDED: This section covers the sampling and analysis of soils and water to determine the presence and level of contamination.

2. APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

2.1 Environmental Protection Agency (EPA) Standards:

2.1.1 EPA/SW-846, "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", 3rd edition, November 1986.

2.1.2 EPA-600/4-79/20, "Methods for Chemical Analysis of Water and Wastes," Revised March 1983.

2.1.3 EPA-600/4-79-019, "Handbook for Analytical Quality Control in Water and Wastewater Laboratories," March 1979.

2.1.4 EPA-600/4-84-076 "Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition", December 1984, NTIS No. PB85-168771.

2.2 ER 1110-1-263, "Chemical Data Quality Management For Hazardous Waste Remedial Activities", USACE, March 1990.

2.3 Texas Water Commission Guidance Manual for LPST Cleanups in Texas.

3. CONTRACTOR REQUIREMENTS: The Contractor shall provide and coordinate the services of an environmental chemical laboratory to take samples and perform analyses. Laboratory capabilities must be provided for the duration of the work. The services and facilities must meet the requirements of this specification and are subject to inspection and prior approval by the Contracting Officer.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION

4. SAMPLING PLAN:

4.1 Sample Types: Soil, sludge, water, excavated soil, tank fluids and decontamination wash water samples will be collected as part of this project.

4.2 Sampling Personnel & Data Logging: Samples are to be taken by qualified personnel only. Personnel shall have documentable experience collecting hazardous waste samples and shall meet all health requirements for this type of work. Contractor shall maintain chain of custody control of all samples. Sampling personnel shall be under the direct control of the chemical laboratory.

Field sampling data shall be recorded in a bound log book consisting of the following:

(1) Date and time of sampling.

(2) Date and time of tank removal (as applicable).

(3) Sample Identification - alphanumeric field sample number.

(4) Sample Location - description of sample location. A hand-drawn sketch of the tank complex showing sample location shall be provided.

(5) Depth of Sample.

(6) Observations, including descriptions of material sampled, staining (if any), presence of odors, groundwater, etc.

(7) Field instrumentation readings.

(8) Weather conditions, e.g., temperature, wind, clouds, precipitation.

(9) Printed name of sampling personnel.

4.3 Sample Timing:

4.3.1 Tank Contents: As soon as is practicable before tank removal, one sample of each fluid layer shall be taken from each tank.

4.3.2 UST In-Place Soil: Following the excavation and removal of each underground tank, samples shall be taken of the exposed in-place soil. The samples should be taken preferably of undisturbed soil. These samples shall be taken as soon as is practicable after removal of the tank, but in no case more than two hours after tank removal. The only exception to this requirement will be if the two-hour limitation cannot be met because it would endanger the safety of sampling personnel, in which case the samples shall be taken as soon as the safety of sampling personnel is ensured. This two-hour limitation is required so as to minimize the evaporative loss of volatile petroleum products from the newly exposed soil and subsequent samples. The two-hour limitation will require close coordination with the laboratory to ensure the presence of a qualified laboratory sampling person at the time of tank removal.

4.3.3 Excavation Water: The seepage/flow of water into the excavation of sufficient quantities to inundate the soil designated for sampling may be justifiable cause for not taking soil samples. This condition, if occurring, must be adequately described in the log book required above. A sample of the exposed excavation water may be taken upon approval by the Contracting Officer in lieu of soil samples. Excavation water samples will be sampled within the same two hour time limit as specified in 4.3.2, above.

4.3.4 Excavated Soil: Soil excavated in the process of tank removal shall be sampled as soon as is practicable following excavation and tank removal. Ideally, this should occur within 24 hours of the initial excavation for any

particular tank. The intent here is to not give the potentially volatile contaminants a chance to evaporate from the excavated soil prior to sampling.

4.3.5 Decontamination Wash Water: The decontamination wash water ("decon water") will presumably be collected and stored in one or more suitable containers. This decon water will be tested to determine how it may be disposed of properly according to all local, State, and Federal regulations.

4.4 Sample Locations:

4.4.1 UST In-Place Soil: As tank and piping removal operations proceed, soils shall be observed/inspected for evidence of contamination. If areas of the exposed soil are visibly stained or register high readings on an organic vapor analyzer (OVA) as supplied and operated by the Contractor, then those areas shall be preferentially sampled. The intent is to sample the soil on a "worst case" basis such that any petroleum product or other contamination, if present, shall be sampled and identified. The Contractor shall select, subject to approval by the Contracting Officer, specific sample locations, sampling methods, and the number of samples to be taken. At each sample location soils shall be sampled for each analytical parameter that is specified. Typically soils immediately beneath the former location of each tank and from the sidewalls of each tank hole excavation shall be sampled. Additional samples shall be taken as required to satisfy the Texas Water Commission. If additional excavation is required to remove contaminated soil, then additional sampling locations shall be selected as required. For estimating purposes it is assumed that samples of in-place soil will be taken at an average of 4 locations for each UST.

4.4.2 Excavation Water: In those instances where the presence of water in the tank excavation prevents soil sampling, the excavation water itself will be sampled for each analytical parameter specified.

4.4.3 Excavated Soil: All excavated soil shall be tested by the Contractor for volatile organic contamination using headspace analyses utilizing a photoionization detector (PID). Sampling frequencies for this work shall be a minimum of one sample for every 25 cubic yards of excavated soil, or as required by Texas Water Commission Guidance Manual for LPST Cleanups in Texas. Excavated soil which registers greater than ten ppm above background levels in the headspace analyses shall be stockpiled and identified as potentially contaminated. Soils identified as potentially contaminated by the headspace screening procedure will be sampled for the specified analytical parameters at the same frequency that was used for headspace screening.

4.4.4 Decontamination Wash Water: Each container of decon water will be sampled for the specified analytical parameters and analyzed prior to transportation and disposal.

4.4.5 Tank Fluids: Fluid contents of all tanks will be sampled and analyzed for the specified analytical parameters. Tanks may contain more than one fluid layer which must be sampled separately.

4.5 Analytical Parameters:

4.5.1 UST In-Place Soil: In-place soil shall be analyzed for the following parameters:

a. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)

b. Total Recoverable Petroleum Hydrocabons (TRPH)

c. Methyl Tertiary Butyl Ether (MTBE)

4.5.1.1 In addition, samples suspected of being contaminated with motor oil, lubrication oil or solvents shall be analyzed for the following additional parameters:

a. Lead (total and E.P. Toxicity)

b. Total Organic Halogen (TOX)

4.5.2 Excavation Water: Excavation water shall be analyzed for the following parameters:

a. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)

b. Total Recoverable Petroleum Hydrocabons (TRPH)

4.5.2.1 In addition, samples suspected of being contaminated with motor oil, lubrication oil or solvents shall be analyzed for the following additional parameters:

a. Total Lead

b. Total Organic Halogen (TOX)

4.5.3 Excavated Soil: Excavated soil shall be analyzed for the following parameters:

a. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)

b. Total Recoverable Petroleum Hydrocabons (TRPH)

c. Methyl Tertiary Butyl Ether (MTBE)

4.5.3.1 In addition, samples suspected of being contaminated with motor oil, lubrication oil or solvents shall be analyzed for the following additional parameters:

a. Lead (total and E.P. Toxicity)

b. Total Organic Halogen (TOX)

4.5.4 Decontamination Wash Water: "Decon water" shall be analyzed for the following parameters:

a. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)

b. Total Recoverable Petroleum Hydrocabons (TRPH)

4.5.4.1 In addition, samples suspected of being contaminated with motor oil, lubrication oil or solvents shall be analyzed for the following additional parameters:

a. Total Lead
b. Total Organic Halogen (TOX)

4.5.5 Tank Fluids: Samples of tank contents shall be analyzed for the following parameters:

a. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)
b. Total Recoverable Petroleum Hydrocabons (TRPH)

4.5.5.1 In addition, tanks suspected of containing motor oil, lubrication oil or solvents shall be sampled and analyzed for the following additional parameters:

a. Total Lead

b. Total Organic Halogen (TOX)

4.6 Quality Control and Quality Assurance: Quality control samples will be taken as required below and sent to the Contractor's laboratory for analyses. Quality assurance samples will be taken as required below and sent to the U.S. Army Corps of Engineers, Southwestern Division Laboratory (SWDL), 4815 Cass Street, Dallas, TX 75235-8011. Sampling handling shall be according to COE protocols, reference 2.1.4, above.

4.6.1 Quality Control Samples: All quality control samples are to be analyzed by the contractors laboratory. The following paragraphs define the sample requirements.

4.6.1.1 Travel Blanks: A minimum of one travel blank will be shipped with every container containing aqueous samples to be analyzed for volatile organics. Travel blanks consist of containers of organic free reagent water that are kept with the field sample containers from the time they leave the laboratory until the time they return to the laboratory. Travel blanks will be analysed to determine whether the samples are being contaminated during transit or sample collection. Travel blanks will only be analyzed for volatile organics.

4.6.1.2 Rinsate Blanks: Rinsate blanks consist of reagent water collected from a final rinse of sampling equipment after the decontamination procedure has been performed. Rinsate blanks will be analysed to determine whether the sampling equipment is causing cross contamination of the sample. Rinsate blanks will be analyzed for all constituents and will be prepared as actual samples. Frequency will be one equipment blank/ 20 samples.

4.6.1.3 Quality Control Replicate: A portion of a triplicate sample, as noted

below, will be taken at the same time as the field sample. One sample for each sample group, or one in ten samples will be split into three portions for analysis as follows:

1) a field sample to be shipped to the contract laboratory
2) a QC replicate sample to be shipped to the contract laboratory
3) a QA replicate sample to be shipped to the SWDL

4.6.2 Quality Assurance Samples: A portion of the triplicate sample, as noted above, will be taken at the same time as the field sample. These samples will be sent to the SWDL.

4.7 Sample Procedures:

4.7.1 UST In-Place Soils: Soil samples shall be taken at a depth of 6 to 12 inches using a pre-cleaned ferrous metal shovel or ferrous metal hand trowel Method II-1 in reference 2.1.5. The top lip of the sample container shall be wiped free of residual sample prior to installing the threaded closure. The blade of the digging implement shall be cleaned immediately prior to use with a laboratory-grade non-phosphate detergent, e.g., (Ligni-Nex) solution, followed by thorough rinses with distilled/deionized water, methylalcohol, and lastly, distilled/deionized water. The implement shall be dried with a lint-free paper towel (e.g., Kimwipe) prior to use. Adequate safety precautions will be observed in the handling of methylalcohol.

4.7.2 Excavation Water: Excavation water shall be collected using a dipper, pond sampler, or other transfer device according to Methods III-1 or III-2 of ref. 2.1.5. When sampling for total recoverable petroleum hydrocarbons (TRPH) in this manner, care should be exercised to capture any observed floating oils so as to collect a "worst case" sample.

4.7.3 Excavation Soils: Soils should be sampled as soon as possible after excavations, preferably within 24 hours of excavation. Samples shall be taken from 12" to 24" depth from within the excavated soil stock. Samples may be taken either using Method II-1 (spade and scoop) or Method II-2 (auger and tube sampler) from Reference 2.1.5. Sampling devices shall be decontaminated between samples as described in paragraph 4.6.1, above.

4.7.4 Decontamination Wash Water: Decon water will be sampled using either Method No. III-9 (Bucket type bailer) or Method No. III-10 (peristaltic pump) from Reference 2.1.5.

4.7.5 Tank Fluids: The contents of some of the underground storage tanks have been previously sampled and analyzed by the Government. The Contractor shall only use these test results as a guide in planning for the proper disposal of the tank fluids. However, since these tanks are relatively insecure, since their histories cannot be guaranteed from the time of the last sampling to the start of construction, and since not all tanks were sampled, the Contractor shall consider the tank contents as unknown. Accordingly, the Contractor must sample and analyze each of the tank's contents in order to sufficiently characterize the tank fluid prior to pumping and disposal. The tanks may contain multiple fluid layers (e.g., petroleum products, water and chlorinated solvents), each of which

must be sampled and analyzed separately. With the exception of sampling activities, no fluids can be removed from any tank prior to the Contracting Officer's receipt and approval of the tank fluids test results. The difference layers of the tank contents must be sampled using Method III-10 (peristaltic pump) from Reference 2.1.5.

4.8 Sample Containers and Preservatives: Sample containers shall be pre-cleaned according to EPA/SW-846 specifications, and may be purchased commercially from I-Chem, Eagle Pitcher, or other equivalent source. Suitable containers and holding times are as follows:

Parameter	Container	Preservatives	Holding Times
A. WATER TESTING - EXCAVATION WATER AND DECON WATER:			
Volatile Organics (BTEX)	Two 40-ml glass VOA vials with Teflon septums, no headspace.	HCL to pH<2 Ice to 4C	Analyze within 14 days
Total Recoverable Petroleum Hydrocarbons (TRPH)	One 1-Liter amber glass bottle with Teflon-lined Lid, full	HCl to pH <2 Ice to 4C	To hold more than 48 hours, ice to 4C.
Total Organic Halogen (TOX)	One 1-Liter amber glass bottle with Teflon-Lined Lid, full	H_2SO_4 to pH<2 Ice to 4C	Analyze within 14 days.
Lead	One 1-Liter plastic bottle	HNO_3 to pH<2	Analyze within 6 months
B. IN-PLACE SOIL TESTING - UNDERGROUND STORAGE TANKS			
Total Recoverable Petroleum Hydrocarbons (TRPH)	One 8-oz. wide mouth glass jar, 3/4 full with Teflon-Lined Lid	Ice to 4C	Extract within 14 days and analyze within 40 days of extraction for extractable organics.

Volatile Organics (BTEX)	Two 125-ml glass VOA vials with Teflon septums, no headspace	Ice to 4C	Analyze within 14 days
Total Organic Halogen (TOX)	One 8-oz wide-mouth glass jar, 3/4 full with Teflon-Lined Lid	Ice to 4C	Analyze within 14 days
Lead	One 8-oz. wide-mouth glass jar, 3/4 full with Teflon-Lined Lid	None given	Analyze within 6 months.

