

***FINAL***

**ENVIRONMENTAL CONDITION OF  
PROPERTY REPORT**

**MARSHALL  
U.S. ARMY RESERVE CENTER (TX053)  
1209 PINECREST DRIVE EAST  
MARSHALL, TEXAS 75670**

***Prepared For:***

**U.S. Army Corps of Engineers — Louisville District  
Engineering Division — Environmental Engineering Branch  
600 Dr. Martin Luther King, Jr. Place  
Louisville, Kentucky 40202-2232**

**February 28, 2007**

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## CERTIFICATION

All information/documentation provided accurately reflects the environmental condition of the property. This Environmental Condition of Property (ECP) Report is in general accordance with the U.S. Department of Defense (DoD) requirements for completion of an ECP Report.

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**JAMES WHEELER II**  
**Chief, Environmental Division**  
**90<sup>th</sup> Regional Readiness Command**

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**DATE**

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP Report.

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**LENARD GUNNELL, P.G.**  
**Project Geologist**  
**U.S. Army Corps of Engineers**

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**DATE**

## EXECUTIVE SUMMARY

The Terraine-EnSafe Joint Venture (TEJV), under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) Report for the Marshall U.S. Army Reserve (USAR) Center (Facility ID TX053), hereafter referred to as the "Site" or "USAR Center." The Site is located at 1209 Pinecrest Drive East in Marshall, Harrison County, Texas.

This ECP Report was conducted in conformance with primary Department of Defense (DoD) and Army guidance, the DoD's Base Redevelopment and Realignment Manual, DoD 4165.77-M, Army regulations and the American Society for Testing and Materials Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, as secondary guidance when it was not inconsistent with the primary guidance.

This ECP Report details the history of the property, including the USAR and any prior tenant uses of the Site and the resulting environmental condition of the property.

The USAR Center is on 3.78 acres of land with two permanent structures: a 4,472-square-foot Training Building and a 1,328-square-foot organizational maintenance shop (OMS). The site is currently occupied by Detachment 1, 952<sup>nd</sup> Engineering Company. The OMS is no longer operational and OMS operations are in the process of being transferred to the Red River Army Depot.

Based on a review of aerial photographs and U.S. Geological Survey topographical maps dating back to 1947, the Site was an undeveloped lot prior to the U.S. government's purchase in 1958. The two buildings on the Site were constructed in 1959.

Areas of potential environmental concern were reviewed and the TEJV found one significant concern relating to the environmental condition of the Site. On December 1, 2005, approximately 15 gallons of diesel fuel and hydraulic fluid were spilled in the military equipment parking area, on the north side of the driveway connecting the OMS to the vehicle wash rack, when a crane rolled over during loading/unloading activities. In response to the spill, fluids were drained from the overturned crane to stop the leak and stained soil was manually excavated.

In accordance with DoD policy defining the classifications (see S.W. Goodman Memorandum dated October 21, 1996), the Site has been classified as Category 2. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

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### List of Acronyms and Abbreviations

ACM	asbestos-containing material
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CESQG	conditionally exempt small-quantity generator
CFR	Code of Federal Regulations
CONEX	container express
CORRACT	Corrective Action
DoD	Department of Defense
EBS	Environmental Baseline Survey
ECCI	Environmental, Compliance & Construction, Inc.
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
HVAC	heating, ventilating, and air conditioning
IHW	Industrial and Hazardous Waste
IOP	Innocent Owner/Operator Program
kg	kilogram
LBP	lead-based paint
LPST	Leaking Petroleum Storage Tank
LQG	large-quantity generator
MEP	military equipment parking
NFRAP	No Further Remedial Action Planned
NOV	Notice of Violation
NPL	National Priorities List
NRCS	Natural Resources Conservation Service

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OMS	organizational maintenance shop
OWS	oil-water separator
PCB	polychlorinated biphenyl
pCi/L	picocuries per liter
PMT	pole-mounted transformer
POL	petroleum, oil, and lubricants
POV	privately owned vehicle
PST	Petroleum Storage Tank
PWS	Public Water Supply
RCRA	Resource Conservation and Recovery Act
RCRAInfo	RCRA Information
RQ	reportable quantity
RRC	Regional Readiness Command
RSC	Regional Support Command
SQG	small-quantity generator
SWEPCO	Southwestern Electric Power Company
TBA	Targeted Brownfields Assessment
TCEQ	Texas Commission on Environmental Quality
TEJV	Terraine-EnSafe Joint Venture
TSD	treatment, storage, and disposal
TSI	thermal system insulation
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAR	U.S. Army Reserve
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
VCP	Voluntary Cleanup Program
VWR	vehicle wash rack
WWTP	Waste Water Treatment Plant

## **1.0 INTRODUCTION**

The Terraine-EnSafe Joint Venture (TEJV), under contract to the U.S. Army Corps of Engineers (USACE) Louisville District, was authorized to prepare an Environmental Condition of Property (ECP) Report for the Marshall U.S. Army Reserve (USAR) Center (Facility ID TX053), in response to the Base Realignment and Closure Act (BRAC) 2005 legislation. The work was performed under Contract No. W912QR-04-D-0044, Delivery Order No. 0008. The facility located at 1209 Pinecrest Drive East in Marshall, Harrison County, Texas, is hereafter referred to as the "Site" or "USAR Center." In support of the ECP, a visual reconnaissance of the Site was conducted on July 24, 2006. The purpose of the reconnaissance was to visually obtain information indicating the likelihood of recognized environmental conditions in connection with the Site.

### **1.1 PURPOSE OF ENVIRONMENTAL CONDITION OF PROPERTY**

The Military Department with real property accountability shall assess, determine and document the environmental condition of all transferable property in an ECP Report. This ECP Report is based on readily available information. Pursuant to the Department of Defense's (DoD's) policy, set forth in the Base Redevelopment and Realignment Manual (DoD 4165.66-M, March 1, 2006) Section C8.3 (BRRM), the primary purposes of the ECP Report include the following:

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the property.
- Assist in community planning for the reuse of BRAC property.
- Assist Federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency's (USEPA) "All Appropriate Inquiry" regulations.
- Provide information about completed remedial and corrective actions at the property.
- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

The ECP Report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any

hazardous substance was stored, released or disposed of. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for one year or more — specifically, quantities exceeding 1,000 kilograms (kg) or the reportable quantity (RQ), whichever is greater, of the substances specified in 40 CFR 302.4 or one kg of acutely hazardous waste as defined in 40 CFR 261.30. A notice is also required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the RQ. Army Regulation 200-1 requires that the ECP Report address asbestos, lead-based paint (LBP), radon and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005) *Standard Practice for Conducting Environmental Baseline Surveys* as a guideline when not inconsistent with the BRRM, CERCLA § 120, Army regulations and other applicable Army guidance.

## **1.2 SCOPE OF SERVICES**

This ECP Report covers the 3.78-acre USAR Center at 1209 Pinecrest Drive East, in Marshall, Texas. The property is bounded by Marshall High School across Turtle Creek to the north, Progressive Chiropractic and undeveloped property to the west, Austin Bank and Marshall Mall across Pinecrest Drive East to the south, and a Marshall School District administrative office building to the east. A general Site location map, Site map, historical topographic maps and aerial photographs, and a Federal Emergency Management Agency (FEMA) flood plain map are provided in Appendix A. Appendix B provides photographs taken during the July 2006 Site reconnaissance. Appendix C provides chain-of-title information. Historical environmental documents and reports are provided in Appendix D. The environmental database report is provided in Appendix E.

This ECP Report classifies the property into one of seven DoD Environmental ECP categories as defined by the S.W. Goodman Memorandum dated October 21, 1996. The property classification categories are as follows:

- Category 1: Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).
- Category 2: Areas where only release or disposal of petroleum products has occurred.
- Category 3: Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response.

- Category 4: Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken.
- Category 5: Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken.
- Category 6: Areas where release, disposal, and/or migration of hazardous substances has occurred, but required actions have not yet been implemented.
- Category 7: Areas that are not evaluated or require additional evaluation.

### **1.3 ASSUMPTIONS AND LIMITATIONS**

This report was prepared to permit formulation of an opinion of the environmental condition of the Site. Opinions on the environmental conditions at the Site are based on information from the visual reconnaissance, interviews, and collection and review of readily available information. New information or changes in Site use could require a review and possible modification of the findings and conclusions contained in this report.

The information obtained from the USAR, the USAR representatives, individuals interviewed and prior environmental reports was considered to be accurate unless reasonable inquiries indicated otherwise. Conditions observed were considered representative of areas that were not accessible unless otherwise indicated.

This ECP Report presents a summary of readily available information on the environmental conditions of, and concerns relative to, the land, facilities, and real property assets at the USAR Center. Its findings are based on a record search of readily available documents, a thorough review of the applicable and relevant documents, a visual reconnaissance conducted on July 24, 2006, and interviews with personnel knowledgeable about the Site and its history. Extensive environmental investigations and reports and Site historical documents were reviewed in support of this ECP. Information obtained from these other studies is reflected within this report by reference. A complete list of references is provided as Section 9.0.

All Site buildings were visually inspected during the Site reconnaissance. However, a 100% visual reconnaissance of each building (e.g., attics, crawl spaces, etc.), was not practical due to accessibility restrictions. TEJV personnel were not allowed to enter the arms storage room due to security restrictions. No sampling or analysis of any media was conducted during this survey.

## 2.0 SITE LOCATION AND PHYSICAL DESCRIPTION

The Site reconnaissance included a driving tour of the facility and the surrounding area, and a walking assessment of the Site and buildings including the Training Building and the organizational maintenance shop (OMS). The visual reconnaissance was conducted by TEJV personnel on July 24, 2006, to field-verify information produced in the document review and to identify recognized environmental conditions of property. All roads on the Site accessible by two-wheel drive vehicle were driven or walked during the reconnaissance.

A reconnaissance of the Site perimeter was conducted to evaluate adjacent property uses that could contribute to any environmental contamination detected on the Site. TEJV personnel drove on roads along the perimeter and in the surrounding area to visually identify any contiguous properties that appear, in TEJV's professional judgment, to have contamination that could migrate to the Site. The findings of the perimeter survey are presented in Section 4.0.

### 2.1 SITE LOCATION

The Site is at 1209 Pinecrest Drive East in Marshall, Harrison County, Texas. As shown on Figure 1 in Appendix A, the Site is in a commercially developed area in the south central portion of Marshall. It is bordered by Marshall High School to the north, Marshall School District to the east, and commercial properties to the west and south. Residential subdivisions are further north, west, and south.

### 2.2 ASSET INFORMATION

Facility Name and Address:	Marshall USAR Center (TX053) 1209 Pinecrest Drive East Marshall, Texas 75670
Property Owner:	U.S. Government
Date of Ownership:	August 12, 1958
Current Occupant:	Detachment 1, 952 <sup>nd</sup> Engineering Company
Zoning:	General Business (C-3)
County, State:	Harrison County, Texas
USGS Quadrangle:	Marshall East, Texas
Latitude/Longitude:	32° 31' 40.1"N; 94° 21' 15.8"W

**Legal Description:** All those certain pieces or parcels of land being part of "Lot 236, OL SE, BLD" Subdivision, with a Geo ID of 03010.05125.00000.000000, situated and lying in the City of Marshall, Harrison County, State of Texas. Assessor's Parcel No: R000039358.

A copy of the chain-of-title report, which includes a complete legal description, is provided in Appendix C.

### **2.3 PHYSICAL DESCRIPTION**

A Site map of the USAR Center is provided as Figure 2 in Appendix A. Photographs 1 through 8 show the Site perimeter. Photographs 9 through 16 show adjacent properties. Photographs 17 through 40 show Site improvements, the interior and exterior of the buildings, specific environmental conditions, or other Site-specific items.

The USAR Center is on 3.78 acres of land with two permanent buildings: a 4,472-square-foot Training Building and a 1,328-square-foot OMS, which is currently inactive. The Training Building and OMS walls are concrete block with brick veneer. Other improvements on the Site include a vehicle wash rack (VWR) and associated oil-water separator (OWS); and paved privately owned vehicle (POV) parking and military equipment parking (MEP) areas. Also located on the Site are two portable steel sheds used for petroleum, oil and lubricants (POL) and hazardous materials storage, and three steel mobile shipping container express (CONEX) boxes used to store field equipment.

The perimeter of the OMS and MEP area is secured by a chain-link fence along Mustang Drive, with two vehicle access gates located on the west side, and a pedestrian and vehicle access gate that both open into the POV parking lot located on the south side. Approximately one-third of the Site is considered impervious (asphalt parking areas, driveways, concrete walkways, building footprints, etc.), while the remainder is covered by lawn except for the northern portion of the MEP area that is gravel covered. The Site is bordered to the south by Pinecrest Drive East and to the west by Mustang Drive. A concrete-lined drainage feature known as Turtle Creek is along the northern border of the property.

Topographically, the Site is relatively flat with a gentle slope to the north. No signs of erosion, excavation, or fill were observed on the Site.

The Training Building includes classrooms, a kitchen/break room, restrooms, offices, an arms storage room, supply rooms, and mechanical room. The interior of the building appeared to be well maintained during the Site reconnaissance. A classroom, mechanical room, kitchen/break room, and restrooms occupy the northern part of the Training Building. A classroom, offices, and an arms room occupy the southern portion of the Training Building. No concerns were identified in the interior. The arms storage room, reportedly used to store infantry small arms and ammunition, was not accessed by

TEJV personnel due to security reasons. No evidence of chemical or petroleum releases was observed inside any room in the Training Building. West of the Training Building is a covered concrete pad used as an outdoor break area.

The OMS is a one-story, rectangular structure within chain-link security fencing, located north of the Training Building. The interior of the OMS is one room separated into sections by chain-link fencing and storage shelves. During the Site reconnaissance, the OMS was inactive and OMS operations were in the process of being transferred to the Red River Army Depot. A self-contained parts washer was located along the west wall of the OMS. Two flammable materials storage cabinets in the OMS contain paints and primers in aerosol containers (16 ounces and less).

A VWR and associated OWS are west of the OMS. When the OMS was active, POLs and hazardous materials were stored in two portable metal containers within the fenced area, east of the VWR. The metal containers currently store new and used POLs and hazardous materials that have yet to be transferred to the Red River Army Depot. According to the records review, the USAR removed a VWR and associated OWS in 1999. The removed VWR and OWS were located near the OMS.

Three CONEX boxes and the MEP area are also within the OMS security fence. Five bulldozers and one earth mover were in the MEP area during the Site reconnaissance. South of the MEP area and outside the OMS security fence is a solid waste Dumpster. No significant oil staining or any other staining was observed in the MEP area.

## **2.4 SITE HYDROLOGY AND GEOLOGY**

### **2.4.1 Surface Water Characteristics**

Appendix A provides a topographic map (Figure 1) of the Site and surrounding area. As shown on the map, the Site gently slopes to the north and is approximately 328 feet above mean sea level. The Site drains north toward Turtle Creek, a concrete-lined drainage feature, and east toward a drainage ditch that flows north to Turtle Creek. Turtle Creek is the only surface water body present on the Site or adjacent areas. The nearest surface water bodies are two small unnamed ponds, one located approximately three-quarters of a mile to the east and the other approximately three-quarters of a mile to the southwest. A review of the FEMA Flood Insurance Rate Map, Panel Number 4803190005C, indicated that the northernmost portion of the Site along Turtle Creek may lie within the 100-year flood plain.

Based on the Harrison County soils map from the U.S. Department of Agriculture Natural Resource Conservation Service (NRCS), the predominant surface soil type on the Site is the Bernaldo soil component. Bernaldo soils are composed of silts and clays and are moderately well-drained soils with moderate infiltration rates. Bernaldo soils are not listed as hydric by the NRCS.

## 2.4.2 Hydrogeological Characteristics

No wells or springs were observed on the Site. The Site and surrounding area are served with public water by the City of Marshall. A database search was conducted for federal U.S. Geological Survey (USGS) wells, federal Public Water Supply (PWS) System wells, and state-registered wells within one mile of the Site (see the Environmental Data Resources, Inc. [EDR] Report in Appendix E). Two unused PWS System wells were identified on databases for sites within one mile.

The Site is located in the North East Texas Regional Water Planning Area, within the Cypress Creek Basin. The two major aquifers in this area are the Carrizo-Wilcox and Trinity aquifers. Also, four minor aquifers exist in the region: the Blossom, Nacatoch, Queen City, and Woodbine aquifers. Groundwater is limited in quality and quantity in large portions of the North East Texas Region and, consequently, most of the region relies on surface water supply. For example, in the Sulphur Basin, 91% of the water used is surface water; 89% of water used in the Cypress Creek Basin is surface water and, in the Sabine River Basin, 81% of the need is met by surface water. In the portion of the Red River Basin in the region, 88% of the water supply used is surface water.

The Wilcox Group consists of sand units, silts, clays and lignites. Water transmissive units in the Wilcox Group are discontinuous both vertically and laterally; therefore, the water-bearing zones in the Wilcox cannot be classified as a single, homogeneous water-bearing zone. Groundwater, confined in some areas, and unconfined in others, flows south to southeast.

The City of Marshall is within the West Gulf Coastal Plain Physiographic region. Information provided in environmental databases indicated that the lithology underlying the Site consists of the Tertiary-Aged Eocene Claiborne Group.

The City of Marshall owns two registered water wells within one mile of the Site. Water well number 3530703 is located one-half to one mile north-northeast of the Site. The well is at a higher elevation than the Site and has a reported depth of 375 feet. The well was installed in 1937 and is currently unused. Water well number 3530704 is located approximately three-quarters of a mile to the north and at a higher elevation than the Site. The well has a depth of 473 feet, was installed in November 1941, and is currently unused.

Seventeen environmental soil borings are registered for Tie Investors, LLC, located approximately one-quarter mile to the northeast. The borings were completed to a depth of 5 to 15 feet in 2003. Geology was reported as red sand fill underlain by sandy clay, silty clay, clayey sand, and clay.

Based upon surface topography, shallow groundwater flow is expected to be generally north-northeast, toward Turtle Creek.

## **2.5 SITE UTILITIES**

The Site is served by public utilities. Southwestern Electric Power Company (SWEPCO) provides electricity to the Site. Entex Gas Utility Company provides natural gas to the Site. The City of Marshall provides water and sewer services for the Site. Olympic Waste Services, Inc. provides solid waste and wastewater disposal services.

## **2.6 WATER SUPPLY WELLS AND SEPTIC SYSTEMS**

As described in Section 2.4.2, there are two unused City of Marshall wells within one mile of the Site. Because the Site is served by a public sanitary sewer system, there are no septic systems on the Site, and no known systems were identified in the area.

### 3.0 SITE HISTORY

#### 3.1 HISTORY OF OWNERSHIP

Land titles for the Site were reviewed back to 1915. Appendix C contains a historical chain-of-title report completed for the Site. Key historical deed transfers of the Site within the last 60 years are as follows:

- October 14, 1946 — Lawrence P. and Kaye Miller to James P. and Bernadine C. Thorn
- June 6, 1950 — Bernadine Thorn (widow) to Roger and Mary Magers
- August 12, 1958 — Roger and Mary Magers to the United States of America

The chain-of-title report did not identify any environmental liens, institutional controls or engineering controls of record for the USAR Center property.

#### 3.2 PAST USES AND OPERATIONS

Important events in the facility's development, administration, and mission are summarized in Table 1.

Year	Summary of Historic Events at Marshall USAR Center
1958	Site acquired by the U.S. Government
1959	Marshall USAR Center constructed
1999	Previous OWS and VWR removed and replaced by current system
2006	Facility Closure Plan prepared

Historical information sources suggest that the Site was undeveloped prior to the construction of the USAR Center in 1959.

Historic uses of the USAR Center included administrative and educational operations, and maintenance and washing of military vehicles. The Site was historically used by reservists for drill activities on varying weekends throughout the year. OMS operations are being transferred to the Red River Army Depot and several military vehicles, related maintenance equipment, POLs, and hazardous materials remain on the Site.

Historical topographic maps and aerial photographs provide information about the Site and surrounding area. Figures 3 and 4 in Appendix A present topographic maps of the Site and surrounding area dated 1962 and 1978, respectively. Figures 5 through 10 present aerial photographs of the Site and surrounding areas dated 1947, 1963, 1984, 1990, 1995, and 2004, respectively.

Pertinent observations on the historical USGS topographic maps are summarized below.

- **1962 and 1978 (Figures 3 and 4).** These topographic maps show the Site developed. Surrounding properties to the east, north, and south appear undeveloped.

Pertinent observations on the historical aerial photographs are summarized below.

- **1947 (Figure 5).** This aerial photograph shows the Site undeveloped and the surrounding area properties as residentially developed or undeveloped.
- **1963 (Figure 6).** This aerial photograph shows the Site and adjacent property to the west developed and the other adjacent properties as undeveloped.
- **1984 through 2004 (Figures 7 through 10).** These aerial photographs show the Site and surrounding properties to be developed with their existing structures. The Austin Bank, adjacent to the south, and an outparcel of the Marshall Mall do not appear in the 1984 aerial photograph, but are in the 2004 photograph.

EDR provided a review of the 1924 *Page's City Directory* for the Site and surrounding area. Pinecrest Drive East was not listed in the 1924 city directory. In addition, the TEJV reviewed Polk, Johnson, and Mullin-Kille & Demmer city directories dated 1955 through 2005 at roughly five-year intervals at the Marshall Public Library. The Site address was listed as the USAR Center in the 1959 and subsequent city directories.

The TEJV reviewed historical Texas Digital Sanborn fire insurance maps dated 1885, 1889, 1894, 1899, 1904, 1909, 1915, 1931, and 1947 available online through the Texas State Library and Archives Commission. There was no coverage for the Site.

According to a Harrison County Historical Museum Research Library librarian, the Site and surrounding areas were historically used as rice fields due to the flooding of Turtle Creek located on the north side the Site. Turtle Creek was paved with concrete to alleviate flooding. The librarian also stated that the area surrounding the Site was not commercially developed until the 1970s, when the Mall of Marshall and Marshall High School were constructed.

The earliest available information about the Site is 1947, which shows the Site as an undeveloped field. Based on the above information, historical land use at the Site property was undeveloped prior to development in 1959 as the USAR Center.

### **3.3 PAST USE, STORAGE, DISPOSAL, AND RELEASE OF HAZARDOUS SUBSTANCES**

Information related to the past use and storage of hazardous substances at the Site was compiled through review of available Site records, search of federal and state environmental databases, and interviews with USAR personnel.

### **3.3.1 Past Use and Storage of Hazardous Substances**

According to USAR personnel, the OMS is in the final stages of being transferred to nearby Red River Army Depot. Vehicle maintenance and washing activities have ceased; however, some OMS operations equipment and POLs remaining on the Site are in the process of being transferred to Red River Army Depot. Hazardous substances and POLs stored and used in vehicle maintenance activities included motor oil, lubricants, paints, antifreeze, adhesives, sealants, and degreasers. Except for 16-ounce or smaller aerosol paint cans in two flammable materials storage cabinets and a parts washer with fluid in the OMS maintenance bay, hazardous materials and wastes were stored in two portable buildings located near the OWS. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet in the Training Building.

There is no indication that CERCLA hazardous substances were stored at the Site for one year or more in excess of corresponding reportable quantities.

### **3.3.2 Past Disposal and Release of Hazardous Substances**

Information related to past disposal and potential release of hazardous substances at the Site was compiled through review of available Site records, search of federal and state environmental databases, and interviews with USAR personnel. According to USAR personnel and Site records, the disposal of hazardous materials or hazardous wastes has not occurred on the Site.

According to USAR personnel, offsite disposal of hazardous waste was contracted through various qualified disposal companies that were awarded contracts through a bid system. A Spill Notification Form obtained at the Site indicated that a spill of approximately 15 gallons of diesel fuel and hydraulic fluid occurred in the MEP area on December 1, 2005. The spill occurred when a crane rolled over during loading/unloading activities. The spill occurred on the north side of the driveway connecting the OMS to the VWR. In response to the spill, fluids were drained from the overturned crane to stop the leak and stained soil was manually excavated. USAR personnel stated that the spill did not leave the Site property boundary. No other releases of hazardous substances or petroleum products were identified.

No stained soil or stressed vegetation was observed on the Site during the Site reconnaissance. The MEP area and POV parking area did not show any signs of significant staining, and no noxious or foul odors were noted.

## **3.4 PAST BULK PETROLEUM STORAGE TANKS**

Based upon a review of available Site records, a search of federal and state environmental databases, and interviews with USAR personnel, it does not appear that bulk petroleum aboveground storage tanks (ASTs) or underground storage tanks (USTs) have been on the Site. The Site previously contained a subsurface OWS that was

registered as a UST in 1997. That OWS was removed in 2000, and was replaced with the current aboveground OWS which includes a 250-gallon AST containing wastewater from the OWS.

### **3.5 REVIEW OF PREVIOUS ENVIRONMENTAL REPORTS**

A review of Site records produced several applicable reports pertaining to the Site. The following subsections provide a brief summary of these reports. Copies of the reports, unless otherwise specified, are provided in Appendix D. Only pertinent sections of reports that addressed multiple sites are presented in Appendix D.

#### **3.5.1 Environmental Baseline Survey Report**

Engineering, Compliance & Construction, Inc. (ECCI) prepared an *Environmental Baseline Survey* (EBS) in November 2004 for the USAR, 90<sup>th</sup> Regional Readiness Command (RRC). At the time of the EBS, the OMS was operational. "In accordance with the ASTM Standard D 5746-98 for *Standard Classification of Environmental Condition of Property Area Types for Defense Base Closure and Realignment Facilities*," ECCI classified the Site as an ECP Area Type 1 Property. An ECP Area Type 1 Property is an area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).

#### **3.5.2 Asbestos Inspection Report**

An asbestos inspection of the Site was performed on July 20, 1999 (U.S. Army 90<sup>th</sup> Regional Support Command [RSC], 1999). During the inspection, samples of suspect asbestos-containing material (ACM) were collected from the Training Building, including 12-inch vinyl floor tile and mastic, replacement floor tile and mastic, drywall, duct sealant, vibration collars, mudded joints, corrugated pipe wrap, ceiling tile, and pipe sealant. Findings were as follows:

- Asbestos was detected in both the corrugated pipe insulation and mudded elbows of the domestic cold water lines in the Training Building. The friable thermal system insulation (TSI) was classified in damaged condition with a low potential for disturbance.
- Pipe sealant on the hot water supply lines (nonfriable) and duct sealant on the heating, ventilating, and air conditioning (HVAC) duct (nonfriable) in the Training Building was found to contain asbestos. Both were classified in good condition with a low probability for disturbance.
- Presumed ACM vibration collars (flexible duct connectors) were found in the men's locker room in the Training Building and in the OMS. Both sets of collars were considered friable, in damaged condition, and have a high probability of disturbance.

The scope of the 1999 inspection was confined to rooms and areas accessible on the days of the survey. Some rooms and areas were reportedly not made available for inspection, or were inaccessible for reasons of security or unavailability of keys, and were not included in the inspection. In addition, the report stated inaccessible suspect materials could also be located between walls, in voids, or in other concealed areas. Therefore, additional ACM could exist in inaccessible areas on the Site.

### **3.5.3 Radon Report**

A Site-specific radon study was performed on the USAR Center with results recorded in an August 29, 1994, memo (U.S. Army 90<sup>th</sup> RSC). Testing was performed at one location at the Site. The activity level for the sample collected in the main building was 3.0 picocuries per liter (pCi/L). The USEPA-recommended action level for radon is 4.0 pCi/L.

### **3.5.4 Lead-Based Paint Report**

A LBP survey was performed on the Site and a report issued in July 2003 (U.S. Army 90<sup>th</sup> RSC). LBP was detected on a metal outside door at the OMS. No immediate actions were recommended. The report advised following proper working and environmental protection procedures if lead-positive areas were to be disturbed. Also, the report concluded that, if untested paint was "uncovered", additional testing would be necessary.

### **3.5.5 Polychlorinated Biphenyls Report**

A polychlorinated biphenyl (PCB) assessment report for the Site was prepared by the U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) in 1997. The report states that three pole-mounted transformers (PMTs) marked #12602, #12603, and #12604 were located on the west side of the Training Building. The assessment stated that the PMTs were manufactured by Central Malone in 1958, they had not been tested for PCB content, and the transformers' condition was "fair: some rust." Also, the report stated none of the fluorescent lighting fixtures observed in the facility was operated by PCB-containing ballasts.

### **3.5.6 Cultural Resources Report**

Parsons Engineering Science, Inc. prepared two reports - *Archaeological Assessment and Reconnaissance of 90<sup>th</sup> Regional Support Command Facilities in Texas* and *Management Summary, Cultural Resources Assessment of 90<sup>th</sup> Regional Support Command, Facilities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas* in February 1998. The assessments concluded the Site has a "low" archaeological potential due to the distance from permanent water sources and the results of nearby surveys. No archaeological survey was recommended, and the Texas State Historic Preservation Officer concurred with the report's recommendation. The assessments also concluded that, based on a construction date of 1946, the USAR Center is potentially eligible for the

National Register of Historic Places and, since neither of the buildings has been significantly altered, it was recommended that they be further surveyed and evaluated to determine whether they are eligible for listing on the National Register of Historic Places. Other sources mentioned in this ECP have indicated the actual date of building construction to be 1959, not 1946.

### **3.5.7 Oil-Water Separator Evaluation Report**

EnSafe Inc. prepared an *Oil-Water Separator Evaluation* for the 90<sup>th</sup> RRC in May 2000. At the time of the report, two OWSs were located on the Site. Recommendations in the report are as follows.

- Follow through with plans to abandon/remove OWS at the southeast of the VWR.
- Install curbing and wash rack canopy to prevent storm water infiltration to the OWS.
- Establish a schedule for routine sludge, oil, and sediment removal based on usage and material accumulation.
- Inspect OWS system annually.
- Develop site-specific written program which describes procedures and management practices used to ensure compliance with the Clean Water Act.

### **3.5.8 Architectural Assessment Report**

Parsons Engineering Science, Inc. performed a *Historical Architectural Resources Assessment of 90<sup>th</sup> Regional Support Command Facilities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas* in February 1998. The report lists the construction of the Training Building and the OMS as dating to 1946 and further states that, since neither of the buildings have been significantly altered, it is recommended that they be further surveyed and evaluated to determine whether they are eligible for listing on the National Register of Historic Places. Other sources mentioned in this ECP have indicated the actual date of building construction to be 1959, not 1946.

#### 4.0 ADJACENT PROPERTIES

Figure 10 in Appendix A provides a 2004 aerial view of the Site and adjoining properties. The Site is bordered on the south and west by commercial properties, on the east by Marshall School District, and on the north by Marshall High School. Table 2 provides a list of adjacent properties with their directional location from the Site. The zoning of the adjacent parcels is also listed in Table 2.

<b>Table 2 List of Adjacent Properties</b>			
<b>Direction from Site</b>	<b>Name/Type of Property</b>	<b>Address</b>	<b>Zoning</b>
North	Marshall High School, then commercial	1900 Maverick Drive	General Business District, C-3
South	Marshall Mall	1300 Pinecrest Drive East	General Business District, C-3
East	Marshall School District, then residential	1305 Pinecrest Drive East	General Business District, C-3
West	Progressive Chiropractor, then residential	1203 Pinecrest Drive East	General Business District, C-3

A circular area of stressed vegetation, approximately 10 feet in diameter, was observed on the adjacent property to the north, near the northeast corner of the Site. The cause of the stressed vegetation could not be determined, but did not appear to be related to the USAR Center. No recognized environmental conditions or other potential environmental conditions associated with adjoining properties were identified during the Site reconnaissance. No environmental database-listed facilities were identified on the adjoining properties during the records review.

Appendix A provides historical aerial photographs and topographic maps and Appendix E presents an environmental database report that was used to evaluate potential environmental impacts from adjacent and surrounding properties that may have also impacted the environmental conditions at the Site. Land use at the adjacent properties does not appear to have changed significantly over the years and does not appear to have impacted the environmental conditions of the USAR Center.

## **5.0 REVIEW OF REGULATORY INFORMATION**

A component of the ECP is the review of all reasonably obtainable federal, state, and local government records for the Site and surrounding properties where there has been a release or likely release of any hazardous substance or any petroleum product and that are likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product on the federal real property. An environmental database summary was obtained from EDR on July 18, 2006. The environmental database summary consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D 6008-recommended minimum search distances from the Site. A copy of the complete EDR report is included in Appendix E.