C. SOIL TESTING - EXCAVATED SOIL

Headspace	One 8 oz. wide-mouth glass jar, 3/4 full with Teflon-Lined Lid	Ice to 4C	14 days

If the excavated soil fails the headspace test (i.e., if it tests >10 ppm), then the following will also be required:

Parameter	Container	Preservatives	Holding Times
Total Recoverable Petroleum Hydrocarbons (TRPH)	One 8 oz. wide-mouth glass jar, 3/4 full with Teflon-Lined Lid	Ice to 4C	Extract within 14 days and analyze within 40 days of extraction for extractable organics
Volatile Organics (BTEX)	Two 125 ml glass VOA vials with Teflon septums, no headspace	Ice to 4C	Analyzed within 14 days
Total Organic Halogen (TOX)	One 8-oz wide-mouthed glass jar, 3/4 full with Teflon-Lined Lid	Ice to 4C	Analyze within 14 days.

Lead	One 8-oz. wide-mouth glass jar, 3/4 full with Teflon-Lined Lid	None given	Analyze within 6 months.

D. TANK FLUIDS AND WATER

Volatile Organics (BTEX)	Two 40-ml glass VOA vials with Teflon septums. No headspace.	HCl to pH <2 Ice to 4C.	Analyze within 14 days.
Total Recoverable Petroleum Hydrocarbon (TRPH)	One 1-liter amber glass bottle with Teflon-Lined lid, full	HCl to pH <2 Ice to 4C.	To hold more than 48 hours ice to 4C.
Total Organic Halogen (TOX)	One 1-liter amber glass bottle with Teflon-lined lid, full	H_2SO_4 to pH <2, Ice to 4C.	Analyze within 14 days.
Lead	One 1-liter plastic bottle	HNO_3 to pH <2	Analyze within 6 months.

4.9 Labeling: Each sample container shall be clearly identified with the field sample number, date/time of sampling, and the name(s) of the sampling personnel. Field information shall be written in indelible ink and the label shall be affixed in such a manner to ensure it does not become separated from its respective container.

4.10 Preservation and Storage: Properly labeled sample containers shall be placed in zip-lock bags and stored in an iced picnic cooler during sampling operations. Following the conclusion of sampling operations on any given day, samples will either be shipped directly to the appropriate laboratories, or be transferred to refrigerated storage space maintained at 4C (39 degrees F). In every instance, samples must be received at the appropriate laboratories within four days of sample collection. Samples will be maintained in a refrigerated condition at all times, including during transportation.

5. SAMPLE ANALYSIS:

5.1 Qualification of Laboratory: The Contractor's laboratory shall be subject to validation by a representative of the Corps' Missouri River Division Laboratory. The proposed laboratory will be validated in accordance with ER 1110-1-263, and will be required to successfully analyze performance audit samples in addition to an on-site inspection in order to become validated for this work. Validation requires approximately six (6) weeks to complete.

5.2 Analytical Methods and Procedures: Analyze for the parameters listed below according to the methods listed. Other EPA approved methodologies for the determination of these constituents will also be considered. Analytical results

shall state the method detection limits and if these limits cannot be achieved, then a nonconformance report shall be attached to the analysis.

Parameter	Technique[2]	Extraction/Analysis Methods[1] Soil/Seds	Water[3]	Fuel[5]
Lead DA	3050/7420	3005/7420		
	GF	3050/7421	3020/7421	
	ICP	3050/6010	3005/6010	
Lead(E.P. Tox.)	Extraction Procedure	1310/7420	-	
		1310/7421	-	
Volatile Organics	GC/MS	5030[3]/8020	5030[3]/8020	
TRPH	IR	9071[4]/418.1	418.1	
TOX	Dohrmann DX-20	450.1	450.1	

NOTES:

1. All methods are from EPA/SW-846 (Reference 2.1.1) except for 418.1 which is from the EPA-600 series (Reference 2.1.2). Where more than one method is listed, Contractor may select one method at his/her discretion.

2. Abbreviations: DA - Direct Aspiration; GF - Graphite Furnace; ICP - Inductively Coupled Plasma; GC/MS - Gas Chromatography/Mass Spectroscopy; IR - Infrared Spectroscopy; GC - Gas Chromatography.

3. Direct injection may be used for high concentrations of contaminates in water. It is preferable to use Method 8240. If Method 8010, 8015, 8020, 601, or 602 is used, it is necessary to confirm results with a second GC column or a validation by GC/MS.

4. TRPH - Total Recoverable Petroleum Hydrocarbons. Follow extraction procedure through Step 7.11, and then dilute with Freon 113 to 100 ml.

5. The test parameters for the tank fluids shall be selected to satisfy all applicable Federal, State, and local regulations pertaining to the characterization, transportation, and disposal of petroleum products and potentially hazardous and toxic waste. The Contractor should note that the intended disposal facility might also have testing requirements which must be satisfied. Regardless of the State, local, or disposal facility testing requirements, all tank fluids will at a minimum be tested for flash point PCBs via SW846 Method 8080.

5.3 Data Reporting:

5.3.1 All analytical results shall be submitted to the Contracting Officer within 21 days of sample collection. Depending upon a variety of factors affecting the pace of work activities, this may result in a series of periodic (e.g., weekly) data submittals.

5.3.2 Data submittals shall include the results of all analyses, including duplicate sample analyses. Results should also include any unusual observations such as the presence of interferences, etc.

5.3.3 Copy of field log entries for each sampling, specified in paragraph 4.2 above, shall be submitted with the data submittals.

5.3.4 Minimum data reporting requirements are as follows:

5.3.4.1. Sample IDs - The Contractor shall prepare a tabular presentation which matches contract laboratory sample IDs to QA laboratory sample IDs. This table shall identify all Field Duplicates and Field Blanks (including rinsates and trip blanks) as such. This table shall also match all rinsates with their corresponding field samples as well as matching each trip blank with the samples that accompanied it during shipment.

5.3.4.2. Sample Receipt - The Contractor shall complete and report a "Cooler Receipt Form" for all shipments for purposes of noting problems in sample packaging, chain-of-custody, and sample preservation.

5.3.4.3. General Organic and Inorganic Reporting - For each analytical method run, the Contractor shall report all analytes for each sample as a detected concentration or as less than the specific limits of quantitation. Generally, all samples with out-of-control spike recoveries being attributed on matrix interferences shall be designated as such. All soil/sediment and solid waste samples shall be reported on a dry-weight basis with percent moisture also reported. The Contractor shall also report dilution factors for each sample as well as the date of extraction (if applicable) and date of analysis.

5.3.4.4. Internal Quality Control Reporting.

5.3.4.4.1. Laboratory Blanks (Method Blanks and Instrument Blanks) - All analytes shall be reported for each laboratory blank. All non-blank sample results shall be designated as corresponding to a particular laboratory blank in terms of analytical batch processing.

5.3.4.4.2. Surrogate Spike Samples shall be reported with all organic method reports where appropriate (i.e., when the method requires surrogate spikes). The report shall also specify the control limits for surrogate spike results as well as the spiking concentration. Any out-of-control recoveries shall result in the sample being rerun (both sets of data are to be reported) or data being flagged.

5.3.4.4.3. Matrix Spike Samples shall be reported for all organic and inorganic analyses. All general sample results shall be designated as corresponding to a particular matrix spike sample. The report shall indicate what field sample was spiked even if it was not a Corps of Engineers project sample. The report shall also specify the control limits for matrix spike results for each method for each matrix.

5.3.4.4.4. Laboratory Duplicates and/or Matrix Spike Duplicate Pairs - Relative Percent Difference shall be reported for all duplicate pairs as well as analyte/matrix specific control limits.

5.3.4.4.5. Laboratory Control Standards (LCS) - When run for internal quality control, Laboratory Control Standards results shall be reported with the corresponding field sample data. Control limits for LCS shall also be specified.

5.3.4.5. Field Duplicates and Field Blanks - These samples shall be identified as such by the Contractor and reported as any other field sample. Relative Percent Differences shall be reported for all field duplicate pairs.

- - o 0 o - -

UST ABATEMENT
DOCUMENT

Destroyed 8-2-91

Quit Claim Deed for
Underground Petroleum Storage Tanks

KNOW ALL MEN BY THESE PRESENTS:

That CORP. OF EMGINEERS, a _____ having an office at FORT WALTERS A F B, MINERAL WELLS, TX (hereinafter called " Transferor"), and LA-TEX SALVAGE CORP a TEXAS CORPORATION (hereinafter called " Transferee"), agree as follows:

Transferor hereby sells, assigns and quit claims to Transferee, his (its) heirs, successors and assigns, all of the right, title and interest of Transferor in and to the following described property AS IS, WITHOUT ANY WARRANTY OF MERCHANTABILITY OR WARRANTY OF ANY KIND:

2-12,000 GAL UST #578W + #578E

578W - Diesel Fuel "Not Vapor Free"

578E Leaded Gas "Not Vapor Free"

TO HAVE AND TO HOLD said property unto Transferee, his (its) heirs, successors and assigns forever.

The property conveyed hereunder is presently located on the premises at

XXXX FORT WALTERS A F B, MINERAL WELLS

In consideration of said sale, Transferee agrees to defend, indemnify and hold Transgeror, and Transferor's parent, subsidiaries and affiliates, harmless against all claims, losses and liability of every kind arising from the date hereof and arising from or related to the existence, removal, location, use of condition of said property.

Transferee further acknowledges that property is transferred for destruction purposed only and that all local, state and federal laws, codes and guidelines will be followed for its safe destruction. Transferee further recognizes that said equipment may contain harmful and explosive fumes and that extreme caution should be used when disposing of said equipment.

This instrument contains the entire agreement between the parties covering the subject matter.

Executed and delivered this 31 day of JULY, 1991.

ATTEST:
By Virgil Beise

By Michael G. Lee
As Its authorized representative
(Transferor)

LA-TEX SALVAGE CORP.

ATTEST:
By Sandra J. Duewall

By Jerry O. Thomas, (By SJD)
As Its PRESIDENT
(Transferee)

0189

LA-TEX
SALVAGE CORP.

CERTIFICATE OF TANK ABATEMENT

DATE ISSUED: AUGUST 21, 1991

THIS IS TO CERTIFY THAT THE TANKS DESCRIBED BELOW HAVE BEEN PROPERLY PURGED AND DESTROYED AND ARE NOW IN THE FORM OF SCRAP METAL.

PREVIOUS OWNER: CORP OF ENGINEERS
FORT WALTERS A F B
MINERAL WELLS, TX

TE OF DESTRUCTION: AUGUST 2, 1991

DESCRIPTION OF TANK: 2 - 12,000 GAL UST SITE# 578 W & 578 E

LOCATION OF DESTRUCTION: 505 N. Houston St., Ft. Worth TX 76106

WE CERTIFY THAT THE ABOVE NAMED TANKS HAVE BEEN DESTROYED ACCORDING TO LOCAL, STATE AND FEDERAL LAWS, CODES AND GUIDELINES.

Jerry O. Thomas

JERRY O. THOMAS, PRESIDENT

817-332-3371
817-336-0949

Mail: P.O. Box 9667
Fort Worth, TX 76147

ON SITE WRECK OUTS
TANK ABATEMENT • NON-FERROUS • SCRAP METALS

MANIFEST DOCUMENT

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 34

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers

4. Generator's Phone ( )

Site 578

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers | Signature: [signature] | Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc. | Signature: [signature] #20 | Month 10 Day [illegible] Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: [illegible] | Signature: [signature] | Month 10 Day 23 Year 91

GENERATOR

TRANSPORTER

FACI

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 35

3. Generator's Name and Mailing Address
US ARMY CORPS of ENGINEERS

SITE 578

4. Generator's Phone ( ) FT WOLTERS

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS MUN. LAND Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. CONT. Soil			11 YDS	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
US. ARMY CORPS of ENGINEERS	[signature]	10	23	91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
J. P. ESQUIVEL, Jr.	[signature]	10	23	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[signature]	[signature] 6104WL	10	23	91

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS LAND Fill

Printed/Typed Name	Signature	Month	Day	Year
[signature]	[signature]	10	23	91

GENERATOR

TRANSPORTER

FACI

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 36

3. Generator's Name and Mailing Address

U. S. army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers — Signature — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc. — Signature — Month / Day / Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature 610-412 — Month / Day / Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name — Signature — Month / Day / Year

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 37

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum products contaminated soil			11	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers

Signature:

Month Day Year: 10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.