There were no other environmental permits issued for the Site; therefore, there were no permit applications or associated permit documentation available for review. There were no known contamination events on the Site that required an environmental cleanup; therefore, the Site did not participate in the Installation Restoration Program, Military Munitions Response Program, or a Compliance Cleanup program.

A review of reasonably accessible USAR environmental documents, Harrison County and Marshall, Texas, records, and aerial photographs of the property were reviewed to investigate land uses at the Site. The Harrison County Historical Museum Research Library, Harrison County Tax Assessor, and the Marshall Public Library were contacted to learn about historic uses of buildings and lands on the Site. Available information on past land uses and their potential impacts was assessed.

The TEJV conducted multiple interviews with relevant personnel to discuss general environmental interest and specific areas of interest identified during the records review and visual reconnaissance. Section 9.0 of this report identifies the individuals interviewed with respect to conditions and operations at the Site and the information from those interviews incorporated into this report.

The interviews included topics of general environmental interest and specific areas of interest identified during the records review and visual Site reconnaissance. Pertinent information from these interviews is incorporated into this report.

### **5.1 FEDERAL ENVIRONMENTAL RECORDS**

#### **5.1.1 Federal National Priorities List Sites within One Mile**

The National Priorities List (NPL) record is a USEPA list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the U.S. and its territories. NPL sites are targeted for long-term remedial action under CERCLA. According to the environmental database report, the USAR Center is not an NPL site, and no NPL sites were identified within one mile of the Site.

### **5.1.2 Federal CERCLIS Sites within One-Half Mile**

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies, and persons, pursuant to Section 103 of the Act. CERCLIS contains sites that are either proposed to be or are on the NPL, and sites that are in the screening and assessment phase for possible inclusion on the NPL.

CERCLIS No Further Remedial Action Planned (NFRAP) sites have been removed and archived from CERCLIS sites. NFRAP status indicates that, to the best of USEPA's knowledge, assessment at a site has been completed and that no further steps will be taken to list this site on the NPL unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with the site; it means that, based on available information, the location is not judged to be a potential NPL site.

According to the environmental database report, the USAR Center is not a CERCLIS or CERCLIS NFRAP site, and there are no CERCLIS or CERCLIS NFRAP sites within one-half mile of the Site.

### **5.1.3 Resource Conservation and Recovery Act Corrective Action Sites within One Mile**

Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACT) sites represent facilities that have generated or managed hazardous wastes and require corrective action. The Site is not a CORRACT site, and no RCRA CORRACT sites were located within one mile of the Site.

### **5.1.4 RCRA Transport, Treatment, Storage, and/or Disposal Facilities within One-Half Mile**

The RCRA Information (RCRAInfo) database includes selective information on facilities that generate, transport, and treat, store, and/or dispose (TSD) of hazardous waste as defined by 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. No RCRA transporters or TSD facilities were identified on the RCRAInfo database within one-half mile of the Site.

### **5.1.5 Federal RCRA Small- and Large-Quantity Generators List within One-Quarter Mile**

Conditionally exempt small-quantity generators (CESQG) generate less than 100 kg of hazardous waste, or less than one kg of acutely hazardous waste per month. RCRA small-quantity generators (SQGs) are defined as facilities generating between 100 kg and 1,000 kg of hazardous waste per month, while a large-quantity generator

(LQGs) is defined as a facility generating more than 1,000 kg of hazardous waste, or over 1 kg of acutely hazardous waste per month.

The USAR Center is a CESQG of wastes generated during former vehicle maintenance activities. No violations were reported for the Site. According to the environmental database report, no federal RCRA SQGs or LQGs were located within one-quarter mile of the Site.

#### **5.1.6 Federal Emergency Response Notification System List**

The Emergency Response Notification System (ERNS) provides information on reported releases of oil and hazardous substances. According to the environmental database report, the USAR Center is not listed on the ERNS List

### **5.2 STATE AND LOCAL ENVIRONMENTAL RECORDS**

The regulatory information presented below was obtained from the environmental database search report. Supplemental information was provided from database searches of the Texas Commission on Environmental Quality (TCEQ) Central Registry Query available at <http://www4.tceq.state.tx.us/crpub/>.

#### **5.2.1 State-Permitted Landfills or Solid Waste Disposal Sites within One-Half Mile**

Solid Waste Facilities/Landfill Sites 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. There were no permitted solid waste disposal facilities/landfills within one-half mile of the Site. There is no solid waste landfill, incinerator, or transfer station on the Site.

#### **5.2.2 State-Registered Leaking Petroleum Storage Tank Sites within One-Half Mile**

According to the environmental database report and the state of Texas' Leaking Petroleum Storage Tank (LPST) Database Query Web site, one LPST site was identified within one-half mile of the USAR Center. The City of Marshall Wastewater Treatment Plant (WWTP) at 5 Notch Road is approximately 2,625 feet north and at a higher elevation than the Site. A petroleum leak was discovered on January 28, 1993, following which a 550-gallon UST was removed. Soil contamination was determined to be "minor" by TCEQ. The LPST site has received closure from TCEQ, indicating that no further remedial action is required and that residual petroleum contamination does not pose a concern for human health or the environment.

The Site is not listed in the Texas LPST database.

### **5.2.3 State-Registered UST Sites within One-Quarter Mile**

USTs are regulated under RCRA Subtitle I and must be registered with the state department responsible for administering the UST program. According to the TCEQ Petroleum Storage Tank (PST) database, the USAR Center was identified as a UST site because of the former underground OWS. No documented releases were identified for the OWS. No closure report or sampling was available for review; however, contract information for the removal of the OWS contained photographs that showed it to be within an open subsurface concrete containment structure.

No other UST sites were identified within one-quarter mile of the USAR Center.

### **5.2.4 State Spills Incidents**

No spills incidents for the Site were listed on the TCEQ Spills Database.

### **5.2.5 Records of Contaminated Public Wells**

No contaminated PWS System wells were identified during this investigation. In addition, no wells were identified on the Site or adjoining property during the Site reconnaissance. As discussed in Section 2.4.2, two unused City of Marshall wells were identified within one mile of the Site.

### **5.2.6 Voluntary Cleanup Program Sites within One-Half Mile**

The Texas Voluntary Cleanup Program (VCP) was established to provide administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. The TCEQ and the Texas Railroad Commission maintains databases. The Texas Railroad Commission's VCP database includes sites for which incentives have been offered by the state for remediating oil- and gas-related pollutants 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. According to the environmental database report, there are no VCP sites located within one-half mile of the Site.

### **5.2.7 State Brownfields Program Sites within One-Half Mile**

Included in the listing are brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties targeted by Targeted Brownfields Assessments (TBA). The TBA program is designed to assist states, tribes, and municipalities in minimizing the uncertainties of contamination often associated with brownfields. Under the TBA program, USEPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. TBAs supplement and work with other efforts under USEPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields.

No State Brownfields sites were listed within one-half mile of the Site.

#### **5.2.8 State-Registered Sites with Engineering Controls within One-Half Mile**

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. No state-registered sites with Engineering Controls were listed within one-half mile of the Site.

#### **5.2.9 State-Registered Sites with Institutional Controls within One-Half Mile**

Institutional controls include administrative procedures, 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. No state-registered sites with Institutional Controls are listed within one-half mile of the Site.

#### **5.2.10 State-Registered Dry-Cleaning Facilities within One-Quarter Mile**

There are no dry-cleaning facilities within one-quarter mile of the site.

#### **5.2.11 Industrial and Hazardous Waste Database**

The TCEQ maintains an Industrial and Hazardous Waste (IHW) Database, which is developed from summary reports reported by waste handlers, generators, and shippers in Texas. According to the environmental database report, the USAR Center is not listed on the IHW Database.

#### **5.2.12 Commercial Hazardous and Solid Waste Management Facilities Listing**

The TCEQ maintains a Commercial Hazardous and Solid Waste Management Facilities Listing that includes commercial recycling facilities and facilities permitted or authorized (interim status) by the TCEQ. According to the environmental database report, the USAR Center is not listed on the Commercial Hazardous and Solid Waste Management Facilities Listing.

#### **5.2.13 Innocent Owner/Operator Program**

The TCEQ maintains the Innocent Owner/Operator Program (IOP) Database, which contains information on all sites that are in 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. According to the environmental database report, the USAR Center is not in the IOP Database.

#### **5.2.14 State Superfund Sites within One Mile**

The TCEQ maintains a State Superfund Registry database which includes listed and de-listed state Superfund sites. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using status funds are identified along with sites where cleanup will be paid for by potentially responsible parties. According to the environmental database report, there are no listed or de-listed state Superfund sites located within one mile of the Site.

#### **5.2.15 Current Emission Inventory Database**

The TCEQ maintains the Current Emission Inventory Database that lists, by company, actual emissions and TCEQ air accounts that emit USEPA criteria pollutants. According to the environmental database report, the USAR Center is not in the Current Emission Inventory Database.

#### **5.2.16 Notice of Violations Listing**

The TCEQ maintains a notice of violation (NOV) Listing for permit violations. According to the environmental database report, the USAR Center is not in the NOV Listing.

#### **5.2.17 Edwards Aquifer Permits**

The TCEQ maintains a listing of permits in the Edwards Aquifer Protection Program database. The Site is not within the Edwards Aquifer zone, and is not listed in the database.

#### **5.2.18 Environmental Liens Listing**

The state maintains an Environmental Liens Listing, which includes TCEQ liens placed against either State Superfund sites or Federal Superfund sites to recover costs incurred by TCEQ. According to the environmental database report, the USAR Center is not in the Environmental Liens Listing.

#### **5.2.19 Manufactured Gas Plant Sites within One Mile**

EDR maintains a proprietary Manufactured Gas Plants database. The database includes records of coal gas plants (manufactured gas plants) compiled by EDR. Manufactured gas sites were used in the United States from the 1800s to 1950s 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), sludge, 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. According to EDR, there are no manufactured gas plants located within one mile of the Site.

### 5.2.20 Historical Auto Stations and Dry Cleaners

EDR maintains proprietary databases of historical auto stations and dry cleaners, which were compiled from selected national collections of business directories. Historic gas stations include gas, gas station, filling station, auto, automobile repair, auto service station, and service station businesses; whereas historical dry cleaners include dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash and dry businesses. According to the environmental database report, the USAR Center site is not in the either of these databases.

### 5.3 TRIBAL ENVIRONMENTAL RECORDS

According to the environmental database report, no designated Indian Reservations or tribal environmental records are listed for the Site.

### 5.4 UNMAPPED SITES

Six unmapped sites were listed in the environmental database report. Unmapped sites are those with address information sufficient only to identify as within the zip code of the target Site. Further research was conducted using maps of the Site and surrounding area. None of the unmapped sites were found to be within the corresponding ASTM-defined minimum search distance for the databases on which the sites were listed.

### 5.5 SUMMARY OF PROPERTIES EVALUATED TO DETERMINE RISK TO SITE

Table 3 summarizes the two properties evaluated as potential risks to the Site. One of the two sites is the USAR Center. The Marshall WWTP is considered to represent a low risk to the Site, due to its distance from the Site and closure from TCEQ.

<b>Table 3 Summary of Properties Evaluated</b>				
<b>Company/Site</b>	<b>Database</b>	<b>Elevation in Regards to Site</b>	<b>Potential Risk to Site?</b>	<b>Comment</b>
Marshall USAR Center (Site)	PST	Equal	Low	Listed as a UST site for a former OWS. OWS was below surface grade within a concrete containment structure.
Marshall WWTP	LPST	Higher	Low	Listed a former 550-gallon UST. The tank was removed from the ground and closure was issued by TCEQ.

Based on an evaluation of available information and details concerning the identified sites, no "High Risk" sites were identified in the area of the Site. "High Risk" properties are those that exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

## **6.0 SITE INVESTIGATION AND REVIEW OF HAZARDS**

Findings documented in the following subsections are based on the July 24, 2006, Site and area reconnaissance, review of available Site records, and information obtained from USAR personnel.

### **6.1 USTs AND ASTs**

During the Site reconnaissance, no signs of bulk petroleum USTs or ASTs were observed on the Site or adjoining properties. An inactive OWS is above surface grade, and located within a concrete secondary containment. One 250-gallon AST, containing wastewater from the OWS, is also located within the containment. A grit chamber plumbed between the VWR and the OWS is located in a concrete sump. The OWS and containment structure were in good condition, free of stains or liquids, and did not appear to have impacted the Site. The gravity operated OWS is plumbed to the VWR and discharges to the sanitary sewer system.

### **6.2 INVENTORY OF CHEMICALS/HAZARDOUS SUBSTANCES**

USAR personnel provided a current inventory of chemicals/hazardous substances stored on the Site. The inventory includes various glues, POLs, cleaners, and paints, and is included in Appendix D. There is no indication that CERCLA hazardous substances were stored at the Site for one year or more, disposed, or released in excess of corresponding RQs.

### **6.3 WASTE DISPOSAL SITES**

No signs of landfilling or illegal waste disposal activities were observed on the Site during the Site reconnaissance.

### **6.4 PITS, SUMPS, DRY WELLS, AND CATCH BASINS**

The OWS grit chamber located below surface grade (discussed in Section 6.1) is the only pit, sump, dry well, or catch basin observed on the Site.

### **6.5 ASBESTOS-CONTAINING MATERIAL**

As discussed in Section 3.5.2, an asbestos inspection was performed on the Training Building in 1999 (U.S. Army 90<sup>th</sup> RSC). TSI containing asbestos was identified in corrugated pipe insulation and mudded elbows of the domestic cold water lines in the Training Building. Additionally, pipe sealant on the hot water supply lines and duct sealant on the HVAC duct in the Training Building was found to contain asbestos. Presumed ACM (vibration collars) were found in the men's locker room in the Training Building and in the OMS. During the Site reconnaissance, building materials and their condition appeared similar to those noted in the 1999 asbestos inspection report.

## **6.6 PCB-CONTAINING EQUIPMENT**

A PCB assessment conducted in 1997 (USACHPPM) identified three PMTs manufactured by Central Malone in 1958 which had not been tested for PCB content. The transformers' condition was listed as "fair: some rust." At the time of the Site reconnaissance, three PMTs on the west side of the Training Building were observed to be in fair condition with surface rust and no signs of visible leaks. The transformers are owned and maintained by SWEPCO, the local electricity provider, who was contacted by the TEJV regarding its transformer management practices. SWEPCO personnel stated all transformers manufactured prior to 1979 are assumed to contain PCBs, while transformers manufactured after 1979 are assumed to be free of PCBs. Transformers are tested for PCBs by SWEPCO when they are taken out of service. Also, SWEPCO personnel confirmed the transformers at the Site are owned and maintained by SWEPCO and they were installed prior to 1979. Based on information from SWEPCO, the three PMTs located on the west side of the Training Building are assumed to contain PCBs since they were manufactured in 1958.

## **6.7 LEAD-BASED PAINT**

The buildings at the Site were constructed in 1959 and are presumed to have been painted with LBP. A LBP survey of the Site performed in 2003 (U.S. Army 90<sup>th</sup> RSC) indicated a metal exterior door to the OMS was the only area found to contain LBP. No immediate actions were recommended. The report advised following proper worker and environmental protection procedures in lead-positive areas that would be disturbed. The report also recommended additional testing if untested paint is "uncovered." During the Site reconnaissance, painted surfaces were observed to be in good condition.

## **6.8 RADON**

A review of the USEPA Map of Radon Zones for Texas classified the City of Marshall, Harrison County, Texas to be in Zone 3, which is classified as "low potential" for radon, or less than 2 pCi/L. According to Federal Area Radon information summarized in the EDR report, 22 sites have been tested for radon in Harrison County. The results averaged 0.5 pCi/L, with a maximum of 1.2 pCi/L. Radon information was obtained from the National Radon Database, which was developed by the USEPA and is a compilation of the USEPA/State Residential Radon Survey and the National Residential Radon Survey conducted from 1986 to 1992.

A Site-specific radon study was performed on the USAR Center with results published in an August 29, 1994, memo (U.S. Army 90<sup>th</sup> RSC). Testing was performed at one location in the Training Building and the test result was 3.0 pCi/L. The USEPA-recommended action level for radon is 4.0 pCi/L.

## **6.9 UNEXPLODED ORDNANCE**

No indications were found during the Site reconnaissance or during the review of records to indicate the presence of munitions and explosives of concern at the Site.

## **6.10 RADIOLOGICAL MATERIALS**

During the Site reconnaissance and records review process, no indications were found of the past storage or use of radiological materials at the USAR Center.