Signature: #20 610-412

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: Willie Gonzalez

Signature:

Month Day Year: 10 22 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 38

3. Generator's Name and Mailing Address
U. S. Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Contaminated Soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Corps of Engineers
Signature: [signature]
Month Day Year: 10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.
Signature: [signature] #20 610 4[illegible]
Month Day Year: 10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Mineral Wells Land Fill
Willie Sanchez
Signature: [signature]
Month Day Year: 10 23 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-bitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 39

3. Generator's Name and Mailing Address
U. S. ~~XX~~ Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers | Signature: Joseph H. McK | Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc. | Signature: [illegible] #70 610-[illegible] | Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: LUPE GONZALEZ | Signature: [illegible] | Month 10 Day 23 Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Document No.
2. Page 1 of 40

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.
6. US EPA ID Number
TXD049337462

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers
Signature: Joseph H Mal
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.
Signature: Juan Esquivel #20 610-102
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month 10 Day 23 Year 91

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Mineral Wells Land Fill
LUPE GONZALEZ
Signature: Lupe Gonzalez
Month 10 Day 23 Year 91

GENERATOR — TRANSPORTER — FACILITY

TRANSPORTER #1

12-BLS-C5 Rev. 11/89

Please print or type
(Form designed for use on elite 12-pitch typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 43

3. Generator's Name and Mailing Address
US ARMY CORPS of ENGINEERS

SITE 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS
LAND FILL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.			11 YDS	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
US ARMY CORPS of ENGINEERS	Joe McCoy / [illegible]	10	29	91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
J.P. ESQUIVEL, INC. HEMIL SANDERS	[illegible] #20 [illegible]	10	29	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS LAND FILL

Printed/Typed Name	Signature	Month	Day	Year
LUPE GONZALEZ	[illegible]	10	29	91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type — Form Designed for use on elite (12-pitch) typewriter

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 54

3. Generator's Name and Mailing Address
U.S. ARMY Corps of Engineers
FT WALTERS ARMY BASE

site 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. ESQUIVEL, INC.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS MUN. LAND FILL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Cont. Soil			11 yds	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U.S. ARMY Corp Engineers
Signature: x [signature]
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J P ESQUIVEL, INC.
Signature: x [signature]
Month Day Year: 10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature: x [signature]
Month Day Year: 10 23 91

19. Discrepancy Indication Space: [illegible]

10 23 91

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS MUNICIPAL LANDFILL

Printed/Typed Name: Guillermo Sanchez
Signature: [signature]
Month Day Year: 10 23 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 55

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U. S. Army Corps of Engineers

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 56

3. Generator's Name and Mailing Address
U. S. Armuy Corps of Engineers

Site 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. army Corps of Engineers | Signature: [illegible] | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc. | Signature: [illegible] | Month 10 | Day 23 | Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: [illegible] | Signature: [illegible] | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 57

3. Generator's Name and Mailing Address
U. S. corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product conta;minatd soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers | Signature | Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc. | Signature | Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Mineral Wells Land fill

Printed/Typed Name: Willie Sanchez | Signature | Month 10 Day 23 Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 58

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum products contasminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army corps of Engineers

Signature: [signature]

Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.

Signature: [signature]

Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Mineral Wells Land Fill

Printed/Typed Name: Willie Sanchez

Signature: [signature]

Month 10 Day 23 Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 59

3. Generator's Name and Mailing Address
U. S. army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers
Signature: [signature]
Month Day Year: 10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EVARISTO MORENO
J. P. esquivel, Inc.
Signature: [signature]
Month Day Year: 10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Mineral Wells Land Fill

Printed/Typed Name: [illegible]
Signature: [signature]
Month Day Year: 10 23 91

GENERATOR

TRANSPORTER

FACIL

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 60

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. esquivel, Inc.

6. US EPA ID Number
TX D046937462

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U. S. army Corps of Engineers
Signature: Joseph H. McEvoy
Month Day Year: 10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Luis Esquivel
J. P. Esquivel, Inc.
Signature: Evaristo Marino
Month Day Year: 10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells land Fill
Printed/Typed Name: E Gonzalez
Signature: [illegible]
Month Day Year: 10 23 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Document No.
2. Page 1 of 61

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers
Site # 578
4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, INc.
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers
Signature: Joseph H. McE
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.
Signature:
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month 10 Day 23 Year 91

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Mineral Wells Land Fill
Lupe Gonzalez
Signature: Lupe Gonzalez
Month 10 Day 23 Year 91

GENERATOR → TRANSPORTER → FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 62

3. Generator's Name and Mailing Address
U. S. ARMY CORPS of ENGINEERS

SITE 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS LAND FILL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. CONT. SOIL			11 yds	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: US ARMY CORPS of ENGINEERS — Signature — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. ESQUIVEL, INC. — Signature — Month / Day / Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

19. Discrepancy Indication Space
Willie Sands

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS LAND FILL

Printed/Typed Name: Willie Sands — Signature — Month / Day / Year

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 63

3. Generator's Name and Mailing Address

U.S. Army Corps of Engineers

4. Generator's Phone

Site 578

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U.S. army Corps of Engineers

Signature

Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J Jesus Moreno
J.P. Esquivel, Inc.

Signature

Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Mineral Wells Land Fill
LUPE GONZALEZ

Signature

Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 64

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site 578

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers

Signature: [signature]

Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. Jesus Moreno
J. P. Esquivel, Inc.

Signature: [signature]

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: Willie Sainora

Signature: [signature]

Month 10 Day 27 Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

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(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 65

3. Generator's Name and Mailing Address

U. S. army Coprs of Engineers

Site ~~MR~~ 578

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product contaminated soil			11. yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U. S. Army Corps of Engineers — Signature: Joseph H. McCoy — Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jesus Moreno, J. P. Esquivel, Inc. — Signature: Jesus Moreno — Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land fill

Printed/Typed Name: Willie Sanders — Signature: Sanders — Month 10 Day 23 Year 91

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 66

3. Generator's Name and Mailing Address
U. S. army corps Of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol
a. Petroleuym Products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Corps of Engineers
Signature: [signature]
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. Jesus Moreno
J. P. Esquivel, Inc.
Signature: J. Jesus Moreno
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land fill
Printed/Typed Name: Willie Sanchez
Signature: [signature]
Month 10 Day 23 Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 67

3. Generator's Name and Mailing Address
U. s. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Corps of Engineers
Signature: [signature]
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. Jesus Moreno
J. P. Esquivel, Inc.
Signature: [signature]
Month 10 Day [illegible] Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Mineral Wells Land Fill

Printed/Typed Name: LUPE GONZALEZ
Signature: [signature]
Month 10 Day 23 Year 91

GENERATOR
TRANSPORTER
FACILITY

12-BLS-C5 Rev. 11/89

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 68

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil ~~Petroleumxcontaminatedx~~			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Us. Army Corps of Engineers

Signature: [illegible]

Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.

Signature: [illegible]

Month 10 | Day 23 | Year 01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: Lupe Gonzalez

Signature: Lupe Gonzalez

Month 10 | Day 23 | Year 01

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #1

12-BLS-C5 Rev. 11/89

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.:
Manifest Document No.:
2. Page 1 of 69

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers
Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel, Inc.
6. US EPA ID Number: TXD.0.4.6.7.3.7.4.6.2

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Mineral Wells Land Fill
10. US EPA ID Number:

A. Transporter's Phone:
B. Transporter's Phone:
C. Facility's Phone:

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers
Signature: [signature]
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel, Inc.
Signature:
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month 10 Day 23 Year 91

19. Discrepancy Indication Space
[illegible]

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Mineral Wells Land Fill
LUPE GONZALEZ
Signature: [signature]
Month 10 Day 23 Year 91

GENERATOR — TRANSPORTER — FACILITY

TRANSPORTER #1

12-BLS-C5 Rev. 11/8

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 81

3. Generator's Name and Mailing Address
U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number
TXD041337412

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U. S. Army Corps of Engineers
Signature: Joel H. McCoy
Month 10 Day 23 Year 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RUBEN BENN J. P. Esquivel, Inc.
Signature: Ruben Benn
Month 10 Day 23 Year 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month 10 Day 23 Year 9

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: LUPE GONZALEZ
Signature: Lupe Gonzalez
Month 10 Day 23 Year 91

12-BLS-C5 Rev. 11/8

TRANSPORTER

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 82

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site # (578)

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum product contaminated soil			11yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers

Signature: Joseph H. McCoy

Month Day Year: 10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ruben Benn J. P. Esquivel, Inc.

Signature: Ruben Benn

Month Day Year: 10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: Lupe Gonzalez

Signature: Lupe Gonzalez

Month Day Year: 10 23 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev 11/8

TRANSPORTER #1

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 83

3. Generator's Name and Mailing Address
U.S. ARMY CORPS of ENGINEERS

SITE 578

4. Generator's Phone ( ) FT. WOLTERS.

5. Transporter 1 Company Name
J.P. ESQUIVEL, INC.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS LANDFILL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. PETROLEUM CONTAMINATED Soil			11 YDS	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U.S. ARMY CORPS of ENGINEERS
Signature: [signature]
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RUBEN BENNA
J.P. ESQUIVEL, INC.
Signature: [signature]
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS LANDFILL

Printed/Typed Name: LUPE GONZALEZ
Signature: [signature]
Month Day Year 10 23 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 84

3. Generator's Name and Mailing Address

U. s. Army Corps of Engineers

Site #578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: XXXXXXXXX U.S. Corps of Engineers

Signature: for R. H. McC

Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ruben Benn J. P. Esquivel, Inc.

Signature: Ruben Benn

Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: Willie Sanchez

Signature: Sanchez

Month 10 Day 23 Year 91

GENERATOR → TRANSPORTER → FACIL

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TRANSPORTER #1

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 85

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

SITE 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U. S. Army Corps of Engineers — Signature — Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ruben Benn — J. P. Esquivel, Inc. — Signature — Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name — Signature — Month Day Year

GENERATOR

TRANSPORTER

FACILITY

12-HLS-C5 Rev. 11/89

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 86

3. Generator's Name and Mailing Address

U. S. army Corps of Engineers

Site 578

4. Generator's Phone ( )

5. Transporter 1 Company Name

J. P. Esquivel, Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name	Signature	Month Day Year
U. S. Army Corps of Engineers	Joseph H. McKay	10 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Ruben Benn J. P. Esquivel, Inc.	Ruben Benn	10 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name	Signature	Month Day Year
Lupe Gonzalez	Lupe Gonzalez	10 23 91

GENERATOR

TRANSPORTER

FACILITY

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TRANSPORTER #1

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 87

3. Generator's Name and Mailing Address

U. S. Army Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name: J. P. Esquivel

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Products contaminated soil			11 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: U. S. Army Corps of Engineers | Signature: [signature] | Month 10 | Day 22 | Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ruben Bonn. J. P. Esquivel, Inc. | Signature: Ruben Bonn | Month 10 | Day 23 | Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill

Printed/Typed Name: LUPE GONZALEZ | Signature: Lupe Gonzalez | Month 10 | Day 23 | Year 91

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 11/89

TRANSPORTER #1

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 98

3. Generator's Name and Mailing Address
US Army C.O.E.
FT WORTH

SITE 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J.P. ESQUIVEL, INC

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MINERAL WELLS MUN LAND FILL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. CONT. SOIL			11 YDS	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U.S. ARMY CORPS of ENGINEERS
Signature:
Month 10 Day 23 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J.P. ESQUIVEL, INC
Signature:
Month 10 Day 23 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: 693-86
Signature:
Month 10 Day 23 Year 91

19. Discrepancy Indication Space
Willie Sanchez
Sanchez
PLACE

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
MINERAL WELLS LAND FILL

Printed/Typed Name:
Signature:
Month Day Year

GENERATOR
TRANSPORTER
FACILITY

Willie Sanchez

TRANSPORTER #1

12-BLS-C5 Rev. 11/89

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 89

(578)

3. Generator's Name and Mailing Address
U.S. Army Corps of Eng

4. Generator's Phone ( )

5. Transporter 1 Company Name
J. P. Esquivel

6. US EPA ID Number
TXD046937462

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Product Contaminated Soil			11 yds	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U.S. Army Corps of Eng.
Signature: Joseph H. McCly
Month Day Year: 10 24 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J. P. Esquivel - Ruben Berrin
Signature: Ruben Berrin
Month Day Year: 10 24 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Mineral Wells Land Fill

Printed/Typed Name: Lupe Gonzalez
Signature: Lupe Gonzalez
Month Day Year: 10 24 91

GENERATOR

TRANSPORTER

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 128

3. Generator's Name and Mailing Address
U.S. Corps of Engineers

Site # 578

4. Generator's Phone ( )

5. Transporter 1 Company Name
J.P. Esquivel, Inc.

6. US EPA ID Number
TDX046937462

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Mineral Wells Land Fill

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum product contaminated soil			22 yds.	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: U.S. Corps of Engineers
Signature: [signature]
Month 10 Day 24 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: J.P. Esquivel, Inc.
Signature:
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible]
Signature: #17 [signature]
Month 10 Day 24 Year 91

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Mineral Wells Land Fill
Printed/Typed Name: William Sanchez
Signature: [signature]
Month 10 Day 24 Year 91