## **7.0 REVIEW OF SPECIAL RESOURCES**

### **7.1 LAND USE**

The Site is located within the city limits of Marshall, Texas. A City of Marshall Planning and Community Development employee stated the property is zoned General Business District (C-3). The surrounding properties are also classified as C-3 with no industrial zoning located within one-half mile of the Site. Currently there are no plans to change the zoning of the property.

### **7.2 COASTAL ZONE MANAGEMENT**

The Texas Coastal Management Plan is administered by the Texas General Land Office. The Texas coastal zone extends southwest along the coast from the Sabine River to the Rio Grande River, seaward into the Gulf of Mexico for a distance of 10.35 miles, and inland to include 36 counties. The coastal zone includes all counties bordering the Gulf of Mexico and extends approximately 40 miles inland. It includes all estuaries and tidally influenced streams and bounding wetlands. The USAR Center is approximately 200 miles inland from the Gulf of Mexico. Harrison County is not included in the Texas Coastal Management Plan.

### **7.3 WETLANDS**

A search for wetland information was conducted online from the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map data Web site, with no digital data available for the Site. Additionally, EDR did not have wetlands information for the Site. No vegetation typical of wetlands was observed on the Site.

### **7.4 100-YEAR FLOODPLAIN**

A review of FEMA Flood Insurance Rate Map, Panel Number 4803190005C, indicated that the northernmost portion of the Site along Turtle Creek may lie within the 100-year flood plain (Figure 11).

### **7.5 NATURAL RESOURCES**

A search of the USFWS Threatened and Endangered Species List indicated that the Bald Eagle and the Louisiana Black Bear are listed as threatened or endangered in the Marshall, Harrison County, Texas area. No records were found to indicate that any of these species, or any other species listed as endangered or threatened, have been identified on the Site or adjacent properties. Except for potential incidental use by migrants, the threatened and endangered species are unlikely to occur at the Site. No Site-specific natural resource reports were available for review.

## **7.6 CULTURAL RESOURCES**

Parsons Engineering Science, Inc. performed a *Historical Architectural Resources Assessment of 90<sup>th</sup> Regional Support Command Facilities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas* in February 1998. The report lists the construction of the Training Building and the OMS as dating to 1946 and further states that, since neither of the buildings have been significantly altered, it is recommended that they be further surveyed and evaluated to determine whether they are eligible for listing on the National Register of Historic Places. A review of the historical aerial photograph dated 1947 shows the property to be undeveloped. Furthermore, according to chain-of-title information, the Site was not acquired by the U.S. Government until 1958. Therefore, the Site buildings appear to have been constructed in 1959 and not in 1946, as reported in the historical architectural resources assessment.

Parsons Engineering Science, Inc. also performed an *Archaeological Assessment and Reconnaissance of 90<sup>th</sup> Regional Support Command Facilities in Texas* in February 1998. The report lists the Site as having a “low” archaeological potential due to the distance from permanent water sources and the results of nearby surveys. No archaeological survey was recommended, and the Texas State Historic Preservation Officer concurred with the report’s recommendation.

## **7.7 OTHER SPECIAL RESOURCES**

There are no other known resources that could affect the Site.

## 8.0 CONCLUSIONS

The TEJV, under contract to the USACE, Louisville District, has prepared this ECP Report for the Marshall USAR Center (Facility ID TX053), located at 1209 Pinecrest Drive East in Marshall, Harrison County, Texas. The USAR Center is on 3.78 acres of land with two permanent structures: a 4,472-square-foot Training Building and a 1,328-square-foot OMS. The site is currently occupied by Detachment 1, 952<sup>nd</sup> Engineering Company. The OMS is no longer operational and OMS operations are in the process of being transferred to the Red River Army Depot.

Findings of this ECP are based on existing environmental information, including visual observations, Site records, and federal, state, and local database and file information, related to the storage, release, treatment, or disposal of hazardous substances or petroleum products or derivatives on the property. The following paragraphs present the findings related to areas evaluated during the ECP process.

- **Hazardous Substances.** Chemicals containing CERCLA hazardous substances would have historically been used and stored at the Site in amounts necessary to support unit-level vehicle and building maintenance activities. However, the quantities stored would not have exceeded 1,000 kg or the RQ of designated hazardous substances, or one kg of acutely hazardous waste. Two flammable materials storage cabinets located in the OMS contain hazardous materials such as carburetor cleaner, paints, and thinner in containers one gallon or less in size. Two portable metal sheds that contain new and used POLs and one-gallon containers of vehicle shop products. There is no evidence that the chemicals used or stored were released or disposed of at the Site.
- **USTs/AST.** No bulk petroleum USTs have historically been located on the Site or are currently located on the Site. An OWS located within a subsurface concrete secondary containment was registered as a UST with the TCEQ. That OWS was removed and replaced with the current OWS in 2000. The existing inactive OWS is above surface grade, is located within a concrete secondary containment, and discharges to the sanitary sewer. One 250-gallon AST, containing wastewater from the OWS, is also located within the containment. A grit chamber plumbed between the VWR and the OWS is located in a concrete sump. During the Site reconnaissance, the OWS and containment structure were in good condition, free of stains or liquids, and did not appear to have an impact on the Site.
- **Non-UST/AST Petroleum Storage.** Petroleum storage has occurred in designated areas within the OMS and in two portable POL storage sheds in the OMS area. POL and hazardous materials were identified in these areas during the Site reconnaissance from former operation within the OMS. No releases or staining were observed and the materials were properly stored. No documentation was available for review that would indicate that non-UST/AST petroleum products in

excess of 55 gallons were stored for one year or more on the Site, or that petroleum products were spilled or disposed of in the OMS area.

A Spill Notification Form obtained on the Site indicated that a spill of approximately 15 gallons of diesel fuel and hydraulic fluid occurred in the MEP area on December 1, 2005. The spill occurred when a crane rolled over during loading/unloading activities. The spill occurred on the north side of the driveway connecting the OMS to the VWR. In response to the spill, fluids were drained from the overturned crane to stop the leak and stained soil was manually excavated. USAR personnel stated that the spill did not leave the Site property boundary. No other releases of hazardous substances were identified.

- **Wash Water Discharge.** An inactive, but intact, covered VWR is located in the southwest corner of the fenced OMS/MEP area. The OWS associated with the VWR discharges to the city sanitary sewer system.
- **Polychlorinated Biphenyls.** A PCB assessment was performed in 1997 (USACHPPM) to address three PMTs located on the west side of the Site and fluorescent lights in the Training Building. The assessment report stated PMTs were manufactured by Central Malone in 1958, none of the transformers had been tested for PCBs and the transformers' condition was listed as "fair: some rust." Also, the PCB assessment report stated none of the fluorescent lighting fixtures observed in the facility was operated by PCB-containing ballasts. During the July 2006 Site reconnaissance, three PMTs on the west side of the Training Building appeared in fair condition with surface rust and no visible leaks. SWEPCO, the local electricity company and owner of the three PMTs, was contacted and their personnel stated all SWEPCO transformers manufactured prior to 1979 are assumed to contain PCBs, while transformers manufactured after 1979 are assumed to be free of PCBs. Based on information from SWEPCO, the three PMTs on the Site are assumed to contain PCBs since they were manufactured in 1958.
- **Asbestos-Containing Material.** An asbestos inspection of the Site performed on July 20, 1999 (U.S. Army 90<sup>th</sup> RSC) found asbestos in the Training Building in both the corrugated pipe insulation and mudded elbows of the domestic cold water lines. Also, pipe sealant on the hot water supply lines and duct sealant for the HVAC ductwork in the Training Building contained asbestos. Presumed ACM (vibration collars) were found in the men's locker room in the Training Building and in the OMS. During the July 2006 Site reconnaissance, building materials and condition appeared similar to those noted in the 1999 asbestos inspection report.
- **Lead-Based Paint.** A LBP survey performed at the Site in 2003 (U.S. Army 90<sup>th</sup> RSC) indicated LBP was found on an exterior pedestrian door to the OMS. No immediate actions were recommended. During the July 2006 Site reconnaissance, painted surfaces were observed to be in good condition.

- **Radiological Materials.** No radiological materials were identified during the Site reconnaissance. There is no evidence of a release of radiological materials at the Site.
- **Radon.** A Site-specific study performed on the USAR Center (U.S. Army 90<sup>th</sup> RSC, 1994) tested one area in the Training Building. The radon activity level for the Training Building was 3.0 pCi/L. The USEPA-recommended action level is 4.0 pCi/L.
- **Munitions and Explosives.** No evidence was found during the Site reconnaissance or records review process of the past presence of munitions and explosives of concern.
- **Surrounding Properties.** Potential environmental sites of concern, located within corresponding ASTM D 6008–defined minimum search distances from the Site, were evaluated. Land use at the adjacent properties does not appear to have changed significantly over the years and does not appear to have impacted the environmental conditions of the USAR Center.

Areas of potential environmental concern were reviewed and the TEJV found one significant concern relating to the environmental condition of the Site. On December 1, 2005, approximately 15 gallons of diesel fuel and hydraulic fluid were spilled in the MEP area, on the north side of the driveway connecting the OMS to the VWR, when a crane rolled over during loading/unloading activities. In response to the spill, fluids were drained from the overturned crane to stop the leak and stained soil was manually excavated.

In accordance with DoD policy defining the classifications (see S.W. Goodman Memorandum dated October 21, 1996), the Site has been classified as Category 2. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

## 9.0 REFERENCES

### PERSONS CONTACTED

- Ruth Briggs, Harrison County Research Library, Librarian and Marshall life long resident, (903) 938-2680, July 24, 2006.
- Sergeant First Class Garrett Spooner, Marshall USAR Center, Detachment 1, 952<sup>th</sup> Engineering (EN) Company (CO), (901) 938-2252, July 25, 2006.
- Winston Robinson, Planning and Community Development Director, Department of Planning and Development, Marshall, Texas, (903) 935-4459, August 29, 2006.
- Becky McJenkins, Environmental Engineer, Southwestern Electric Power Company, (888) 216-3523.

### RESOURCES CONSULTED

- ECCL. *Environmental Baseline Survey of Marshall USAR Center*. February 2006.
- EnSafe Inc. *Oil-Water Separator Evaluation*. May 5, 2000.
- Environmental Data Resources Inc. 440 Wheelers Farms Road, Milford, Connecticut 06461.
- FEMA Flood Hazard Insurance Map,  
<http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView>
- Goodman, S.W. *Memorandum: Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations*. October 21, 1996.
- Marshall Library, City Directories.
- National Wild and Scenic Rivers. <http://www.nps.gov/rivers/wildriverslist.html#tx>.
- Parsons Engineering Science, Inc. *Archaeological Assessment and Reconnaissance of the 90<sup>th</sup> Regional Support Command Facilities in Texas*. February 1998.
- Parsons Engineering Science, Inc. *Historic Architectural Resources Assessment of the 90<sup>th</sup> Regional Support Command Facilities in Texas*. February 1998.
- Parsons Engineering Science, Inc. *Management Summary Cultural Resources Assessment of 90<sup>th</sup> Regional Support Command Facilities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas*. February 1998.

- TCEQ PST Registration Database Query Results obtained at the Web site [www.tceq.state.tx.us](http://www.tceq.state.tx.us).
- TCEQ LPST Database Query Results obtained at the Web site [www.tceq.state.tx.us](http://www.tceq.state.tx.us).
- Texas State Library and Archives Commission, Sanborn Maps, 1885, 1889, 1894, 1899, 1904, 1909, 1915, 1931, and 1947.  
<http://www.texshare.edu/marshallpubliclibrary/index.php3>
- U.S. Army 90<sup>th</sup> Regional Support Command (RSC). *Asbestos Building Survey, Marshall U.S. Army Reserve Center, Marshall, Texas.* July 1999.
- U.S. Army 90<sup>th</sup> RSC. *Lead Based Paint Inspection, Marshall USAR Center, Marshall, Texas.* July 2003.
- U.S. Army 90<sup>th</sup> RSC. *Memorandum, Results of Radon Testing, Marshall U.S. Army Reserve Center, Marshall, Texas.* August 1994.
- U.S. Army Center for Health Promotion and Preventive Medicine. *Polychlorinated Biphenyls (PCB) Assessment No. 37-08-5615-97 (for 90<sup>th</sup> Regional Support Command).* September 30, 1997.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Chemical Inventory.* July 26, 2006.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Pest Management Plan.* April, 2005.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Facility Closure Plan.* April 1, 2006.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Final Submittals Presented in Connection with Replace Floor Tile and Windows, American Asbestos, Inc.* December 1997.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Repair Vehicle Wash Facility Scope of Work.* September 9, 1999.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Spill Notification Form.* December 1, 2005.
- U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *UST Registration Form.* January 7, 1997.

- U.S. Department of Agriculture, National Resources Conservation Service, *Web Soil Survey*. <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.
- U.S. Environmental Protection Agency Map of Radon Zones, <http://www.epa.gov/radon/zonemap.html>
- U.S. Fish and Wildlife Service, Endangered Species List, Southwest Region Ecological Services, Harrison County, Texas. <http://www.fws.gov/ifw2es/endangeredspecies/lists/ListSpecies.cfm>
- U.S. Fish and Wildlife Service, National Wetlands Inventory. <http://www.fws.gov/nwi/>.

#### **AGENCIES CONTACTED**

- City of Marshall Department of Planning and Community Development
- City of Marshall Historical Society
- City of Marshall Public Library
- Harrison County Tax Assessor
- Harrison County Soil and Water Conservation District

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**Figures**

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Figure 4	1978 Topographic Map
Figure 5	1947 Aerial Photograph
Figure 6	1963 Aerial Photograph
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Figure 9	1995 Aerial Photograph
Figure 10	2004 Aerial Photograph
Figure 11	FEMA Flood Plain Map

**Appendix B**  
**Site Reconnaissance Photographs**

**Appendix C**  
**Chain-of-Title Report**

**Appendix D**  
**Previous Environmental Reports**

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**PREVIOUS ENVIRONMENTAL REPORTS**

1. ECCI. *Environmental Baseline Survey* of Marshall USAR Center. February 2006.
2. EnSafe Inc. *Oil-Water Separator Evaluation*. May 5, 2000.
3. Parsons Engineering Science, Inc. *Archaeological Assessment and Reconnaissance of the 90<sup>th</sup> Regional Support Command Facilities in Texas*. February 1998.
4. Parsons Engineering Science, Inc. *Historic Architectural Resources Assessment of the 90<sup>th</sup> Regional Support Command Facilities in Texas*. February 1998.
5. Parsons Engineering Science, Inc. *Management Summary Cultural Resources Assessment of 90<sup>th</sup> Regional Support Command Facilities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas*. February 1998.
6. U.S. Army 90<sup>th</sup> Regional Support Command (RSC). *Asbestos Building Survey, Marshall U.S. Army Reserve Center, Marshall, Texas*. July 1999.
7. U.S. Army 90<sup>th</sup> RSC. *Lead Based Paint Inspection, Marshall USAR Center, Marshall, Texas*. July 2003.
8. U.S. Army 90<sup>th</sup> RSC. *Memorandum, Results of Radon Testing, Marshall U.S. Army Reserve Center, Marshall, Texas*. August 1994.
9. U.S. Army Center for Health Promotion and Preventive Medicine. *Polychlorinated Biphenyls (PCB) Assessment No. 37-08-5615-97 (for 90<sup>th</sup> Regional Support Command)*. September 30, 1997.
10. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Chemical Inventory*. July 26, 2006.
11. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Pest Management Plan*. April 2005.
12. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Facility Closure Plan*. April 1, 2006.
13. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Final Submittals Presented in Connection with Replace Floor Tile and Windows, American Asbestos, Inc.* December 1997.
14. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Repair Vehicle Wash Facility Scope of Work*. September 9, 1999.
15. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *Spill Notification Form*. December 1, 2005.