GENERATOR

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FACILITY

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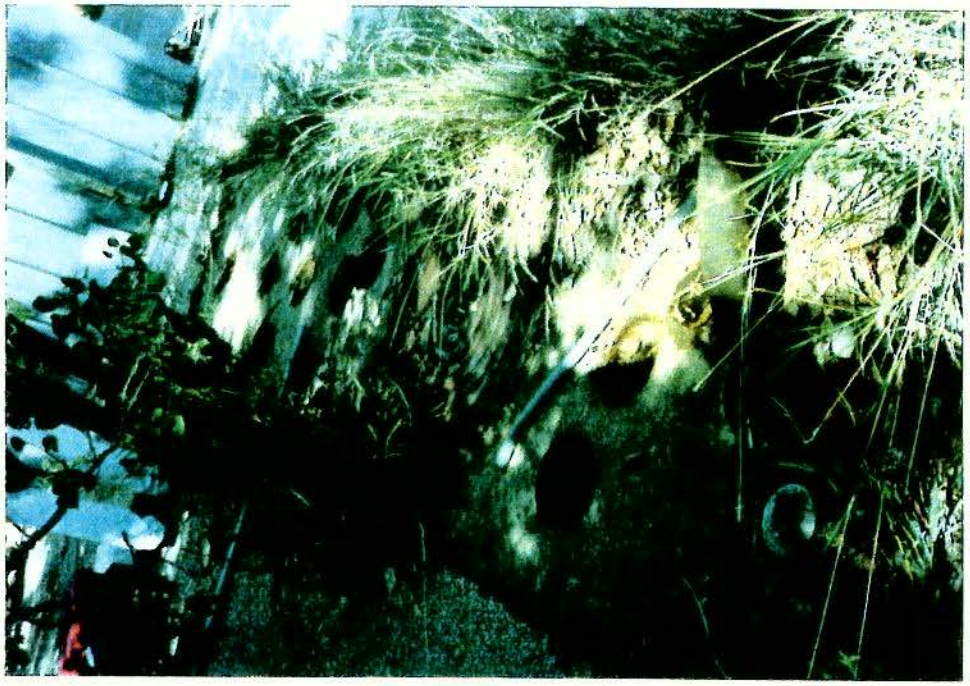
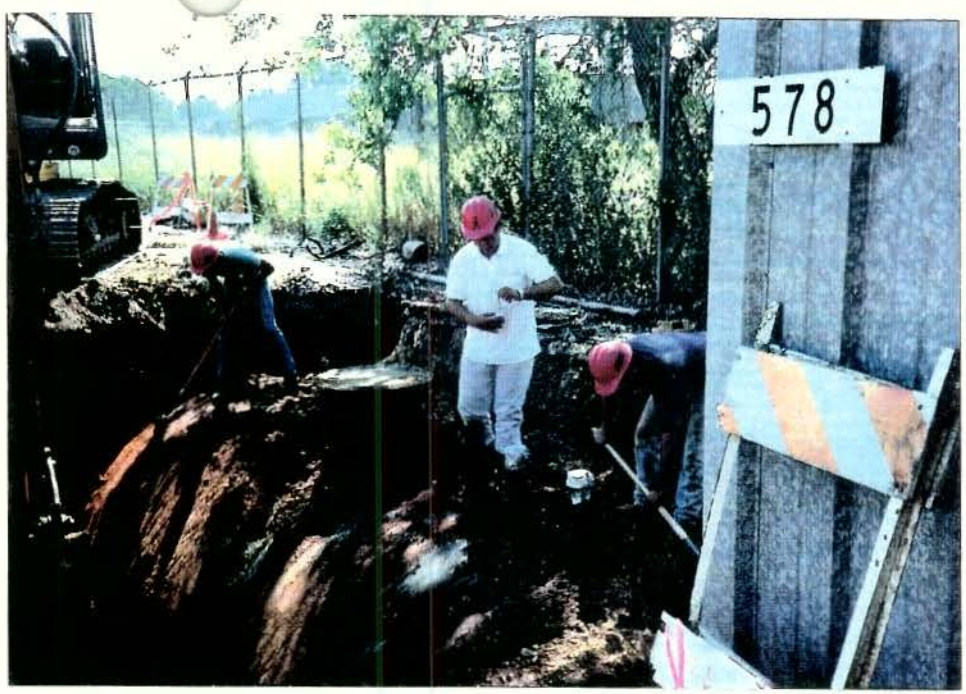
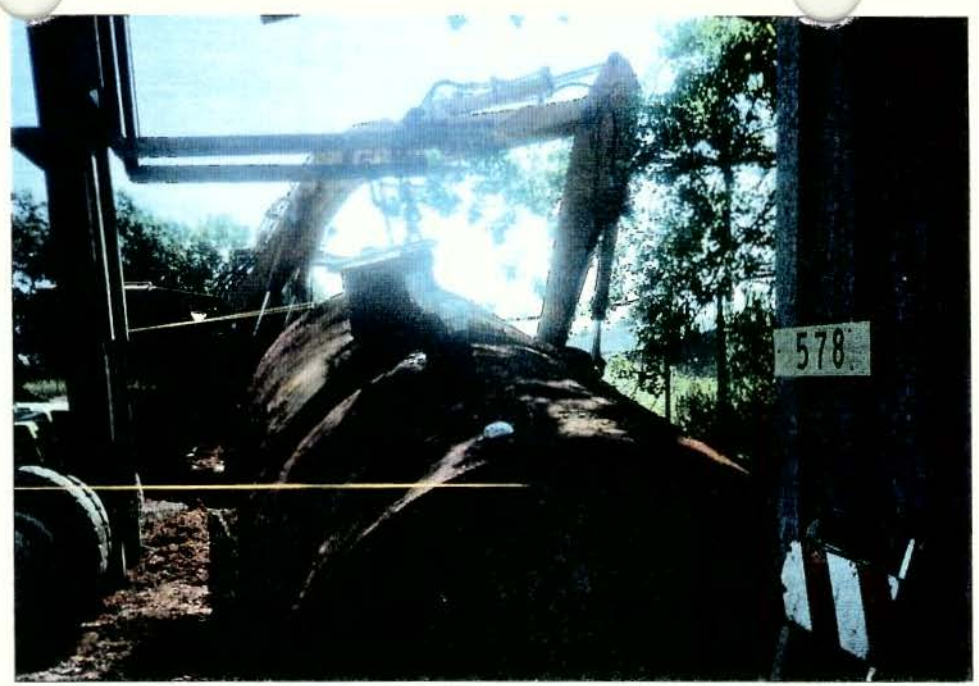
PHOTOGRAPHS

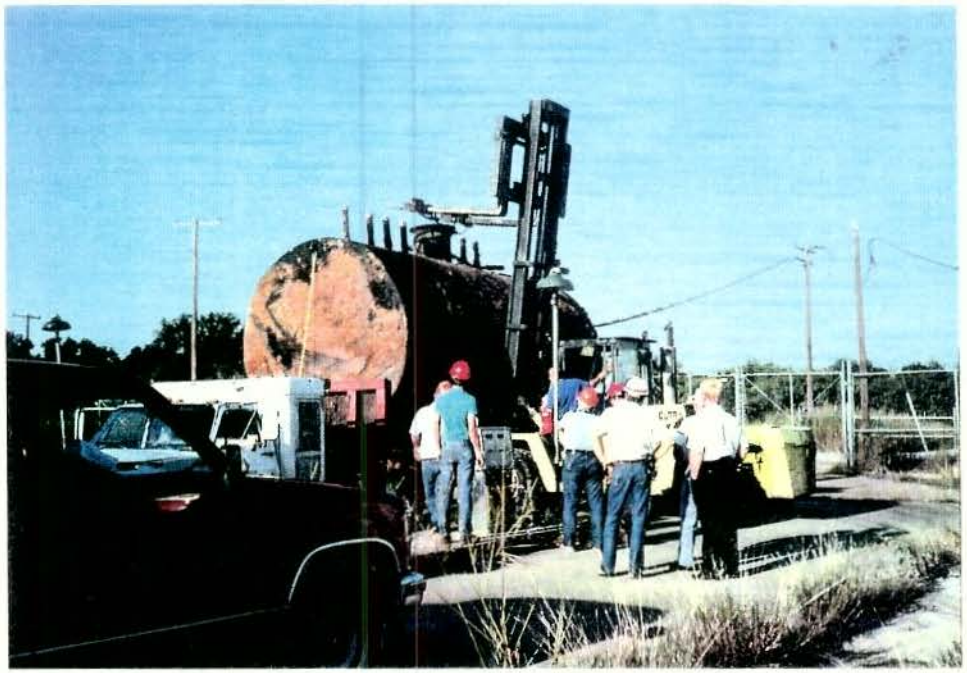


SITE: 578 OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

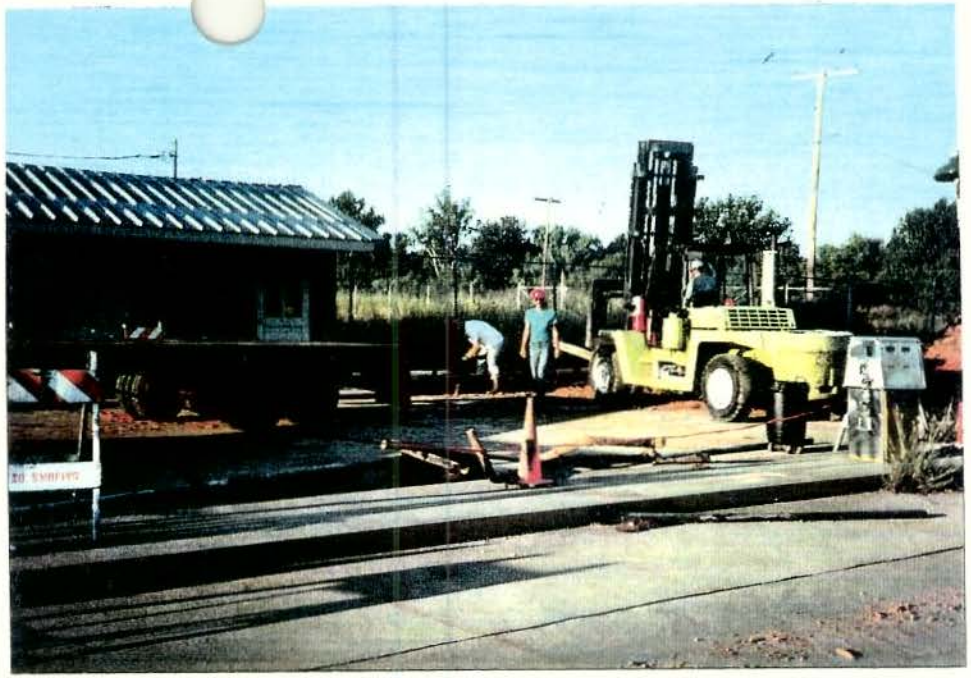
SITE: 578 OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

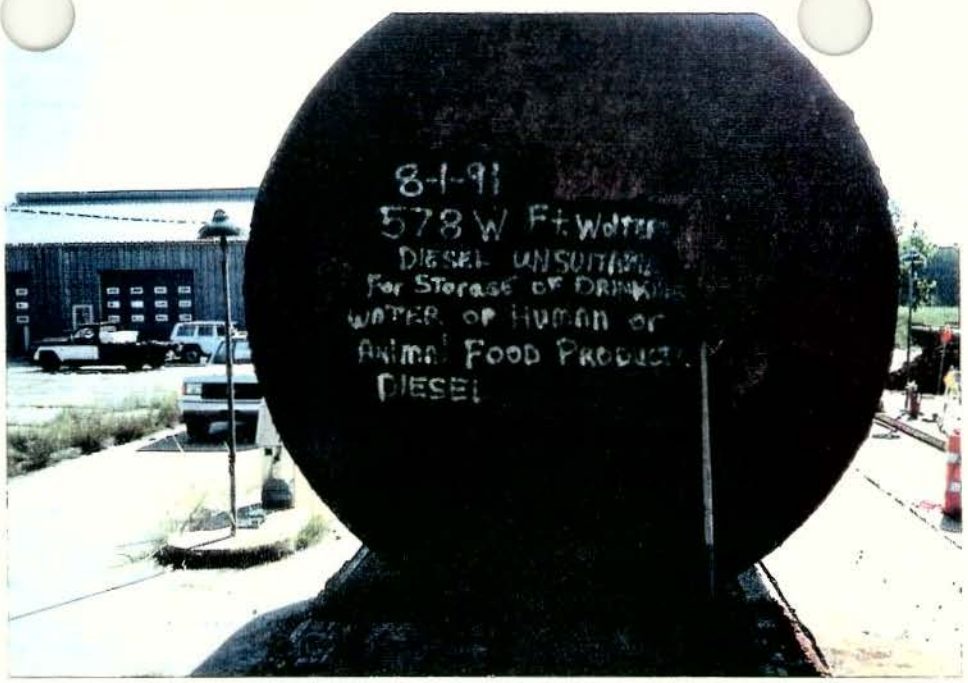


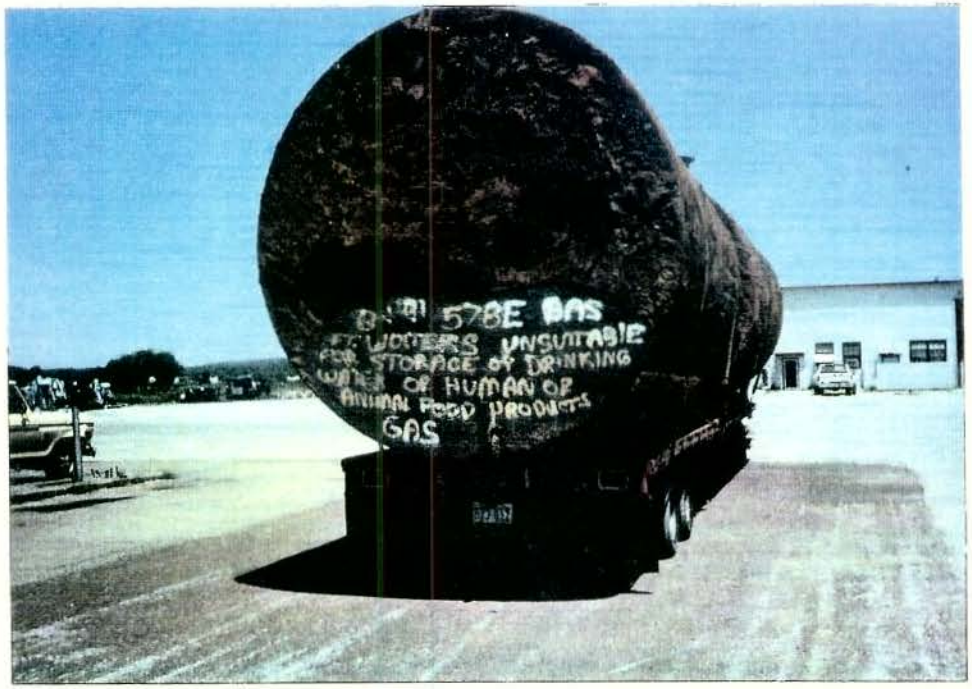




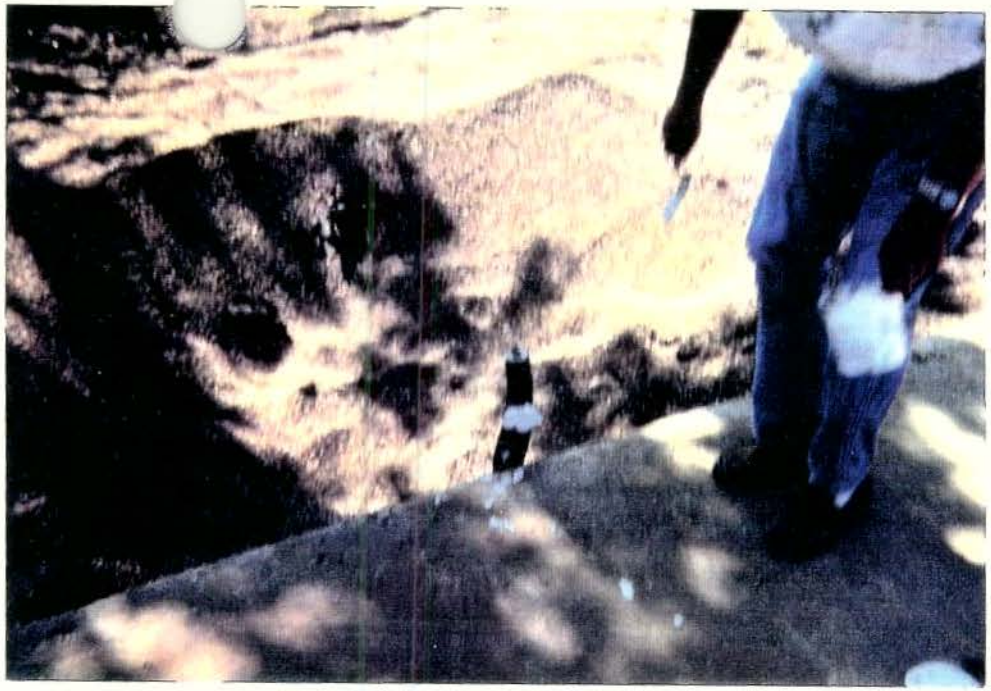
SITE: 578 OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