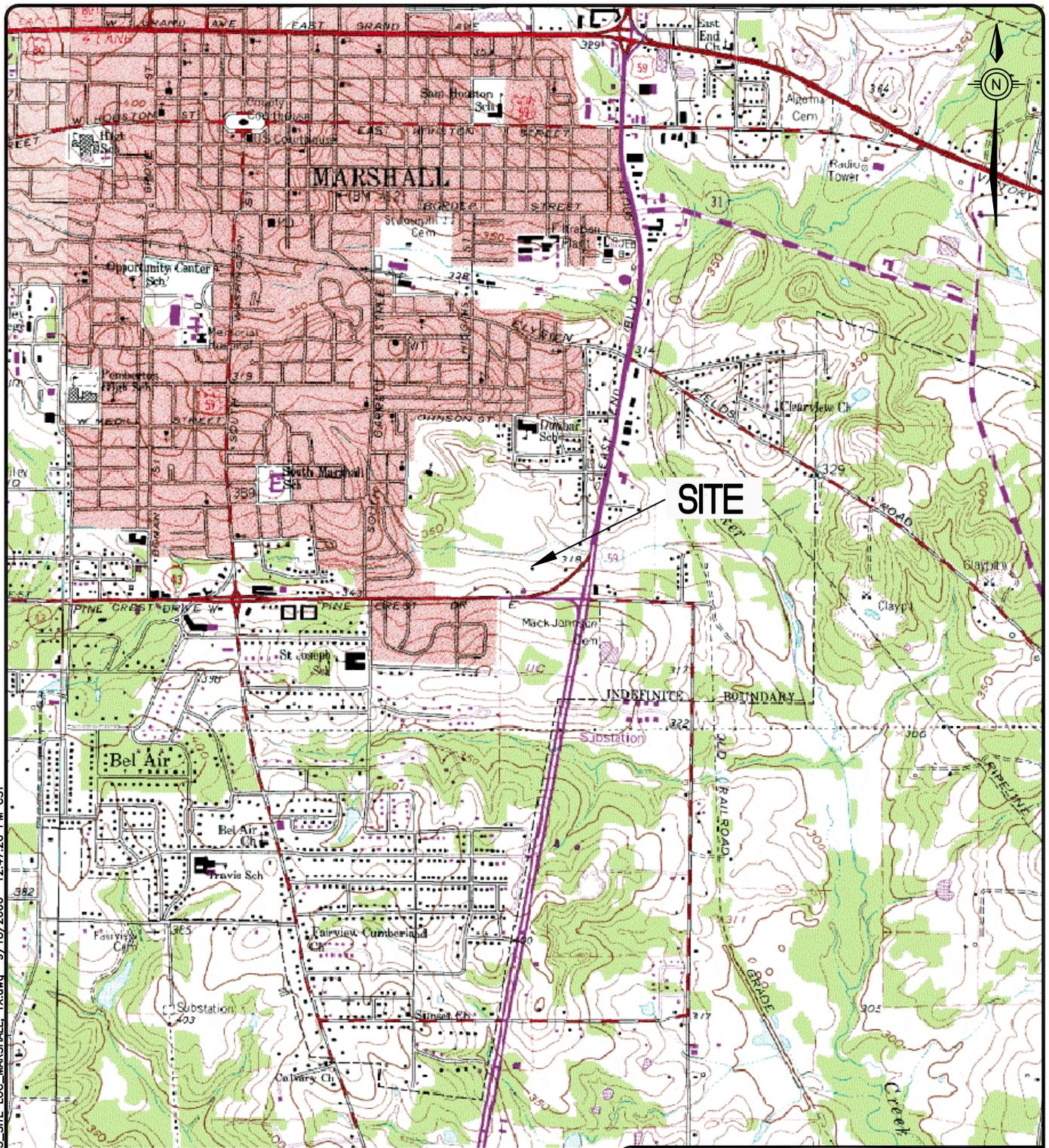
16. U.S. Army Reserve Center, Detachment 1, 952<sup>nd</sup> Engineering Company, Marshall, Texas. *UST Registration Form*. January 7, 1997.

**Appendix E**  
**Regulatory Database Search Reports**

**Appendix A**  
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- Figure 6 1963 Aerial Photograph
- Figure 7 1984 Aerial Photograph
- Figure 8 1990 Aerial Photograph
- Figure 9 1995 Aerial Photograph
- Figure 10 2004 Aerial Photograph
- Figure 11 FEMA Flood Plain Map

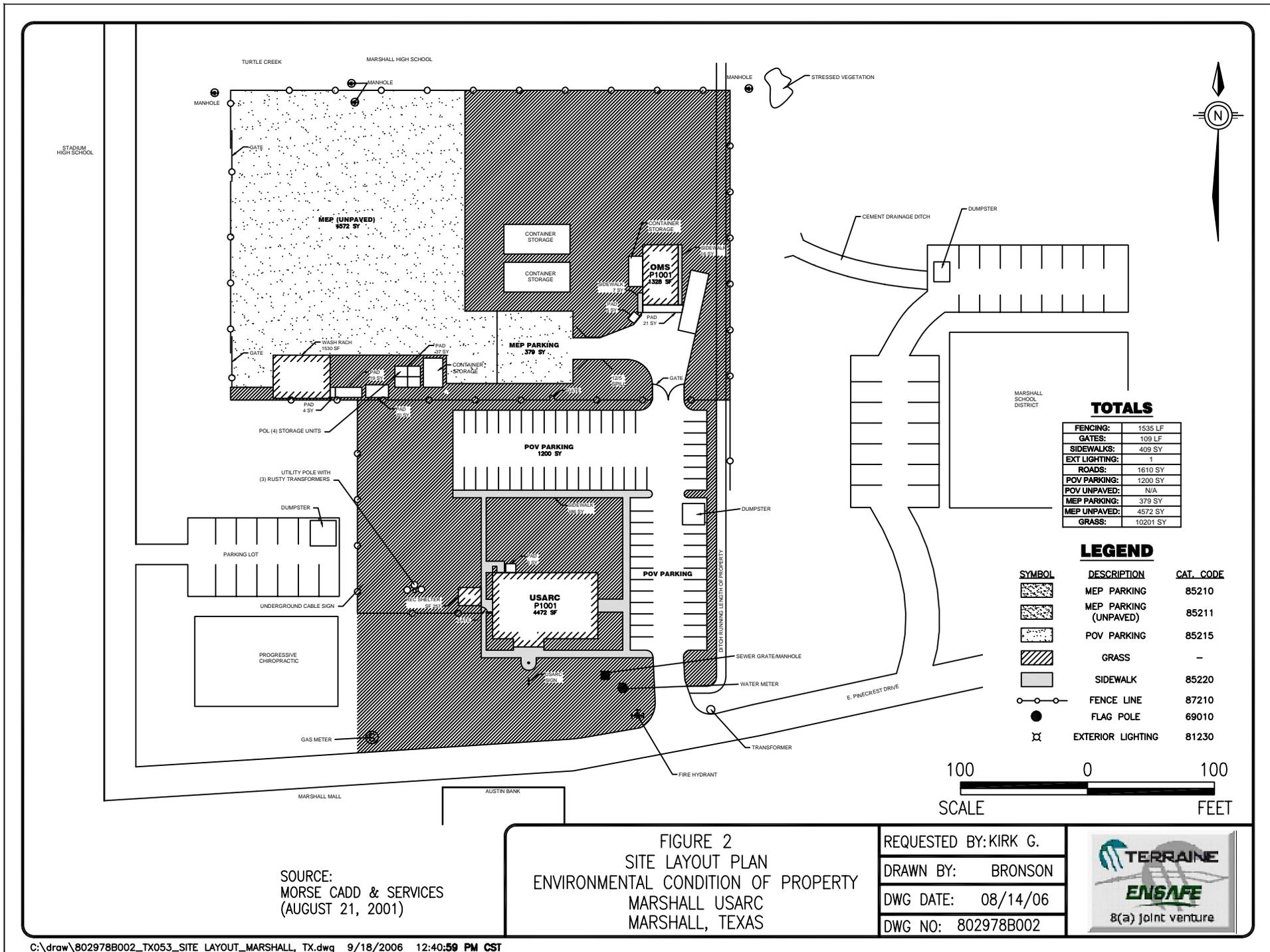


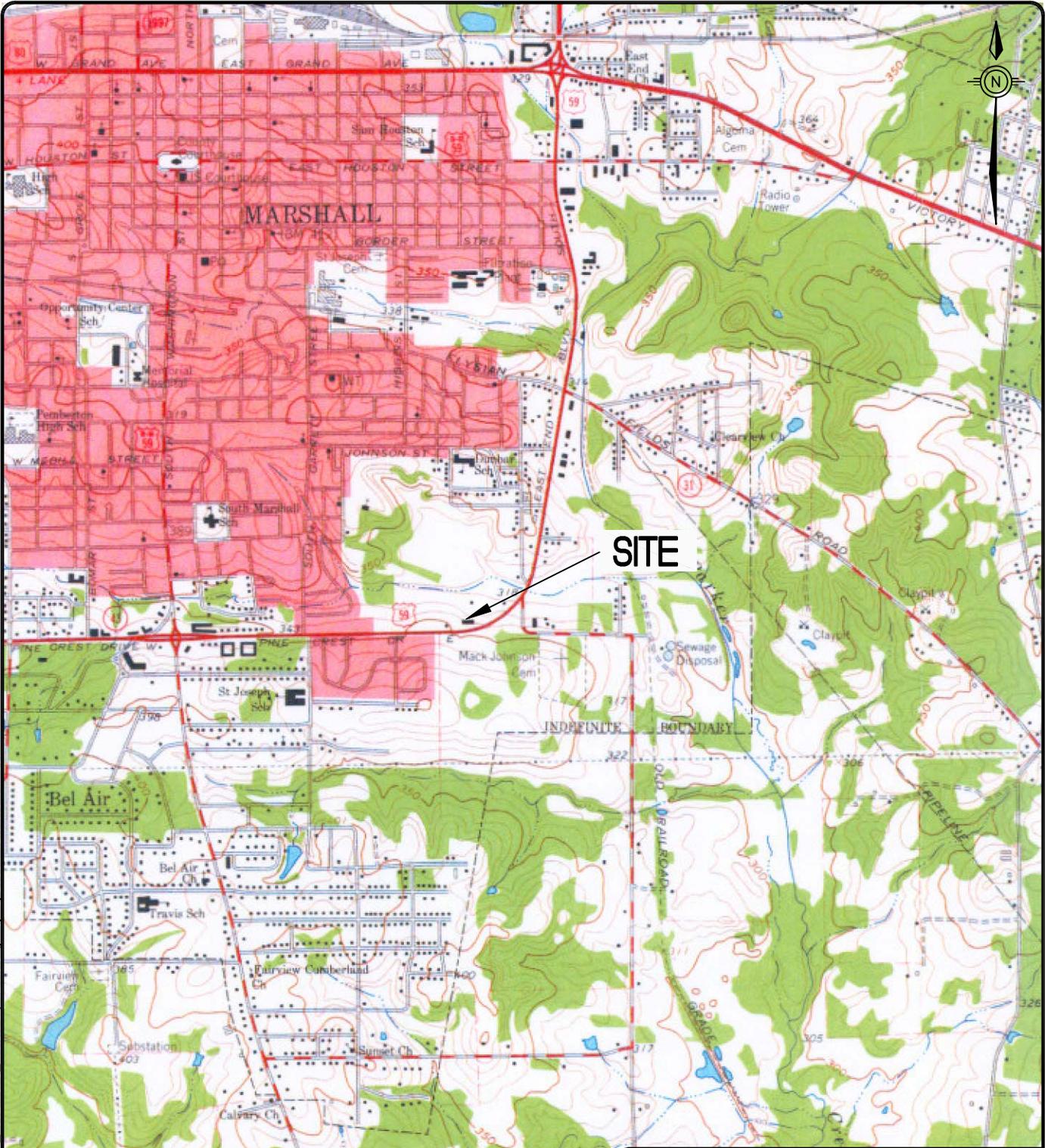
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MAP SOURCE:  
U.S.G.S. 7.5 MINUTE QUADRANGLE  
MARSHALL EAST, TEXAS 1978

<p><b>FIGURE 1</b> GENERAL SITE LOCATION MAP ENVIRONMENTAL CONDITION OF PROPERTY MARSHALL USARC MARSHALL, TEXAS</p>	
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<p>DRAWN BY: BRONSON</p>	
<p>DWG DATE: 08/14/06</p>	
<p>DWG NO: 802978B001</p>	





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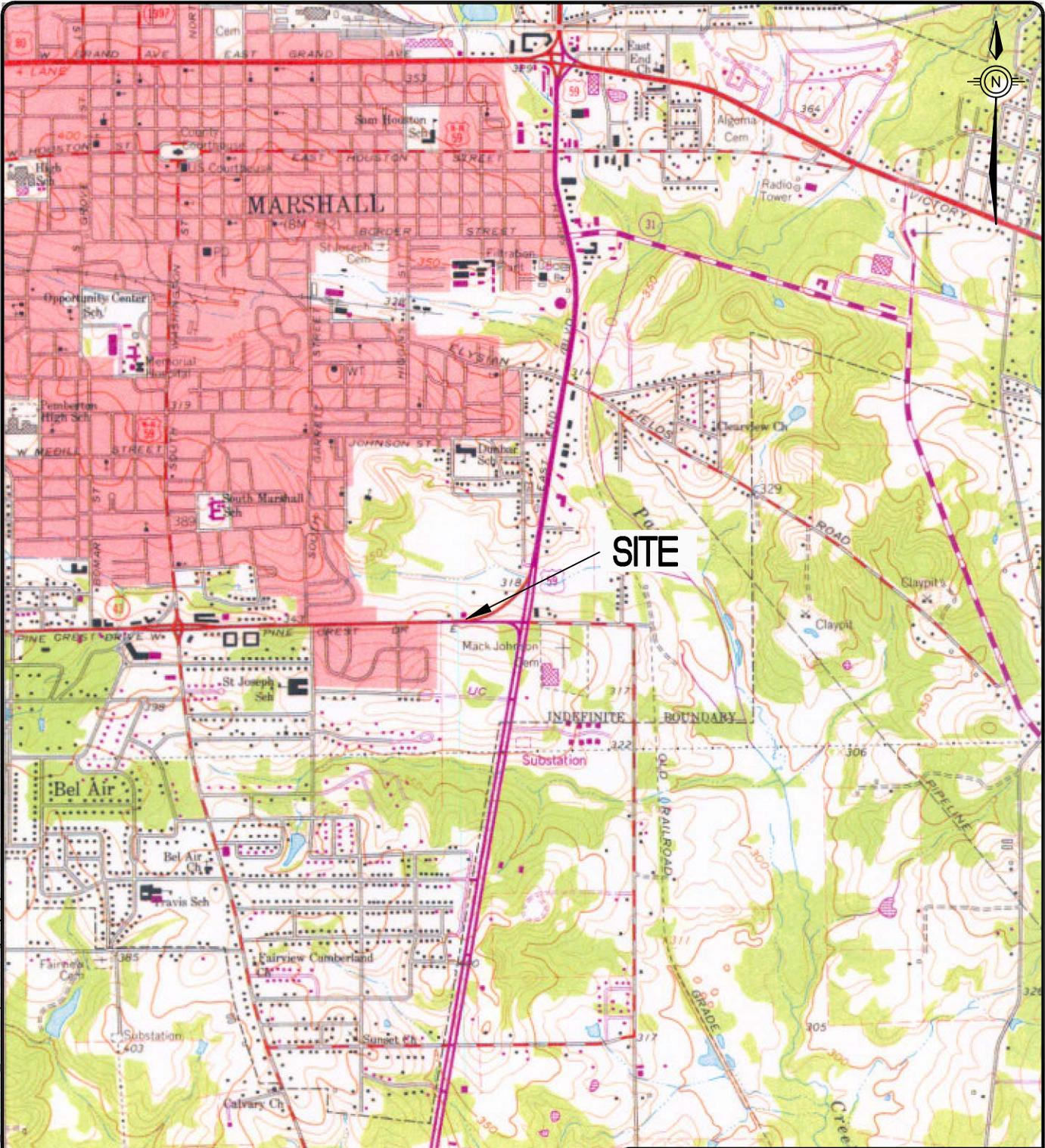


FIGURE 3  
1962 TOPOGRAPHIC MAP  
ENVIRONMENTAL CONDITION OF PROPERTY  
MARSHALL USARC  
MARSHALL, TEXAS

MAP SOURCE:  
U.S.G.S. 7.5 MINUTE QUADRANGLE  
ENVIRONMENTAL DATA RESOURCES, INC.  
MARSHALL EAST, TEXAS

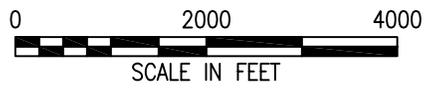
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DRAWN BY: BRONSON  
DWG DATE: 09/18/06  
DWG NO: 802978B354





**SITE**

**FIGURE 4**  
 1978 TOPOGRAPHIC MAP  
 ENVIRONMENTAL CONDITION OF PROPERTY  
 MARSHALL USARC  
 MARSHALL, TEXAS

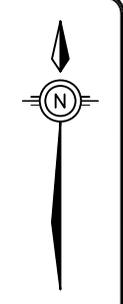


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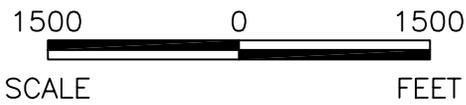
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**SITE**



SOURCE:  
ENVIRONMENTAL DATA RESOURCES, INC.