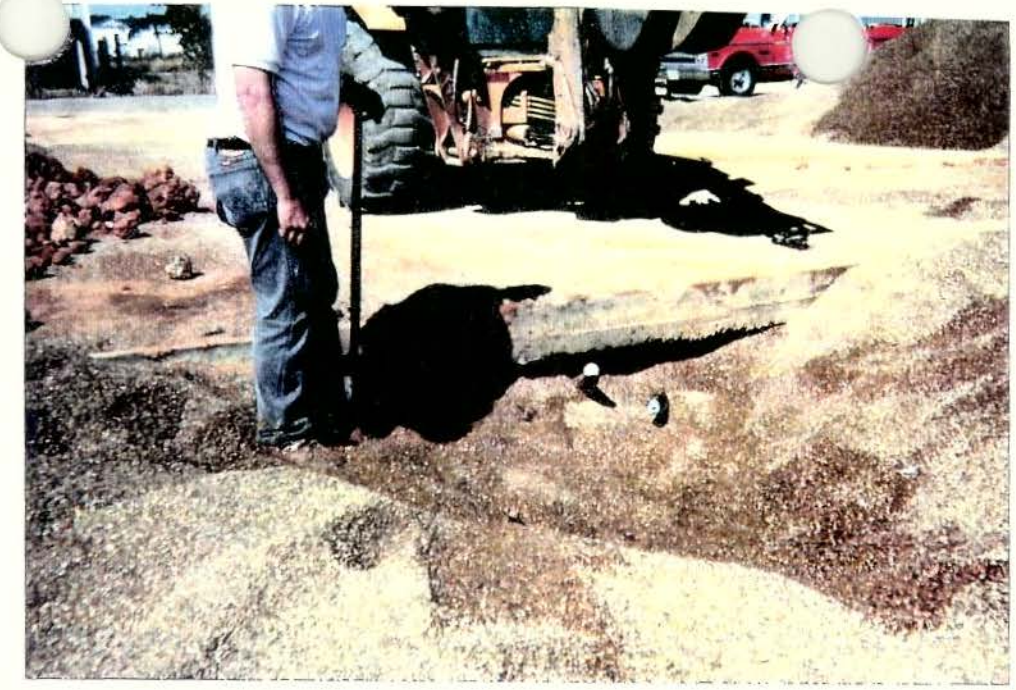


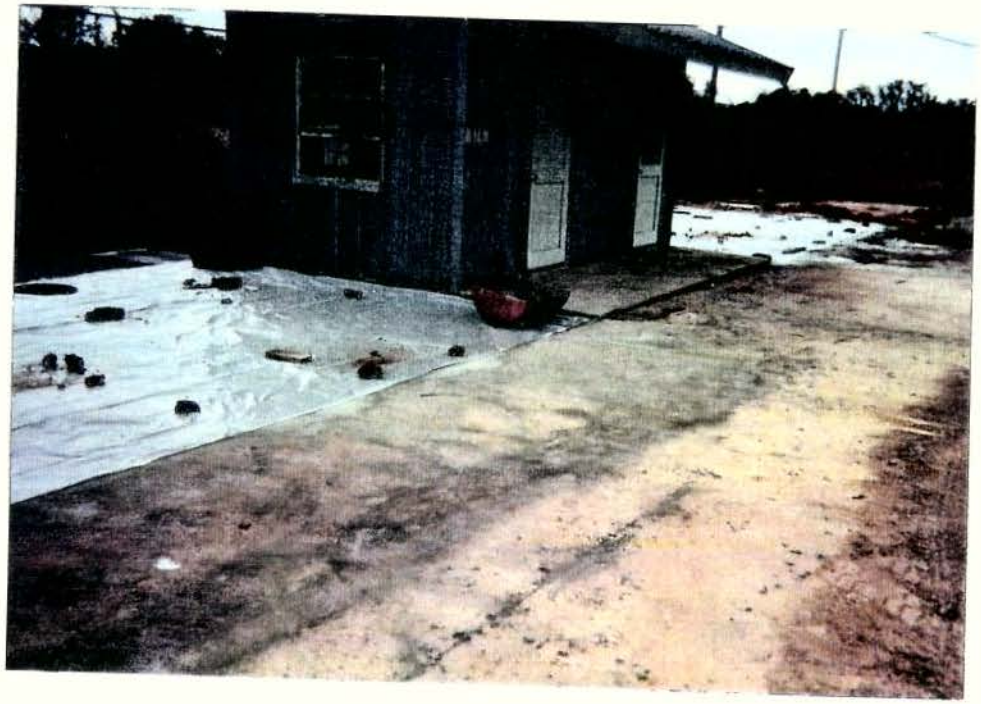




SITE: 578 OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

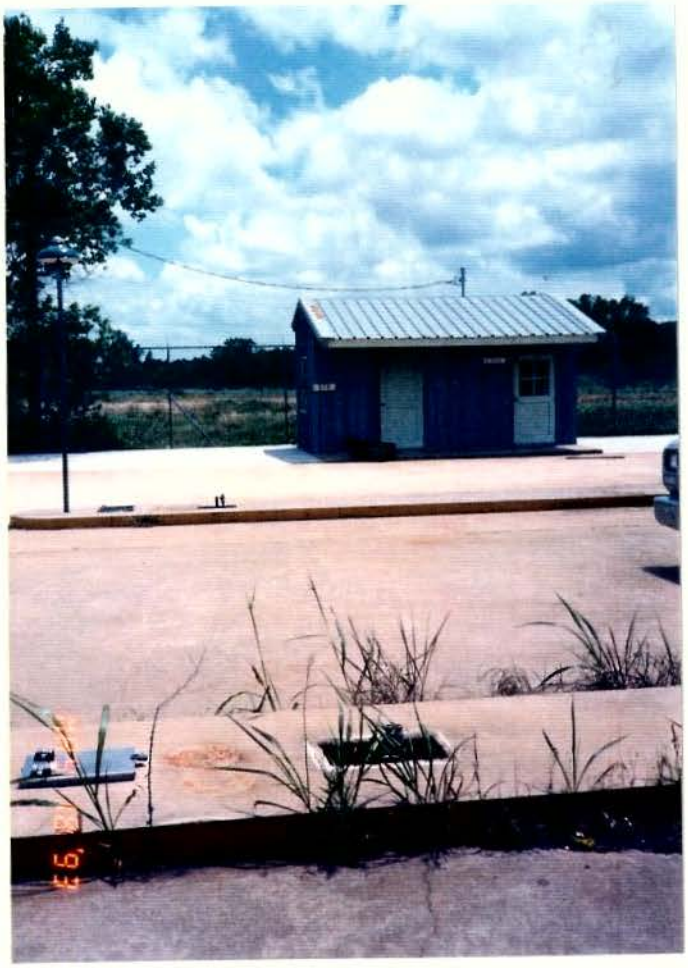






SITE: 578 OWNER: TEXAS DEPARTMENT OF CRIMINAL JUSTICE

Building 578 looking west. The southern most fuel dispenser island.



Building 578 looking south. Two fuel dispenser islands.

ENVIRONMENTAL GROUP*
* A Division of Perry Williams, Inc.

Office (806) 373-5820
Toll Free 1-800-445-1249
FAX (806) 371-0340

PETROLEUM PRODUCT PIPING REMOVAL AND SITE ASSESSMENT

Fort Wolters
Site No. 578
Mineral Wells, Texas

Zone 3
Contract No. DACA63-92-D-0046
Delivery Order No. 0004

Prepared for:

U.S. Army Corps of Engineers

Mr. Mark Simmons	Mr. Joseph M'Coy
Fort Worth, District	Fort Worth, Texas

Prepared by:

Sandra Jefferson
Perry Williams Inc. (RCAS00070)
WC Environmental Group

January 8, 1996

P.O. Box 30206 • Amarillo, Texas 79120

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AREA OFFICE

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Appendix H. Texas Natural Resources Conservation Commission
Appendix I. U.S. Army Corps Of Engineers
Appendix J. Miscellaneous Correspondence - N/A
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REPORT SUMMARY

In November 1993, Perry Williams Inc. (PWI) was given notice to proceed with Delivery Order No. 0004 under Contract No. DACA63-92-D-0046. Included in this Delivery Order is Site No. 578, which is located at the former Fort Wolters Military Reservation, Mineral Wells (Parker County), Texas. The scope of this report covers the removal of product piping, and the results of site assessment activities, and any remedial actions conducted in response to the release of petroleum hydrocarbons.

On February 8, 1994 PWI personnel arrived on-site and located two (2) fuel dispenser islands at Site No. 578. The concrete dispenser islands, and overlying concrete and soil, were removed to allow for access to the product piping. On February 15, 1994 the excavation and removal of approximately 190' of product flowlines, in addition to associated piping, was initiated. Soil samples were collected from the flowline excavations and the stockpiles generated during piping removal operations, and were submitted to the laboratory for analysis.

Analytical results indicated that contaminant concentrations were below the United States Army Corps of Engineers (USACE) contract action levels (TRPH 100 ppm and BTEX 30 ppm) in the samples collected from the flowline excavations. Results from the stockpile samples indicated contaminant concentrations above the USACE's contract levels were present in all three (3) stockpiles generated during piping removal operations.

The area was cleaned up and all concrete was removed from the site. The excavations were backfilled and compacted utilizing imported fill material, and the site was restored to its original condition with the pouring of concrete.

CHRONOLOGY OF EVENTS

8 February 1994	PWI personnel arrived on-site and located two (2) concrete fuel dispenser islands at Site No. 578.
	Broke out and removed both concrete fuel dispenser islands.
14 February, 1994	Began to saw cut concrete and remove the overlying soil to provide access to underlying piping.
15 February 1994	Removed concrete from the site.
16 February 1994	Completed the removal of concrete and soil overlying flowlines and associated piping.
17 February 1994	Removed all flowlines and associated piping at the site.
	Removed concrete and piping from the site.
23 February 1994	Collected soil samples from the flowline excavations and the stockpiles generated during flowline removal operations. Samples were submitted to the laboratory for analysis.
28 February 1994	Analytical results of the samples collected from the flowline excavations exhibited contaminant concentrations below the USACE's contract action levels.
	Analytical results of the samples collected from the stockpiles generated during flowline removal operations exhibited TRPH concentrations above the USACE's contract actions level in all three (3) samples submitted.
16 March 1994	Flowline excavations were backfilled and compacted utilizing imported fill material. Began grading site to prepare for installation of concrete.
17 March 1994	Compaction tests were performed.
20 March 1994	Installed wire mesh to prepare for concrete.
28 March 1994	Poured approximately 8 1/2 yards of concrete at Site No. 578 to restore the site to its original condition.

30 March 1994	Collected soil samples from stockpile material placed in bio-remediation cell. Samples were submitted to the laboratory for analysis.
5 to 7 April 1994	Analytical results of the bio-cell material indicated contaminant concentrations within the landfill disposal guidelines in all but one (1) of the stockpiles generated during piping removal operations.
13 April 1994	Manifested and transported approximately 40 cubic yards of soil material off-site to the Westside Sanitary Landfill for final disposition.
	Collected a soil sample from the stockpile material still present in the bio-remediation cell. The sample was submitted to the laboratory for analysis.
18 to 20 April 1994	Analytical results of the stockpile material indicated that contaminant concentrations were within the landfill disposal guidelines.
28 June 1994	Manifested and transported the final approximately 20 cubic yards of soil material off-site to the Westside Sanitary Landfill for final disposition.

SITE CHARACTERIZATION AND FIELD INVESTIGATION

Site No. 578 is located at the former Fort Wolters Military Reservation, Mineral Wells, Texas. The site was situated off of Grant Road and south of Taylor Road (see Figure 1). The piping was used to transfer fuel from tanks to the pump islands. The system consisted of approximately 190' of product piping, in addition to associated piping, and two fuel dispenser islands associated with underground storage tanks previously removed.

On February 8, 1994 PWI personnel arrived on site and located two (2) fuel dispenser islands. The concrete dispenser islands were broken out and removed from the site. Soil beneath the north pump island was diesel soaked. The overlying concrete and soil were removed to provide access to the piping for removal. Approximately 190' of flowline, in addition to associated piping, were excavated and removed. The piping was found to be in fair to poor condition. Samples were collected from the along the piping trenches at approximately 15' to 20' intervals. The samples were submitted to the laboratory for the analysis of TRPH, BTEX, and total Pb.