FIGURE 5  
1947 AERIAL PHOTOGRAPH  
ENVIRONMENTAL CONDITION OF PROPERTY  
MARSHALL USARC  
MARSHALL, TEXAS

REQUESTED BY: KIRK G.

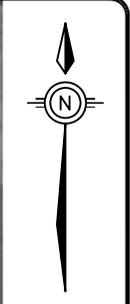
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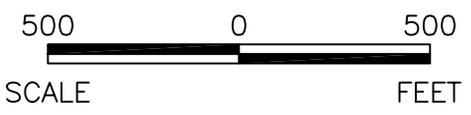


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**SITE**

SH 43



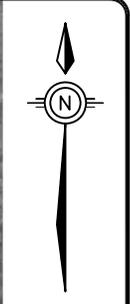
SOURCE:  
ENVIRONMENTAL DATA RESOURCES, INC.

FIGURE 6  
1963 AERIAL PHOTOGRAPH  
ENVIRONMENTAL CONDITION OF PROPERTY  
MARSHALL USARC  
MARSHALL, TEXAS

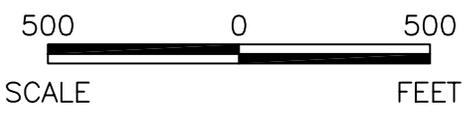
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DWG DATE:	09/18/06
DWG NO:	802978B357



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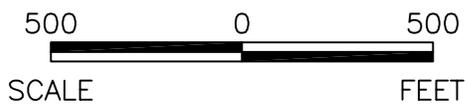
SOURCE:  
ENVIRONMENTAL DATA RESOURCES, INC.

FIGURE 7  
1984 AERIAL PHOTOGRAPH  
ENVIRONMENTAL CONDITION OF PROPERTY  
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MARSHALL, TEXAS

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DWG DATE:	09/18/06
DWG NO:	802978B358



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SOURCE:  
ENVIRONMENTAL DATA RESOURCES, INC.

FIGURE 8  
1990 AERIAL PHOTOGRAPH  
ENVIRONMENTAL CONDITION OF PROPERTY  
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MARSHALL, TEXAS

REQUESTED BY: KIRK G.

DRAWN BY: BRONSON

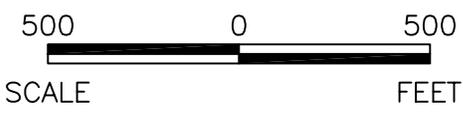
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DWG NO: 802978B359





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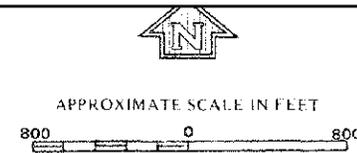
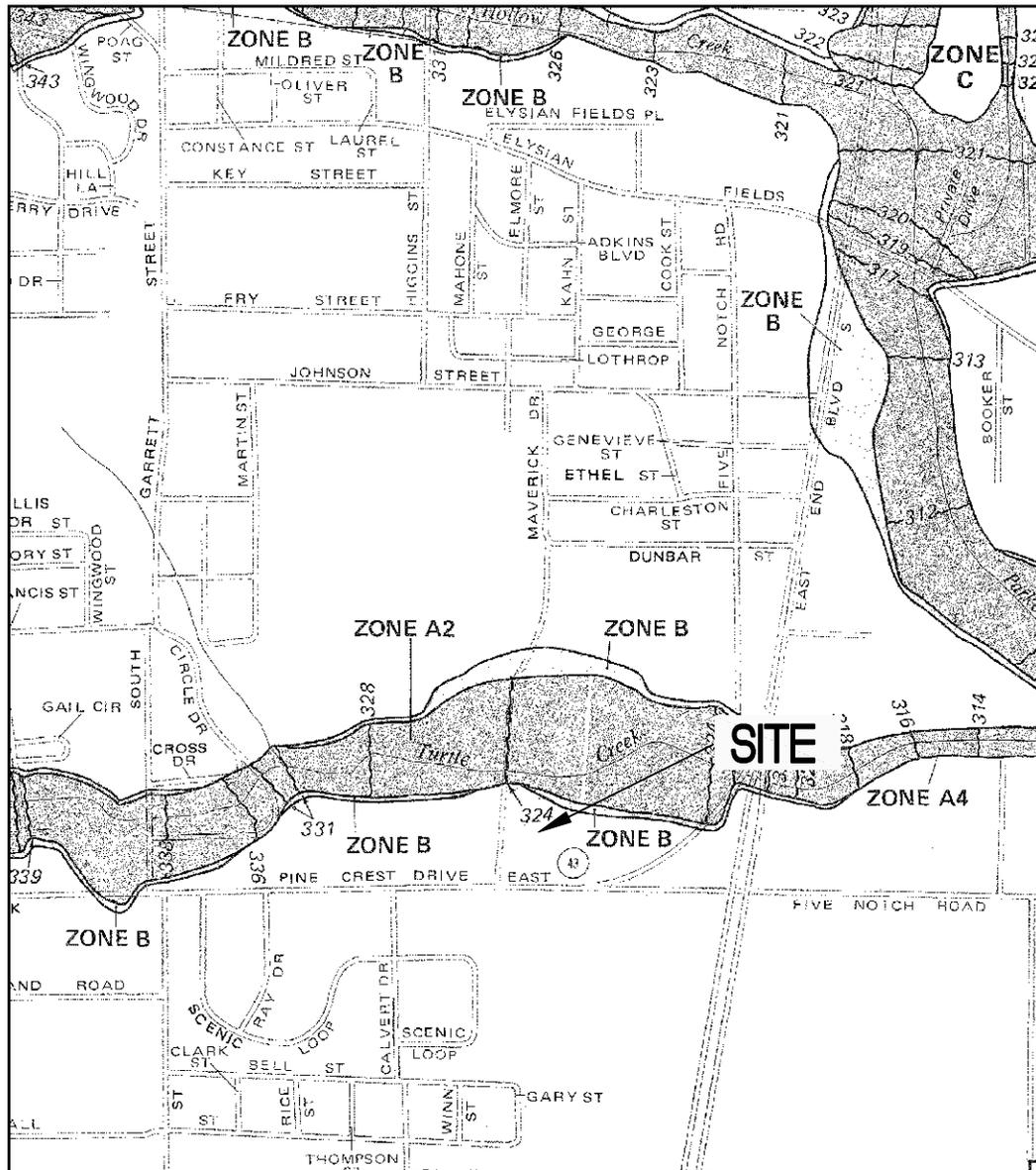
FIGURE 9  
1995 AERIAL PHOTOGRAPH  
ENVIRONMENTAL CONDITION OF PROPERTY  
MARSHALL USARC  
MARSHALL, TEXAS

REQUESTED BY:	KIRK G.
DRAWN BY:	BRONSON
DWG DATE:	09/18/06
DWG NO:	802978B360



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**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM  
FLOOD INSURANCE RATE MAP**

CITY OF  
MARSHALL,  
TEXAS  
HARRISON COUNTY

PANEL 5 OF 15  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**COMMUNITY PANEL NUMBER**  
480319 0005 C

**MAP REVISED:**  
AUGUST 5, 1997



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

SOURCE:  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
(AUGUST 5, 1997)

FIGURE 11  
FEMA FLOOD PLAIN MAP  
ENVIRONMENTAL CONDITION OF PROPERTY  
MARSHALL USARC  
MARSHALL, TEXAS

REQUESTED BY: KIRK G.  
DRAWN BY: BRONSON  
DWG DATE: 09/18/06  
DWG NO: 802978B362



**Appendix B**  
**Site Reconnaissance Photos**

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 1:** View of the north property boundary from the northwest corner of the Marshall USAR Center.



**Photo 2:** View of the west property boundary from the northwest corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 3:** View of the north property boundary from the northeast corner of the Site.



**Photo 4:** View of the east property boundary from the northeast corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 5:** View of the west property boundary from the southwest corner of the Site.



**Photo 6:** View of the south property boundary from the southwest corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 7:** View of the south property boundary from the southeast corner of the Site.



**Photo 8:** View of the east property boundary from the southeast corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 9:** View of the adjacent property to the north from the northwest corner of the Site.



**Photo 10:** View of the adjacent property to the north from the northeast corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 11:** View of adjacent property to the east from the northeast corner of the Site.



**Photo 12:** View of adjacent property to the east from the southeast corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 13:** View of adjacent property to the south from the southeast corner of the Site.



**Photo 14:** View of adjacent property to the south from the southwest corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 15:** View of adjacent property to the south from the southwest corner of the Site.



**Photo 16:** View of adjacent property to the west from the northwest corner of the Site.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 17:** Main entrance of the USAR Center Training Building.



**Photo 18:** The MEP area and construction vehicles are shown while facing south.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 19:** The OMS building and CONEX are shown while facing to the northeast.



**Photo 20:** Three PMTs are on the west side of the Training Building.

Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas



Photo 21: A flammable storage cabinet inside the OMS along the east wall stores containers.



Photo 22: The HVAC system in the mechanical room of the Training Building is shown.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 23:** The Training Building has an arms room.



**Photo 24:** A solid waste disposal container is on the east side of the POV parking area.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 25:** A vehicle wash rack and drain are shown while facing to the west.



**Photo 26:** A spill kit is stored on the south side of the vehicle wash rack.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 27:** An OWS on the south side of the MEP area is shown while facing to the southwest.



**Photo 28:** Another view of the OWS and sump on the south side of the MEP area while facing to the southwest.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 29:** An AST near the OWS on the south side of the MEP area is shown while facing to the southeast.



**Photo 30:** A 2005 spill area in the MEP area near the south gate is shown during the Site reconnaissance with no stains or stressed vegetation.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 31:** A parts washer inside the OMS is along the west wall.



**Photo 32:** Parts washer interior view.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 33:** Stressed vegetation on the adjacent property to the north is near the northeast corner of the Site.



**Photo 34:** Storage containers are shown in the MEP area while facing to the northwest.

Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas



Photo 35: POL and hazardous materials storage sheds are east of the OWS.



Photo 36: An interior view of the POL and hazardous materials storage shed shows various containers.

**Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas**



**Photo 37:** Another view of the interior of the POL and hazardous materials storage shed.



**Photo 38:** Used oil and used oil filters are also stored inside the POL and hazardous materials storage shed.

Marshall USAR Center  
1209 Pinecrest Drive East  
Marshall, Texas



Photo 39: Another view of containers inside the POL and hazardous materials storage shed.



Photo 40: Space heaters are on the west side of the OMS interior.

**Appendix C**  
**Chain-of-Title Report**



2055 East Rio Salado Parkway, Suite 201  
Tempe, Arizona 85281

Phone: (480) 967-6752

Fax Number: (480) 966-9422

Web Site: [www.netronline.com](http://www.netronline.com)

## **HISTORICAL CHAIN OF TITLE REPORT**

**MARSHALL USARC  
1209 PINECREST DRIVE EAST  
MARSHALL, TEXAS**

**Submitted to:**

**TERRAINE, INC.**  
4002 Sutherland Ave  
Knoxville, Tennessee 37919  
(800) 531-1242

**Attention: James Young**

**Project No. N06-4931**

**Wednesday, August 02, 2006**

**NETR- Real Estate Research & Information** hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

All those certain pieces or parcels of land being part of Lot 236, OL SE, BLD Subdivision, with a Geo ID of 03010.05125.00000.000000, situated and lying in the City of Marshall, Harrison County, State of Texas

Assessor's Parcel No: R000039358

## **1. HISTORICAL CHAIN OF TITLE**

1. WARRANTY DEED:  
RECORDED: 09-15-1915  
GRANTOR: Floyd Mann  
GRANTEE: P. Scott Kirby and Julia Kirby, husband and wife  
INSTRUMENT: Bk 127, Pg 64
  
2. WARRANTY DEED:  
RECORDED: 07-03-1927  
GRANTOR: P. Scott Kirby and Julia Kirby, husband and wife  
GRANTEE: G. S. Kirby  
INSTRUMENT: Bk 286, Pg 431
  
3. WARRANTY DEED:  
RECORDED: 04-07-1934  
GRANTOR: G. S. Kirby  
GRANTEE: Lawrence P. Miller and Kaye Miller  
INSTRUMENT: Bk 314, Pg 264
  
4. WARRANTY DEED:  
RECORDED: 10-14-1946  
GRANTOR: Lawrence P. Miller and Kaye Miller  
GRANTEE: James P. Thorn and Bernadine C. Thorn, husband and wife  
INSTRUMENT: Bk 408, Pg 147
  
5. WARRANTY DEED:  
RECORDED: 06-25-1950  
GRANTOR: Bernadine C. Thorn, widow  
GRANTEE: Roger D. Magers and Mary Jo Magers  
INSTRUMENT: Bk 451, Pg 87
  
6. WARRANTY DEED:  
RECORDED: 08-12-1958  
GRANTOR: Rogers D. Magers and Mary Jo Magers  
GRANTEE: United States of America  
INSTRUMENT: Bk 514, Pg 531

## **2. LEASES AND MISCELLANEOUS**

1. No environmental liens, institutional controls or engineering controls were found of record.

### **3. LIMITATION**

This report was prepared for the use of Terraine, Inc., exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

**APPENDIX E**  
**REGULATORY DATABASE SEARCH RESULTS**



**EDR**® Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

**Marshall USARC  
1209 East Pinecrest Drive  
Marshall, TX 75670**

**Inquiry Number: 1717133.2s**

**July 18, 2006**

## **The Standard in Environmental Risk Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

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

### Disclaimer - Copyright and Trademark Notice

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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

1209 EAST PINECREST DRIVE  
MARSHALL, TX 75670

#### COORDINATES

Latitude (North): 32.527800 - 32° 31' 40.1"  
Longitude (West): 94.354400 - 94° 21' 15.8"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 372800.2  
UTM Y (Meters): 3599559.8  
Elevation: 328 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 32094-E3 MARSHALL EAST, TX  
Most Recent Revision: 1978  
  
West Map: 32094-E4 MARSHALL WEST, TX  
Most Recent Revision: 1978

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
MARSHALL USARC 1209 PINECREST DRIVE EAST MARSHALL, TX 75670	RCRA-SQG FINDS	TXR000043711

### 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:

### FEDERAL RECORDS

NPL..... National Priority List

## EXECUTIVE SUMMARY

<b>Proposed NPL</b>	Proposed National Priority List Sites
<b>Delisted NPL</b>	National Priority List Deletions
<b>NPL RECOVERY</b>	Federal Superfund Liens
<b>CERCLIS</b>	Comprehensive Environmental Response, Compensation, and Liability Information System
<b>CERC-NFRAP</b>	CERCLIS No Further Remedial Action Planned
<b>CORRACTS</b>	Corrective Action Report
<b>RCRA-TSDF</b>	Resource Conservation and Recovery Act Information
<b>RCRA-LQG</b>	Resource Conservation and Recovery Act Information
<b>ERNS</b>	Emergency Response Notification System
<b>HMIRS</b>	Hazardous Materials Information Reporting System
<b>US ENG CONTROLS</b>	Engineering Controls Sites List
<b>US INST CONTROL</b>	Sites with Institutional Controls
<b>DOD</b>	Department of Defense Sites
<b>FUDS</b>	Formerly Used Defense Sites
<b>US BROWNFIELDS</b>	A Listing of Brownfields Sites
<b>CONSENT</b>	Superfund (CERCLA) Consent Decrees
<b>ROD</b>	Records Of Decision
<b>UMTRA</b>	Uranium Mill Tailings Sites
<b>ODI</b>	Open Dump Inventory
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
<b>SSTS</b>	Section 7 Tracking Systems
<b>ICIS</b>	Integrated Compliance Information System
<b>PADS</b>	PCB Activity Database System
<b>MLTS</b>	Material Licensing Tracking System
<b>MINES</b>	Mines Master Index File
<b>RAATS</b>	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

<b>SHWS</b>	State Superfund Registry
<b>IOP</b>	Innocent Owner/Operator Program
<b>SWF/LF</b>	Permitted Solid Waste Facilities
<b>CLI</b>	Closed Landfill Inventory
<b>WasteMgt</b>	Commercial Hazardous & Solid Waste Management Facilities
<b>UST</b>	Petroleum Storage Tank Database
<b>AST</b>	Petroleum Storage Tank Database
<b>LIENS</b>	Environmental Liens Listing
<b>DEL SHWS</b>	Deleted Superfund Registry Sites
<b>TX Spills</b>	Spills Database
<b>AUL</b>	Sites with Controls
<b>TX VCP</b>	Voluntary Cleanup Program Database
<b>DRYCLEANERS</b>	Drycleaner Registration Database Listing
<b>BROWNFIELDS</b>	Brownfields Site Assessments
<b>ENF</b>	Notice of Violations Listing
<b>Ind. Haz Waste</b>	Industrial & Hazardous Waste Database
<b>ED AQUIF</b>	Edwards Aquifer Permits
<b>AIRS</b>	Current Emission Inventory Data

### TRIBAL RECORDS

<b>INDIAN RESERV</b>	Indian Reservations
----------------------	---------------------

# EXECUTIVE SUMMARY

**INDIAN UST**..... USTs on Indian Land

## EDR PROPRIETARY RECORDS

**Manufactured Gas Plants**... EDR Proprietary Manufactured Gas Plants

**EDR Historical Auto Stations**EDR Proprietary Historic Gas Stations

**EDR Historical Cleaners**..... EDR Proprietary Historic Dry Cleaners

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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.