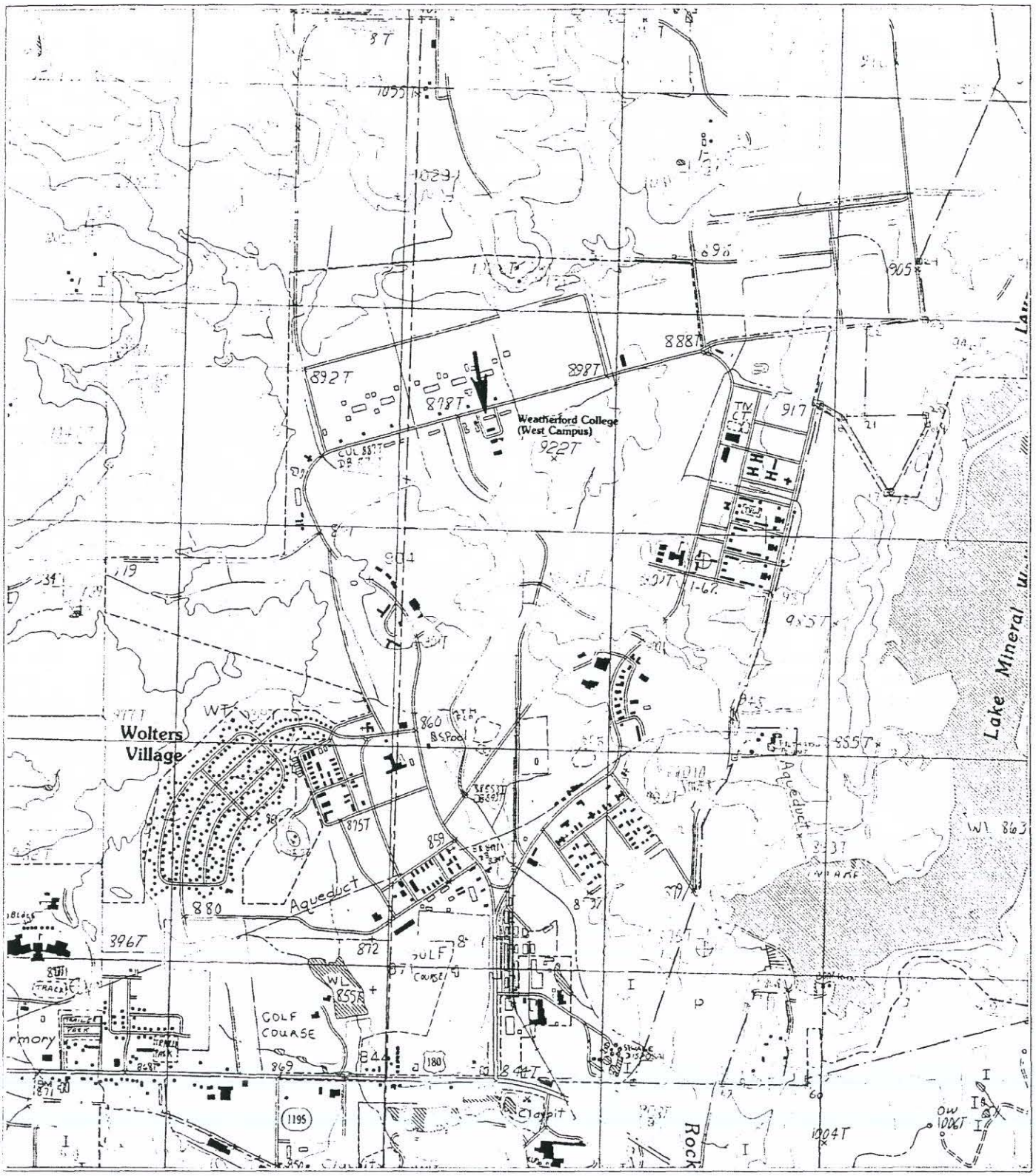
Analytical results of the excavation samples exhibited contaminant concentrations below the USACE's contract action levels. TRPH concentrations ranged from < 5 to 82 ppm, BTEX concentrations were below the method detection limits (MDL) used in analysis (< 0.6 ppm), and total Pb ranged from < 5 to 8.7 ppm.

The area was then backfilled and compacted utilizing imported fill material. The site was graded and returned to its original condition with the pouring of concrete.

Stockpile material generated during original piping removal operations was temporarily stockpiled on-site pending the receipt of analytical results. Soil material with contaminant

concentrations above the USACE's contract action levels was placed into a bio-remediation cell constructed on-site.

The soil material located in the bio-cell was periodically sampled to monitor the progress of remediation and to determine the reduction of contaminant concentrations to levels within the landfill disposal guidelines. Once analytical results indicated contaminant concentration within the disposal guidelines the material was manifested and transported to the Westside Sanitary Landfill in Aledo, Texas, for final disposition.



PORTION OF MINERAL WELLS EAST, TEXAS QUADRANGLE 7.5 MINUTE TOPOGRAPHIC MAP PHOTOREVISED 1984	N FIGURE 1	WC ENVIRONMENTAL GROUP P.O. BOX 30206, AMARILLO, TX. 79120 FORT WOLTERS SITE NO. 578 MINERALS WELLS (PARKER COUNTY), TEXAS

REGIONAL GEOLOGY AND HYDROGEOLOGY

Stratigraphy

The geologic units which outcrop in the North Central Texas area are the result of marine, fluvial, and deltaic depositional environments during the Pennsylvanian and Permian of the late Paleozoic Era and the Cretaceous of the Mesozoic Era. These outcrops strike in a mostly north-south direction and progressively grade from the older units to the west, to younger units eastward (See Figure 2).

During the late Paleozoic a sea was present in the North Central Texas area. The resulting Pennsylvanian and Permian age strata were deposited by near shore marine and river delta depositional environments. Over time these units were re-worked by the fluctuating coastline. Near the end of the Paleozoic the sea retreated to the southwest.

During the early Mesozoic, deposition of Triassic and Jurassic age sediments was very limited in the state of Texas. The majority of the deposits of this age are found to outcrop in West Texas. No strata of this age are found to outcrop in the North Central Texas area.

The late Mesozoic was characterized by the advancement of seas from the southeast (Gulf coast) and resulted in massive deposition of associated marine strata including: limestones, marls, clays, and sandstones. Toward the end of the Cretaceous the sea retreated back to the southeast. These are the strata seen outcropping in the North Central Texas area today. These beds dip to the southeast allowing the erosional exposure of the older underlying strata westward.

Recent deposition in the North Central Texas area consists of Quaternary alluvium, windblown deposits, and other surficial deposits. The majority of these deposits are the result

of erosion and re-deposition of existing strata by streams and rivers creating channel fills and stream terrace deposits.

Hydrogeology

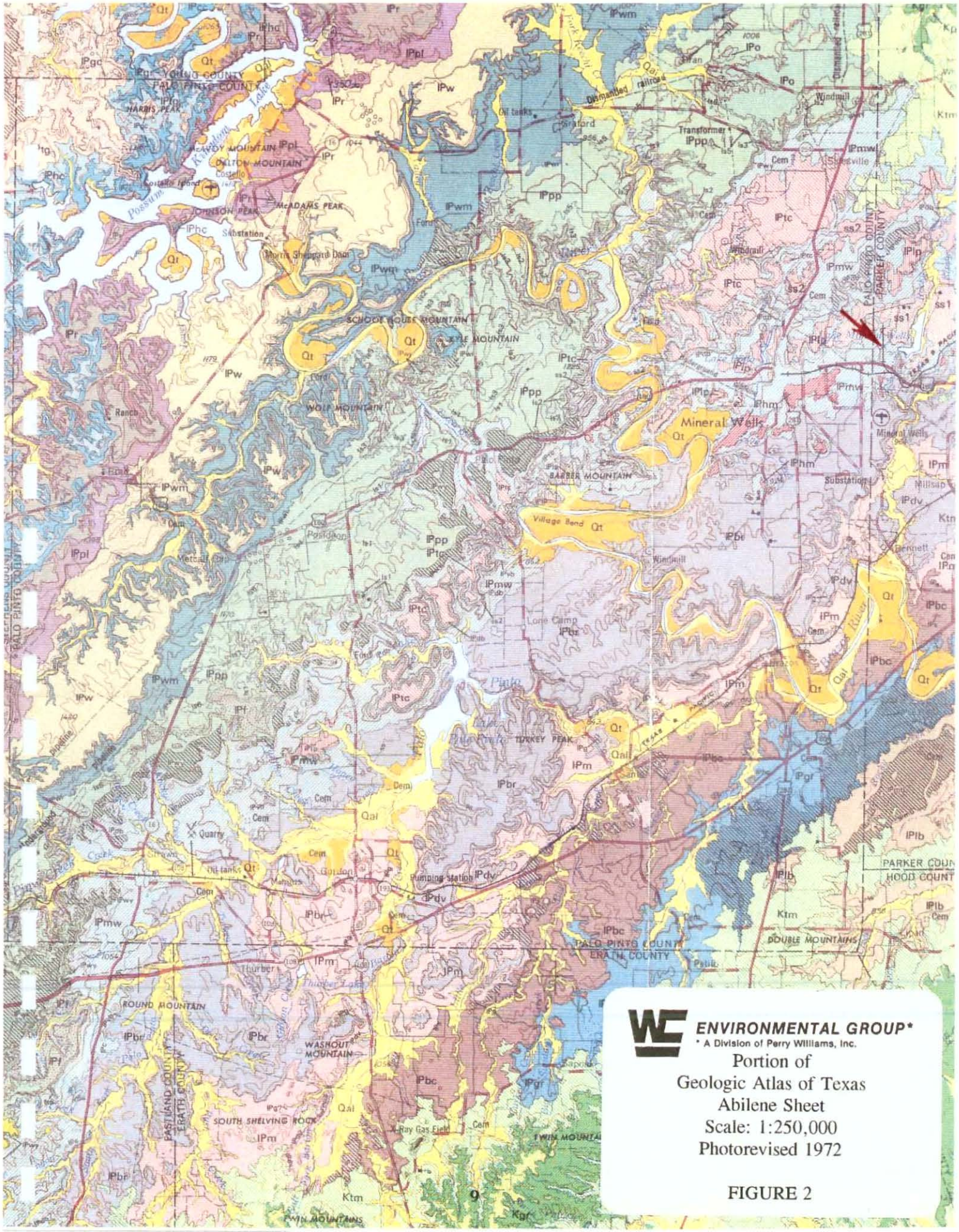
The major groundwater aquifer in the North Central Texas (Brazos River Basin) area is the Trinity Group of the lower Cretaceous. The Trinity outcrops to the east of the site in Parker County and dips to the east-southeast. This aquifer produces useable quality groundwater and it includes the Paluxy (Antlers), Glen Rose, and Travis Peak (Twin Mountains) Formations.[1] Total thickness of the aquifer ranges from approximately 230 to 1200 feet. Yields of large capacity wells average about 200 gallons per minute (gpm), although locally wells produce up to 1000 gpm. The groundwater is fresh through much of the aquifer, but quality deteriorates gradually downdip. Water in the aquifer generally contains less than 1000 mg/l total dissolved solids, but salinity increases downdip and toward the east.[2]

The minor aquifer in the North Central Texas area is the Woodbine of the upper Cretaceous. The Woodbine outcrops to the east of the site location and dips into the subsurface towards the east-southeast. Total thickness is less than 500 feet, with 40 to 50 percent net sand. Yields of high capacity wells average less than 200 gpm. Water in the aquifer is fresh to slightly saline, with quality deteriorating downdip and to the south where the sand facies of the Woodbine formation pinches out.[2]

References

1. Nordstrom, P. L., 1987, Ground-Water Resources of the Antlers and Travis Peak Formations in the Outcrop Area of North-Central Texas, Texas Water Development Board, Rpt. 298

2. Water For Texas, Technical Appendix 2, 1984, Texas Department of Water Resources, GP-4-1



ENVIRONMENTAL GROUP*
* A Division of Perry Williams, Inc.

Portion of
Geologic Atlas of Texas
Abilene Sheet
Scale: 1:250,000
Photorevised 1972

FIGURE 2

SITE GEOLOGY AND HYDROGEOLOGY

Site No. 578 is located off of Grant Road, south of Taylor Road, and north of Building No. 578, at the Fort Wolters Military Reservation (Parker County). The elevation of the site is approximately 880' above sea level and the topography is gently undulating to steep. Surface drainage appears to be toward the southeast into the upper reaches of Rock Creek (see Figure 3).

Geology

The site is located on the outcrop of the Mineral Wells Formation of the Pennsylvanian.[1] This Formation is composed of many units consisting of predominantly shale with some sandstone, conglomerate, and limestone. The units comprising the formation include: Turkey Creek Sandstone, sandstone (ss_2), Dog Bend Limestone, Lake Pinto Sandstone, Village Bend Limestone, Capps Limestone, sandstone (ss_1), and Hog Mountain Sandstone.[1] These strata are described as follows:

Turkey Creek Sandstone, coarse-grained, locally chert conglomerate, cross-bedded, massive, reddish brown; thickness 10-50 feet, feathers out abruptly southwestward.

Sandstone (ss_2), fine to coarse grained, thin bedded to massive, brown; thickness 10-12 feet, feathers out southwestward.

Dog Bend Limestone, one to four discontinuous limestone units separated by shale; limestone, fine grained, slightly argillaceous, light gray, individual units 1-3 feet thick, locally grades to sandstone in southern area.

Lake Pinto Sandstone, medium to fine grained, locally conglomeratic, thick bedded, brown, prominent NEAR MINERAL WELLS, less prominent southward; thickness 20-50 feet.

Village Bend Limestone, fine grained, locally sandy, thick bedded, yellow gray, weathers to small blocks, marine megafossils, consists of several laterally discontinuous limestone lentils,

locally where limestone is absent, calcareous sandstone occurs in this stratigraphic position; thickness 2-3 feet. Capps Limestone, fine to medium grained, wavy bedded, crinoid columnals, fusulinids locally abundant; thickness up to 8 feet, thickens southwestward, feathers out northeastward.

Sandstone (ssi), locally conglomeratic, crops out NEAR MINERAL WELLS; thickness about 30 feet.

Hog Mountain Sandstone, fine to medium grained, thick bedded to flaggy, brown, occurs NEAR MINERAL WELLS; thickness about 25 feet. Thickness of Mineral Wells Formation 275-700 feet, maximum thickness NEAR MINERAL WELLS.