## STATE AND LOCAL RECORDS

**LTANKS:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Texas Commission on Environmental Quality's Leaking Petroleum Storage Tank Database.

A review of the LTANKS list, as provided by EDR, and dated 05/04/2006 has revealed that there is 1 LTANKS site within approximately 0.5 miles of the target property.

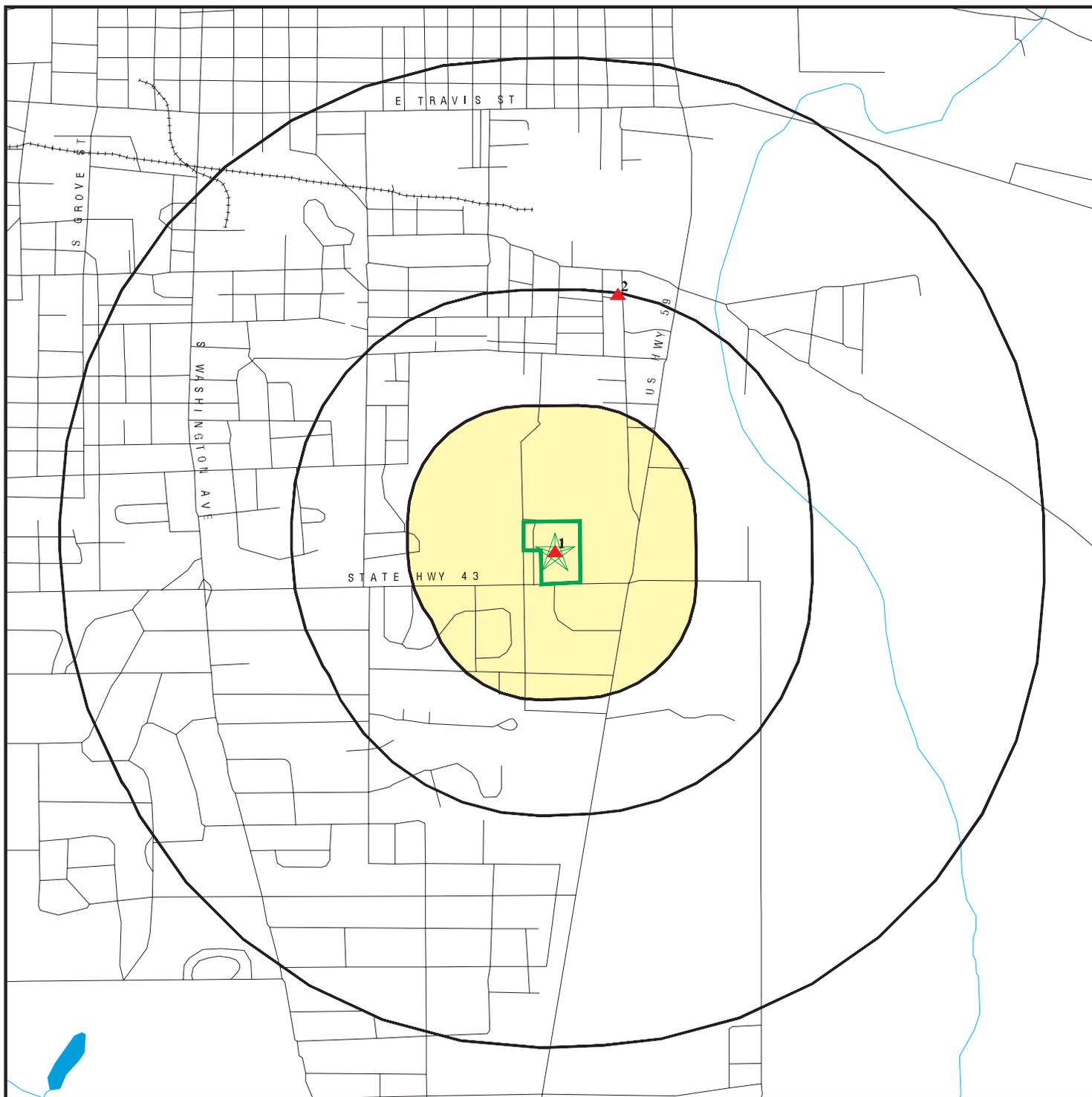
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>MARSHALL WWTP</i></b>	<b><i>FIVE NOTCH RD</i></b>	<b><i>1/4 - 1/2N</i></b>	<b><i>2</i></b>	<b><i>6</i></b>
Status Code: FINAL CONCURRENCE ISSUED, CASE CLOSED				

## EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
MARSHALL CITY OF LANDFILL	CERC-NFRAP
WOLIVARS CORNER	UST
FUGLERS GROCERY & MARKET	UST
RED SIMPSON INC	RCRA-SQG, FINDS
B AND J COLLISION REPAIRS INC	RCRA-SQG, FINDS
ENTERGY POWER VENTURES LP	RCRA-SQG, FINDS

# OVERVIEW MAP - 1717133.2s



-  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
-  Landfill Sites
-  Dept. Defense Sites

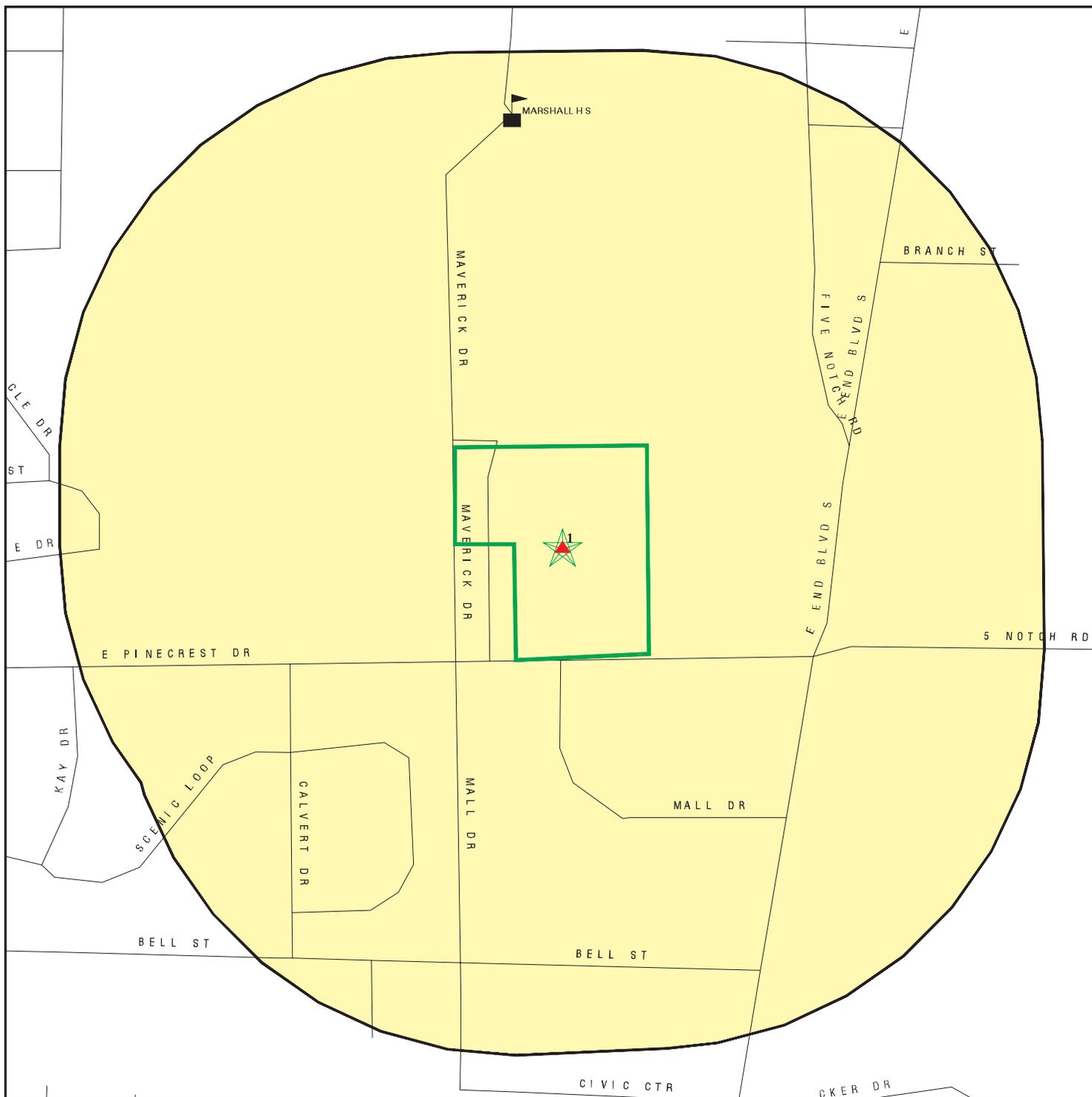
-  Indian Reservations BIA
-  Oil & Gas pipelines

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: Marshall USARC  
 ADDRESS: 1209 East Pinecrest Drive  
 Marshall TX 75670  
 LAT/LONG: 32.5278 / 94.3544

CLIENT: ENSAFE  
 CONTACT: Phil Hardy  
 INQUIRY #: 1717133.2s  
 DATE: July 18, 2006

# DETAIL MAP - 1717133.2s



-  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
-  Landfill Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Oil & Gas pipelines



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: Marshall USARC  
 ADDRESS: 1209 East Pinecrest Drive  
 Marshall TX 75670  
 LAT/LONG: 32.5278 / 94.3544

CLIENT: ENSAFE  
 CONTACT: Phil Hardy  
 INQUIRY #: 1717133.2s  
 DATE: July 18, 2006

## 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
<b><u>FEDERAL RECORDS</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	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
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
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE AND LOCAL RECORDS</u></b>								
State Haz. Waste		1.000	0	0	0	0	NR	0
IOP		TP	NR	NR	NR	NR	NR	0
State Landfill		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
LTANKS		0.500	0	0	1	NR	NR	1
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
TX Spills		TP	NR	NR	NR	NR	NR	0
AUL		0.500	0	0	0	NR	NR	0
TX VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		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
BROWNFIELDS		0.500	0	0	0	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
<b><u>TRIBAL RECORDS</u></b>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations	TP		NR	NR	NR	NR	NR	0
EDR Historical Cleaners	TP		NR	NR	NR	NR	NR	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**1**            **MARSHALL USARC**  
**Target**      **1209 PINECREST DRIVE EAST**  
**Property**    **MARSHALL, TX 75670**

**RCRA-SQG**    **1005418615**  
**FINDS**        **TXR000043711**

**Actual:**  
**329 ft.**

RCRAInfo:  
 Owner:            90TH REGIONAL SUPPORT COMMAND  
                          (501) 771-7992  
 EPA ID:            TXR000043711  
 Contact:          JAMES WHEELER  
                          (501) 771-7992  
 Classification:    Conditionally Exempt Small Quantity Generator  
 TSDF Activities:   Not reported  
 Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site:  
 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.

**2**            **MARSHALL WWTP**  
**North**      **FIVE NOTCH RD**  
**1/4-1/2**     **MARSHALL, TX 75670**  
**2625 ft.**

**UST**        **U001277118**  
**LTANKS**    **N/A**

**Relative:**  
**Higher**

LTANKS:  
 Facility ID:        0045526  
 Facility Location: 5 NOTCH ROAD  
 Reported Date:    1/28/1993  
 Entered Date:     3/11/1993  
 RPR Coordinator: RPR  
 Region:            05  
 Region City ID:   TYLER  
 LPST Id:           106053  
 Responsible Party CITY OF MARSHALL  
 RP Contact:        LARRY MICHELS  
 RP Telephone:     903/935-4510  
 RP Address:        PO BOX 698  
                          MARSHALL, TX 75670  
 Priority:            MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP  
**Status:**            **FINAL CONCURRENCE ISSUED, CASE CLOSED**

**UST:**

Facility ID:	0045526	Tank Installer:	Not reported
Tank ID:	1	Installation Date:	01/01/1988
Tank Emptied:	No	Status Date:	01/12/1993
Capacity:	550	Unit ID:	00119231
Tank Material of Construction:	Fiberglass-Reinforced Plastic (FRP)		
Pipe Material of Construction:	Steel		
Other Materials of Construction:	Not reported		
Tank Status:	Removed from the Ground		
Tank Construction & Containment:	Not reported		
Pipe Construction & Containment:	Not reported		
Other Construction & Containment:	Not reported		
Compartment Substance Stored:	Diesel		
Compartment Other Substance:	Not reported		
Tank Release Detection Method:	Not reported		
Tank Release Method Detection II:	Not reported		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**MARSHALL WWTP (Continued)**

**U001277118**

Tank Release Method Detection III:	Not reported
Other Tank Release Method Detection:	None
Tank Release Detection Variance :	No Variance
Pipe Release Detection Method:	Not reported
Other Pipe Release Detection Method :	None
Pipe Release Detection Variance :	No Variance
Spill and Overfill Protection:	Not reported
Tank Corrosion Protection:	Not reported
Pipe Corrosion Protection:	Not reported
Other Corrosion Protection:	None
Vapor Recovery Equipment Status:	Not reported
Equipment Installed Date:	Not reported
Equipment Installer:	Not reported
Contractor Registration Number:	Not reported
Tank Registration Date:	02/09/1988
Installer License Number:	Not reported
Operator Name:	Not reported
Operator Telephone number:	Not reported
Operator Address:	
Operator Address building:	Not reported
Contact Operator Name:	
Contact Operator title:	Not reported
Contact Operator Phone:	Not reported
Self-Certification date:	Not reported
Signature Name:	Not reported
Signature Title Name:	Not reported
Signature Type Text:	Not reported
Certification Submitted Type:	Not reported
Registration Self-Certification Flag:	Not reported
Fees Self-Certification Flag:	Not reported
Financial Assurance Self-Certification flag:	Not reported
Technical standards Self-Certification flag:	Not reported
UST Delivery Certificate Expiration Date:	Not reported
Compartment letter:	Not reported
Financial Responsibility Type:	Not reported
Corrective Action Met Flag:	Not reported
Third Party Met Flag:	Not reported
Financial Assurance Beginning Date:	Not reported
Piping Design & Ext. Containment 3 :	Not reported
Piping Design & Ext. Containment 4 :	Not reported
Type of Piping :	Not reported
Internal Tank Lining Date :	00/00/0000
Pipe Connectors and Valves 1 :	Not reported
Pipe Connectors and Valves 2 :	Not reported
Pipe Connectors and Valves 3 :	Not reported
Other Tank Corrosion Protection Text:	None
Tank Corrosion Protection Variance :	No Variance
Pipe Corrosion Protection 3 :	Not reported
Pipe Corrosion Protection Variance :	No Variance
Stage 2 Vapor Recry Equipment Status :	Not reported
Stage 1 Equipment Installed Date :	Not reported
Tank Tested :	Tested
Compartment Capacity :	0000000
Owner ID :	10043
Owner Name :	CITY OF MARSHALL
Owner Address :	MARSHALL, TX 75671
Owner Contact Telephone :	903-935-4510