The soils present at the site appear to be the Truce fine sandy loams.[2] This deep, well drained, gently sloping soil is on convex uplands. Areas are irregular in shape and range from 15 to 100 acres. Typically, the surface is slightly acid fine sandy loam about 7 inches thick. The upper 6 inches is brown, and the lower 1 inch is pink. From a depth of 7 to 48 inches is neutral clay that is yellowish red in the upper part, brown in the middle part, and brownish yellow in the lower part. The underlying layer from a depth 48 inches to 60 inches is moderately alkaline, pale yellow shaly clay interbedded with olive shaly clay and thin soft sandstone strata.

Permeability is slow, and available water capacity is low. The surface layer is very hard and massive when the soil is dry. The tendency of the surface to crust and the convex slopes cause a rapid runoff rate. The hazard of water erosion is severe. The dense, clayey lower layers restrict water intake, making this soil droughty. The hazard of soil blowing is moderate. The soil can be easily worked in a narrow range of moisture conditions. The root zone is deep, but plant roots are severely restricted by the clayey lower layers.

Included with this soil in some mapped areas are small areas of Bonti, Hassee, Owens and Thurber soils. Bonti soil are on ridgetops that have plane surfaces. Owens soils are on convex knolls. Hassee and Thurber soils are included in some areas. Also included in some areas is a soil similar to this Truce soil, except that the underlying shale is at a shallower depth. The included soils are less than 10 acres and together make up less than 20 percent of any mapped area.

Hydrogeology

The major groundwater aquifer in the North Central Texas area is the Trinity Group of the lower Cretaceous. The Trinity outcrops to the east of the site in Parker County and dips east-southeast. This aquifer produces useable quality groundwater and it includes the Paluxy (Antlers), Glen Rose, and Travis Peak (Twin Mountains) Formations.[3] Total thickness of the aquifer ranges from approximately 230 to 1200 feet. Yields of large capacity wells average about 200 gallons per minute (gpm), although locally wells produce up to 1000 gpm. The groundwater is fresh through much of the aquifer, but quality deteriorates gradually downdip.[4]

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No extensive groundwater investigation was conducted at the site, therefore no definitive information may be given as to the occurrence or depth to these major and minor aquifers.

Other more localized or perched groundwater zones may be present in the subsurface but were not directly encountered during site operations.

It should noted that the sample collected from the floor of the excavation (approximately 13′ below surface grade), subsequent to over-excavation of the loading rack location, was observed to exhibit a significantly higher moisture content relative to the samples collected from the walls. This could have been indicative of the capillary fringe of a shallow groundwater zone. No suffusion of groundwater into the excavation was reported.

References

1. Barnes, V. E., 1972, Abilene Sheet: The University of Texas at Austin, Bureau of Economic Geology, Geologic Atlas of Texas, scale: 1:250,000
2. Greenwade, J.M., Kelley, J.D., Hyde, H.W., 1973, Soil Conservation Service, United States Department of Agriculture, Soil Survey of Parker County, Texas.
3. Nordstrom, P. L., 1987, Ground-Water Resources of the Antlers and Travis Peak Formations in the Outcrop Area of North-Central Texas, Texas Water Development Board, Rpt. 298
4. Water For Texas, Technical Appendix 2, 1984, Texas Department of Water Resources, GP-4-1.

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Portion Of
Mineral Wells East, Texas
Quadrangle
7.5 Minute Topographic Map
Photorevised 1984

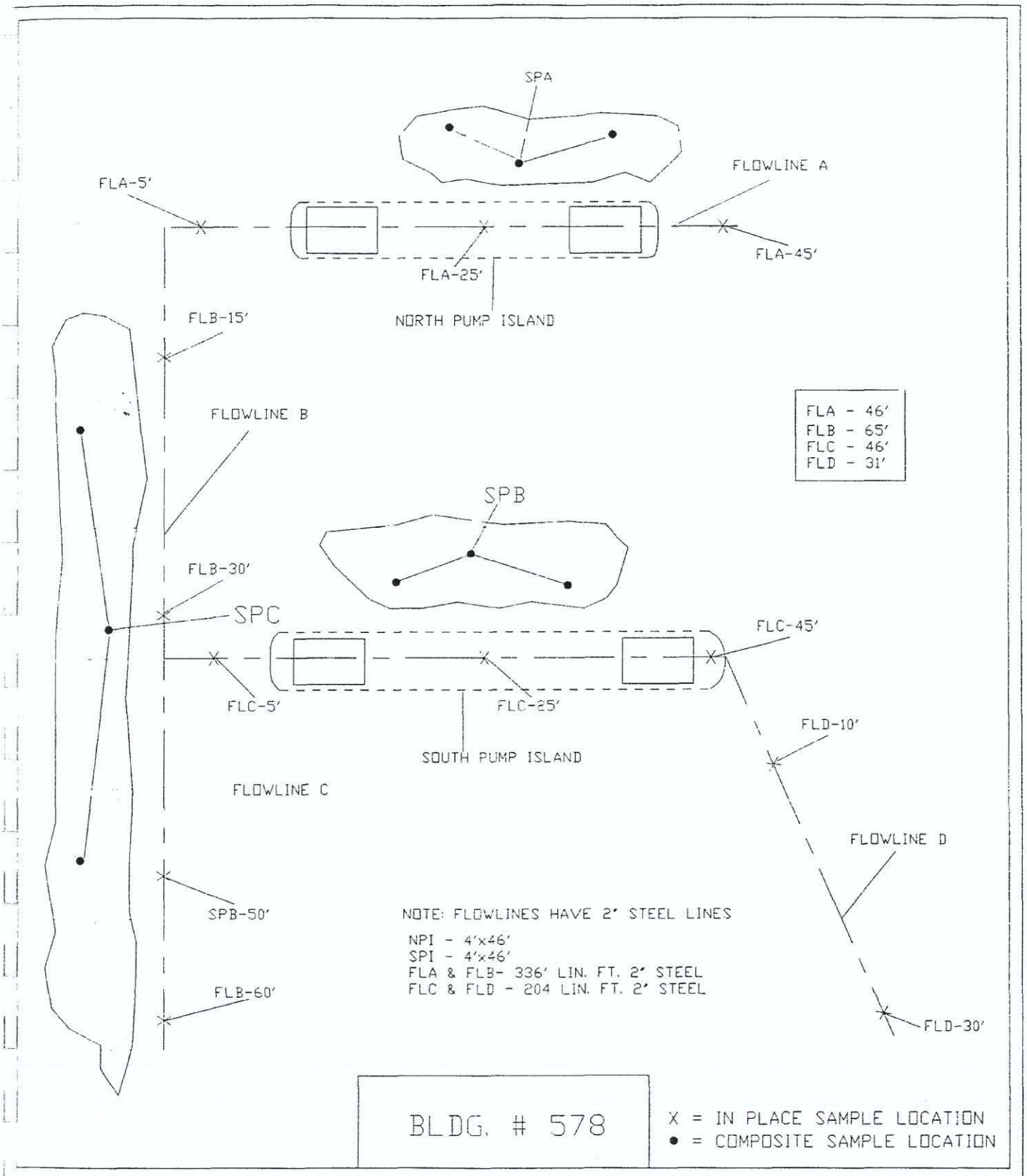
FIGURE 3

SITE SOIL ASSESSMENT AND REMEDIAL OPERATIONS

On February 15, 1994 approximately 190' of petroleum product piping, in addition to other associated piping, was excavated and removed at Site No. 578. Soil samples were collected from the trench line excavations at approximately 15' to 20' intervals (see Figure 4). The samples were submitted to the laboratory for the analysis of TRPH, BTEX, and total Pb.

Analytical results of the samples (FWT-578-FLA-5'...FWT-578-FLD-30')collected from the product piping trenches exhibited contaminant concentrations below the USACE's contract action levels. TRPH concentrations ranged from < 5 to 82 ppm, BTEX concentrations were below the MDL, and total Pb ranged from < 5 to 8.7 ppm (see Table 1).

No remedial actions were required at Site No. 578. The excavation was backfilled and compacted utilizing imported fill material, and new concrete was installed over the location to restore the site to its original condition.



PROJECT NAME:
FT. WOLTERS
SITE NO. 578
MINERAL WELLS, TEXAS

FIGURE 4

PERRY WILLIAMS, INC.
P. O. BOX 30206
AMARILLO, TEXAS 79120

NOT TO SCALE

Photo 1: Flowline excavations. Looking south.

Photo 2: Piping removed from flowline excavations.

Photo 3: Site following piping removal operations. Looking south.

Photo 4: Site prepared for installation of concrete. Note wire mesh in excavations.

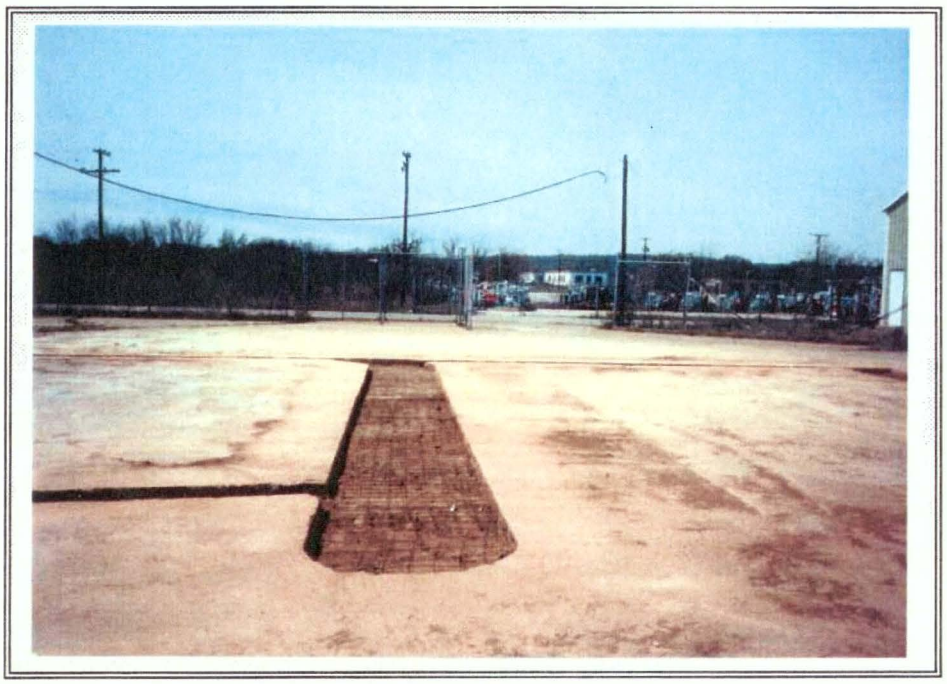
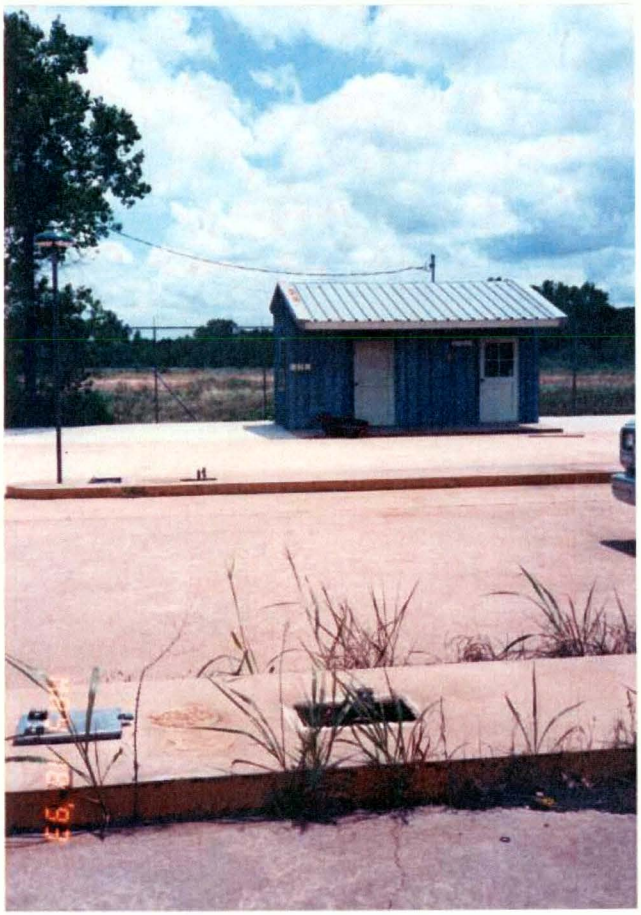


Photo 5: Site prepared for concrete. Note wire mesh.

B 541 ?

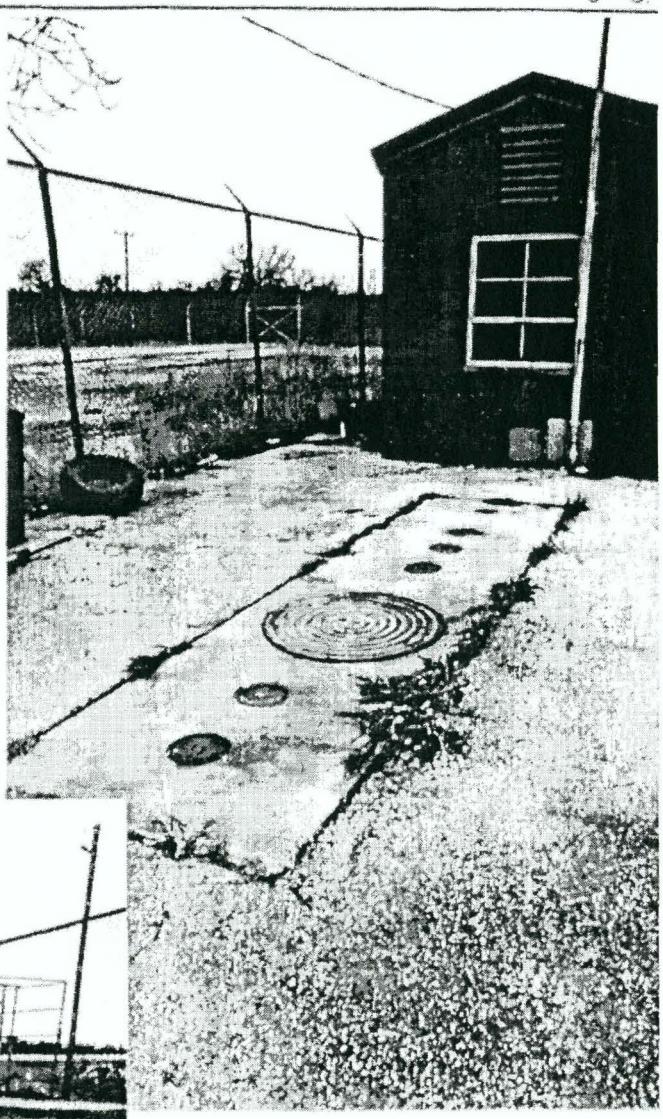
Photo 6: Bio-cell material. Facing west.

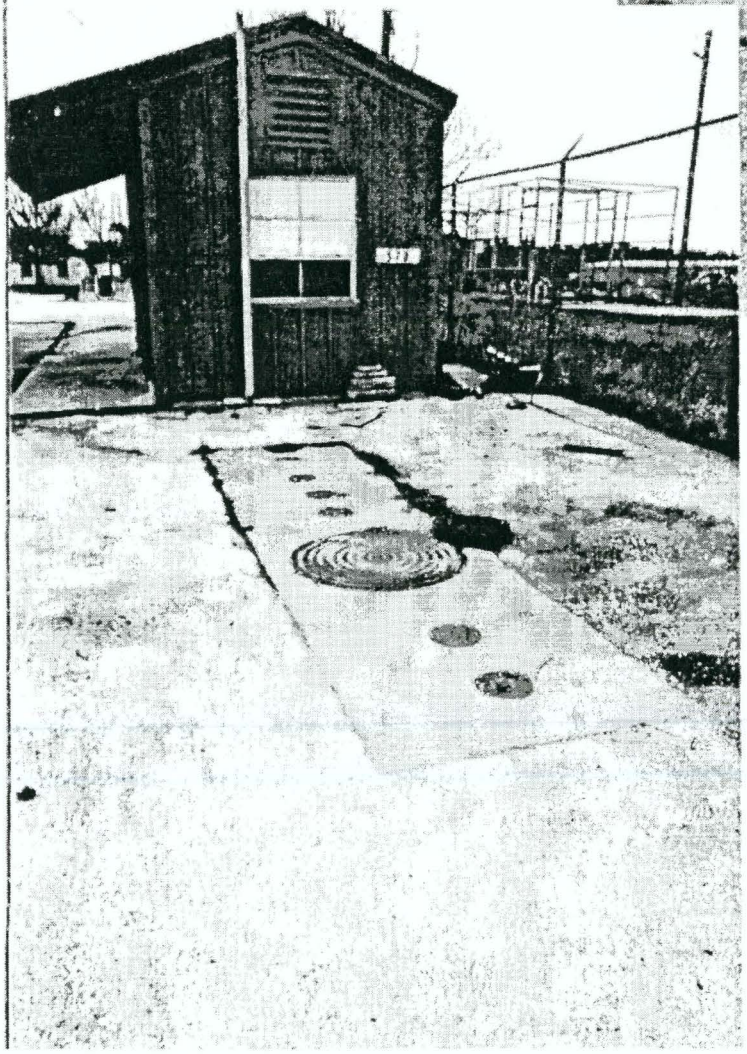
Photo 7: During flowline removal. Note the stockpiles.



Building 578 looking south. Two fuel dispenser islands.

No. 578 Looking west - as-builts not available.





No. 578 Looking east - as-built not available.

No. 578 Looking south - general view of fueling station for probable maintenance area.

Building 578 looking west. The southern most fuel dispenser island.

Niebuhr/rg/8-3223/1642

July 23, 1996

Environmental Design Branch
Engineering Division

Mr. Jim Balzaretti
Texas Department of Criminal Justice
Huntsville, Texas 77342-0099

Dear Mr. Balzaretti:

Enclosed, for your information and retention, is one copy of the closure report for the 1994 removal project of petroleum product piping at Site No. 578, former Fort Wolters, Mineral Wells, Texas. Also enclosed is one copy of the closure report for the 1991 underground storage tank removal project at the above site.

The Fort Worth District, Corps of Engineers, through the Defense Environmental Restoration Program at Formerly Used Defense Sites, removed approximately 190 feet of petroleum product pipelines and other associated piping from Site 578. The final excavation surfaces at the site were tested for petroleum and lead contamination and were found to be below Texas Natural Resource Conservation Commission action levels. Therefore, no further action will be required at the areas where the piping was removed.

A copy of the report covering the pipeline removal has been sent to Mr. Lonnie Gillie, Texas Natural Resource Conservation Commission, Region 4, Duncanville, Texas, and Mr. Chet Clarke, Texas Natural Resource Conservation Commission, Technical Services Section, State Headquarters, Austin, Texas. This report was submitted as a clean closure report. Also, the 1991 tank removal report was submitted to the Texas Natural Resource Conservation Commission for clean closure in June 1993.

Questions concerning these reports should be directed to Mr. Randy Niebuhr of our Environmental Design Branch, telephone 817/978-3223, extension 1642.

Sincerely,

R. Terry Coomes, P.E.
Chief, Engineering Division

Enclosures

CF: (wo/encl):
CESWF-PM-J (Scotto)

CESWF-ED-E SIMMONS

CESWF-ED COOMES

200-1f

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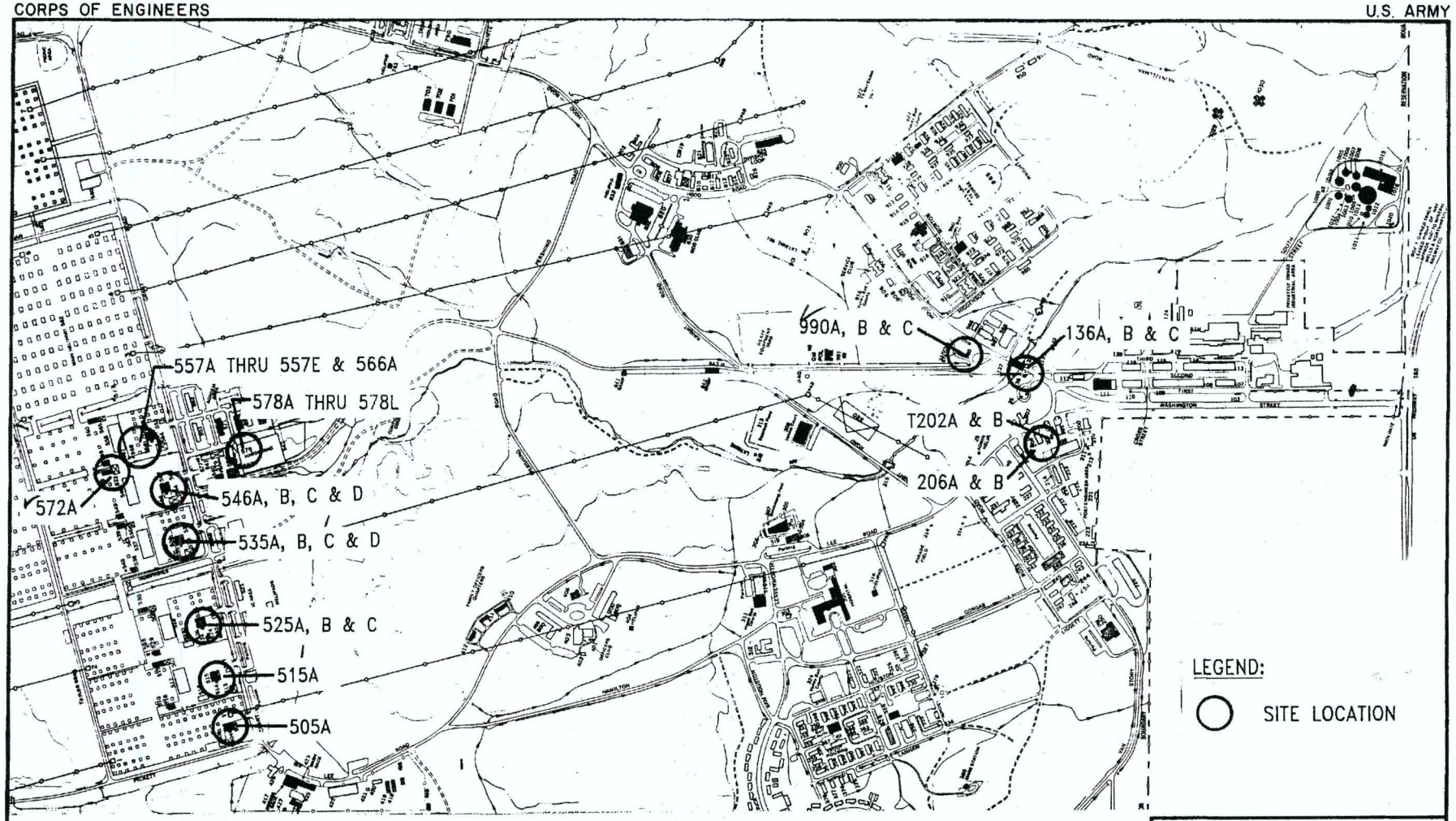
CORPS OF ENGINEERS

U.S. ARMY



FORT WOLTERS
MINERAL WELLS, TEXAS

REMOVAL OF UNDERGROUND STORAGE TANKS

SITE LOCATION MAP

200-1f

K06TX003408_01.04_0006_p

15.5 Interview Documentation

Mr. Lance Howerton (City of Mineral Wells City Manager): The Texas Department of Criminal Justice (TDCJ) is the current owner of the Subject Property; however, no one with that agency was identified for interview. Mr. Howerton served as representative of the City of Mineral Wells in regard to responding to questions about the Subject Property.

7.2 Interview with Key Site Manager

Mr. Lance Howerton: Mr. Howerton was interviewed at Mineral Wells City Hall regarding the Subject Property on September 21, 2010. Mr. Howerton has some knowledge of the Subject Property background, and was designated as being the most knowledgeable person available. Based on his familiarity with the Subject Property and the surrounding properties, Mr. Howerton meets the criteria under ASTM E 1527-05 as a "Key Site Manager."

Mr. Howerton stated that he has been knowledgeable of the Subject Property for a number of years. However, Mr. Howerton stated that the City does not have any documentation for the Subject Property. He indicated that the site had been owned by the General Services Department (GSA) and sold to Weatherford College in the 1970s. Weatherford College used portions of the Subject Property for classes, and the former motor pool area had been used to train students in engine repair. Weatherford Collge returned the Subject Property to the GSA, which then deeded it to the TDCJ in 1990. Mr. Howerton stated that the TDCJ never used the property, although it was deed restricted for detention use. Mr. Howerton stated that the TDCJ now wants to return the Subject Property to the GSA, but the GSA does not want the site prior to any environmental issues being addressed beforehand.

Mr. Howerton indicated that the Subject Property had been developed by the military when Fort Wolters was reactivated as a helicopter training site in the late 1950s. He was uncertain as to the exact construction dates of the onsite buildings, but knew that the Subject Property began operating as a motor pool in at least the early 1960s.

Mr. Howerton stated that he had no formal knowledge of environmental concerns onsite or in the area immediately surrounding the Subject Property; however, he had no details regarding storage practices or history of automotive or industrial batteries, pesticides, pits, ponds, waste lagoons, underground/aboveground storage tanks, vent pipes, fill pipes, access ways, sumps, or evidence of stained soil at the property. Aside from the deed restriction, Mr. Howerton stated that he did not know of previous or current governmental notices or administrative proceedings and has never been notified of violations of environmental laws or environmental regarding the Subject Property.

Mr. Howerton stated that he was not aware of any of the following: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Subject Property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at or in proximity to the Subject Property.

Interview with Ms. Andra Cantrell, V.P. of Finance with Weatherford College (817-598-6260): to inquire about the use of the Subject Property during the time it was occupied by a segment of the College's Mineral Wells Education Center. However, Ms. Cantrell had no personal knowledge of prior site usage, nor was she aware of where documentation from that period could be found. Ms. Cantrell stated that there were no personnel still at the College that had been associated with the Subject Property when the College owned it. She stated that the Subject Property had been turned back to the GSA in the mid-1980s.

Inquiry with the City of Mineral Wells (http://www.mineralwellstx.gov/) and review of the Parker County website (http://www.co.parker.tx.us/ips/cms) on October 4, 2010, indicated that the city and county health departments do not record pertinent information associated with impact to soil, surface water, or groundwater. Therefore, no information request was made to the city or county other than to the City fire department as discussed above.

Correspondence obtained from Oncor verifies that they are responsible for their electrical equipment and any cleanup due to spills or leaks from their equipment, should such be required.

Brent Noles
Oncor Environmental Services
254.631.8064

November 11, 2010

Ms. Sherri Godsey
Southeast corner of Grant Road @ Cross Post Road
Mineral Wells, Texas

Dear Ms. Godsey

Please be advised that Oncor classifies oil-filled electrical equipment in accordance with applicable federal regulations (40 CFR Part 761). Equipment manufactured prior to January 1, 1980, and is untested by an EPA approved method will be classified as PCB contaminated (50 – 499 ppm). Equipment manufactured after January 1, 1980, will be classified as Non-PCB (less than 50 ppm).

In the event of a spill or release of dielectric fluid or other substance, Oncor will meet or exceed all state and federal requirements in the areas of: response, notification, clean-up, disposal, and documentation of the event.

Oncor has and will comply with applicable laws and regulations regarding such equipment and events. If you are aware of any special or unique circumstance at a particular location, please notify Oncor.

If you desire that Oncor take any additional actions beyond applicable laws and regulations, please contact the company so that the details can be discussed which may include payment for the associated costs

Sincerely,

C. Brent Noles

Brent Noles
Oncor Environmental Services

15.6 Special Contractual Conditions between User and Environmental Professional

No Special Contractual Conditions exist between the User and the Environmental Professional.