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation    Site

MAP FINDINGS

Database(s)    EDR ID Number  
EPA ID Number

**MARSHALL WWTP (Continued)**

**U001277118**

Owner Type : L  
Owner Amendment Reason Code : 035  
Owner Amendment Date : 04/01/09  
Owner Tax ID : Not reported  
Number of Facilities reported by Owner : 0004  
Mail Undeliverable : Not reported  
Bankruptcy In Effect : Not reported  
# Of Underground Storage Tanks : 0009  
# Of Aboveground Storage Tanks : 0001  
Operator Effective Date : Not reported  
Operator Type : L  
Owner Contact Name:  
Date Registration Form Received : 09/88/02  
Facility Type : None of the above, or unidentified  
Name of Facility Manager : BILL GIBSON  
Title of Facility Manager : TREATMENT MANAGER  
Facility Manager Phone : 9039354510  
Sign Name on Registration Form : BILL GIBSON  
Title of Signer of Registration Form : TREATMENT MANAGER  
Date of Signature on Registration Form : 020388  
Number of USTs: 0001  
Number of ASTs: 0000  
Facility PO Box : Not reported  
Owner PO Box : PO BOX 698  
Region Number : 05  
Facility in Ozone non-attainment area : Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MARSHALL	1001233800	RED SIMPSON INC	6741 HWY 154	75670	RCRA-SQG, FINDS
MARSHALL	U001274777	WOLIVARS CORNER	HWY 2208	75670	UST
MARSHALL	U003407219	FUGLERS GROCERY & MARKET	RT 5 HWY 154	75670	UST
MARSHALL	1004784744	B AND J COLLISION REPAIRS INC	HWY 59 9M N OF MARSHALL	75670	RCRA-SQG, FINDS
MARSHALL	1003874591	MARSHALL CITY OF LANDFILL	5 NOTCH RD S OF I-20	75670	CERC-NFRAP
MARSHALL	1006811778	ENTERGY POWER VENTURES LP	12039 STATE HIGHWAY 43 S	75672	RCRA-SQG, FINDS

# 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.

## **FEDERAL RECORDS**

### **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: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	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 8  
Telephone: 303-312-6774

EPA Region 4  
Telephone 404-562-8033

### **Proposed NPL: Proposed National Priority List Sites**

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

### **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: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

### **NPL RECOVERY: 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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/23/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/22/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

## **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: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/23/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

## **CORRACTS:** Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 05/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: Quarterly

## **RCRA:** Resource Conservation and Recovery Act Information

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 03/09/2006	Source: EPA
Date Data Arrived at EDR: 04/27/2006	Telephone: 800-424-9346
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Quarterly

## **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: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/26/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **HMIRS:** Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/14/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

## **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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	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: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	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: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

## **US BROWNFIELDS:** A Listing of Brownfields Sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/26/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2006	Telephone: 202-566-2777
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/12/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Semi-Annually

## **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: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 03/13/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2006
	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: 04/13/2006	Source: EPA
Date Data Arrived at EDR: 04/28/2006	Telephone: 703-416-0223
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/06/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/02/2006
	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: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 06/21/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Varies

## **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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**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: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 06/22/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/18/2006
	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	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/16/2006
	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: 03/29/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Date of Government Version: 03/31/2006	Source: EPA
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

**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: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/16/2006
	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: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/07/2006
	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: 04/12/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/26/2006	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Quarterly

## **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: 02/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/29/2006	Telephone: 303-231-5959
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 09/25/2006
	Data Release Frequency: Semi-Annually

## **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: 04/27/2006	Source: EPA
Date Data Arrived at EDR: 05/02/2006	Telephone: N/A
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/03/2006
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/04/2006
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2003  
Date Data Arrived at EDR: 06/17/2005  
Date Made Active in Reports: 08/04/2005  
Number of Days to Update: 48

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 06/30/2006  
Next Scheduled EDR Contact: 09/11/2006  
Data Release Frequency: Biennially

## STATE AND LOCAL RECORDS

### **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: 04/07/2006  
Date Data Arrived at EDR: 05/19/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 19

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-5680  
Last EDR Contact: 07/14/2006  
Next Scheduled EDR Contact: 10/09/2006  
Data Release Frequency: Semi-Annually

### **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: 05/16/2006  
Date Data Arrived at EDR: 05/17/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 21

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-5894  
Last EDR Contact: 05/15/2006  
Next Scheduled EDR Contact: 08/07/2006  
Data Release Frequency: Quarterly

### **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: 06/01/2006  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/12/2006  
Number of Days to Update: 40

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-6706  
Last EDR Contact: 05/23/2006  
Next Scheduled EDR Contact: 08/21/2006  
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: 05/01/2006  
Next Scheduled EDR Contact: 07/31/2006  
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: 11/01/2003  
Date Data Arrived at EDR: 02/17/2004  
Date Made Active in Reports: 03/04/2004  
Number of Days to Update: 16

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2920  
Last EDR Contact: 05/04/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **LTANKS:** 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: 05/04/2006  
Date Data Arrived at EDR: 05/08/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 30

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2200  
Last EDR Contact: 04/26/2006  
Next Scheduled EDR Contact: 07/24/2006  
Data Release Frequency: Quarterly

## **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: 04/26/2006  
Date Data Arrived at EDR: 05/08/2006  
Date Made Active in Reports: 05/22/2006  
Number of Days to Update: 14

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2160  
Last EDR Contact: 04/26/2006  
Next Scheduled EDR Contact: 07/24/2006  
Data Release Frequency: Quarterly

## **AST:** Petroleum Storage Tank Database

Registered Aboveground Storage Tanks.

Date of Government Version: 04/26/2006  
Date Data Arrived at EDR: 05/08/2006  
Date Made Active in Reports: 05/25/2006  
Number of Days to Update: 17

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2160  
Last EDR Contact: 04/26/2006  
Next Scheduled EDR Contact: 07/24/2006  
Data Release Frequency: Quarterly

## **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: 01/27/2006  
Date Data Arrived at EDR: 01/27/2006  
Date Made Active in Reports: 02/13/2006  
Number of Days to Update: 17

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2209  
Last EDR Contact: 07/11/2006  
Next Scheduled EDR Contact: 09/18/2006  
Data Release Frequency: Varies

## **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: 04/07/2006  
Date Data Arrived at EDR: 04/26/2006  
Date Made Active in Reports: 05/12/2006  
Number of Days to Update: 16

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-0666  
Last EDR Contact: 07/14/2006  
Next Scheduled EDR Contact: 10/09/2006  
Data Release Frequency: Quarterly

## **SPILLS:** Spills Database

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 04/13/2006  
Date Made Active in Reports: 05/12/2006  
Number of Days to Update: 29

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-0983  
Last EDR Contact: 06/19/2006  
Next Scheduled EDR Contact: 09/18/2006  
Data Release Frequency: Quarterly

## **AUL:** Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2006  
Date Data Arrived at EDR: 05/02/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 36

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-5891  
Last EDR Contact: 05/02/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Varies

**VCP: 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: 04/01/2006  
Date Data Arrived at EDR: 05/02/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 36

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-5891  
Last EDR Contact: 05/02/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Quarterly

**VCP: 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: 04/10/2006  
Date Data Arrived at EDR: 05/02/2006  
Date Made Active in Reports: 05/12/2006  
Number of Days to Update: 10

Source: Railroad Commission of Texas  
Telephone: 512-463-6969  
Last EDR Contact: 05/02/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Varies

**DRYCLEANERS: Drycleaner Registration Database Listing**

A listing of drycleaning facilities.

Date of Government Version: 04/04/2006  
Date Data Arrived at EDR: 04/04/2006  
Date Made Active in Reports: 05/12/2006  
Number of Days to Update: 38

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-2160  
Last EDR Contact: 07/03/2006  
Next Scheduled EDR Contact: 10/02/2006  
Data Release Frequency: Varies

**BROWNFIELDS: Brownfields Site Assessments**

Brownfield site assessments that are being cleaned under EPA grant monies.

Date of Government Version: 04/01/2006  
Date Data Arrived at EDR: 05/02/2006  
Date Made Active in Reports: 05/12/2006  
Number of Days to Update: 10

Source: TCEQ  
Telephone: 512-239-5872  
Last EDR Contact: 05/02/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Semi-Annually

**ENFORCEMENT: Notice of Violations Listing**

A listing of permit violations.

Date of Government Version: 06/21/2006  
Date Data Arrived at EDR: 06/27/2006  
Date Made Active in Reports: 07/12/2006  
Number of Days to Update: 15

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-6012  
Last EDR Contact: 06/05/2006  
Next Scheduled EDR Contact: 09/04/2006  
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: 12/31/2004  
Date Data Arrived at EDR: 05/16/2005  
Date Made Active in Reports: 06/09/2005  
Number of Days to Update: 24

Source: Texas Commission on Environmental Quality  
Telephone: 512-239-0985  
Last EDR Contact: 05/01/2006  
Next Scheduled EDR Contact: 07/31/2006  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 05/10/2006  
Date Data Arrived at EDR: 05/11/2006  
Date Made Active in Reports: 06/07/2006  
Number of Days to Update: 27

Source: Texas Commission on Environmental Quality, Austin Region  
Telephone: 512-339-2929  
Last EDR Contact: 05/08/2006  
Next Scheduled EDR Contact: 07/24/2006  
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: 08/31/2005  
Date Data Arrived at EDR: 01/25/2006  
Date Made Active in Reports: 03/08/2006  
Number of Days to Update: 42

Source: Texas Commission on Environmental Quality  
Telephone: N/A  
Last EDR Contact: 07/14/2006  
Next Scheduled EDR Contact: 10/09/2006  
Data Release Frequency: Semi-Annually

## **TRIBAL RECORDS**

### **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: 12/31/2004  
Date Data Arrived at EDR: 02/08/2005  
Date Made Active in Reports: 08/04/2005  
Number of Days to Update: 177

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 05/12/2006  
Next Scheduled EDR Contact: 08/07/2006  
Data Release Frequency: Semi-Annually

### **INDIAN UST:** USTs on Indian Land

Date of Government Version: 12/14/2005  
Date Data Arrived at EDR: 12/14/2005  
Date Made Active in Reports: 01/23/2006  
Number of Days to Update: 40

Source: Environmental Protection Agency, Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 05/23/2006  
Next Scheduled EDR Contact: 08/21/2006  
Data Release Frequency: Varies

## **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

### **EDR Historical Auto Stations:** EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Varies

## **EDR Historical Cleaners:** EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

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: Varies

## **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: 12/31/2004  
Date Data Arrived at EDR: 02/17/2006  
Date Made Active in Reports: 04/07/2006  
Number of Days to Update: 49

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 06/14/2006  
Next Scheduled EDR Contact: 09/11/2006  
Data Release Frequency: Annually

### **NJ MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2004  
Date Data Arrived at EDR: 04/24/2006  
Date Made Active in Reports: 05/02/2006  
Number of Days to Update: 8

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/05/2006  
Next Scheduled EDR Contact: 10/02/2006  
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: 05/02/2006  
Date Data Arrived at EDR: 05/31/2006  
Date Made Active in Reports: 06/27/2006  
Number of Days to Update: 27

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/31/2006  
Next Scheduled EDR Contact: 08/28/2006  
Data Release Frequency: Annually

### **PA MANIFEST:** Manifest Information

Hazardous waste manifest information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 05/04/2006  
Date Made Active in Reports: 06/06/2006  
Number of Days to Update: 33

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/12/2006  
Next Scheduled EDR Contact: 09/11/2006  
Data Release Frequency: Annually

## **RI MANIFEST:** Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005  
Date Data Arrived at EDR: 05/09/2006  
Date Made Active in Reports: 05/24/2006  
Number of Days to Update: 15

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 06/19/2006  
Next Scheduled EDR Contact: 09/18/2006  
Data Release Frequency: Annually

## **VT MANIFEST:** Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2004  
Date Data Arrived at EDR: 03/17/2006  
Date Made Active in Reports: 05/17/2006  
Number of Days to Update: 61

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 05/15/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: Annually

## **WI MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 03/17/2006  
Date Made Active in Reports: 05/02/2006  
Number of Days to Update: 46

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 07/11/2006  
Next Scheduled EDR Contact: 10/09/2006  
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: PennWell Corporation  
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**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 1999 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<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

MARSHALL USARC  
1209 EAST PINECREST DRIVE  
MARSHALL, TX 75670

### TARGET PROPERTY COORDINATES

Latitude (North):	32.52780 - 32° 31' 40.1"
Longitude (West):	94.3544 - 94° 21' 15.8"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	372800.2
UTM Y (Meters):	3599559.8
Elevation:	328 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	32094-E3 MARSHALL EAST, TX
Most Recent Revision:	1978

West Map:	32094-E4 MARSHALL WEST, TX
Most Recent Revision:	1978

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).

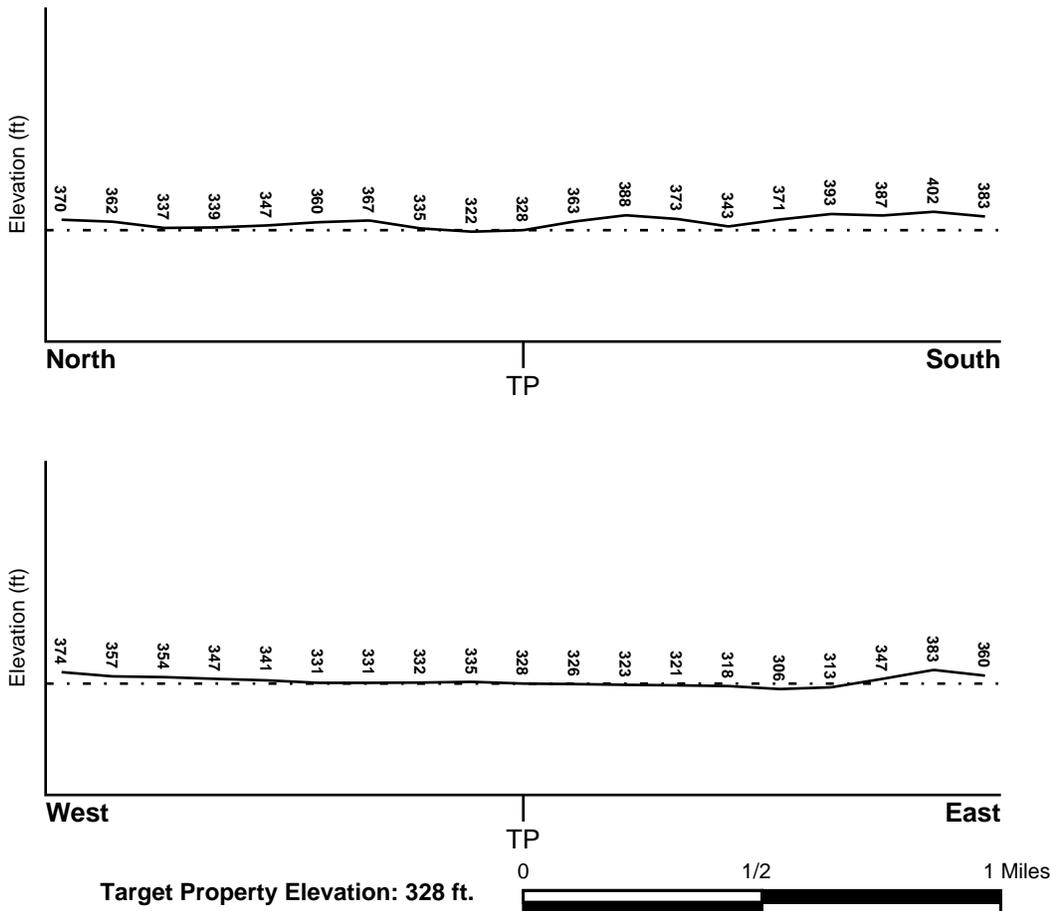
## TOPOGRAPHIC INFORMATION

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 NNE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

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

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

## **FEMA FLOOD ZONE**

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
HARRISON, TX	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
MARSHALL EAST	Not Available

## 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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

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

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

#### **ROCK STRATIGRAPHIC UNIT**

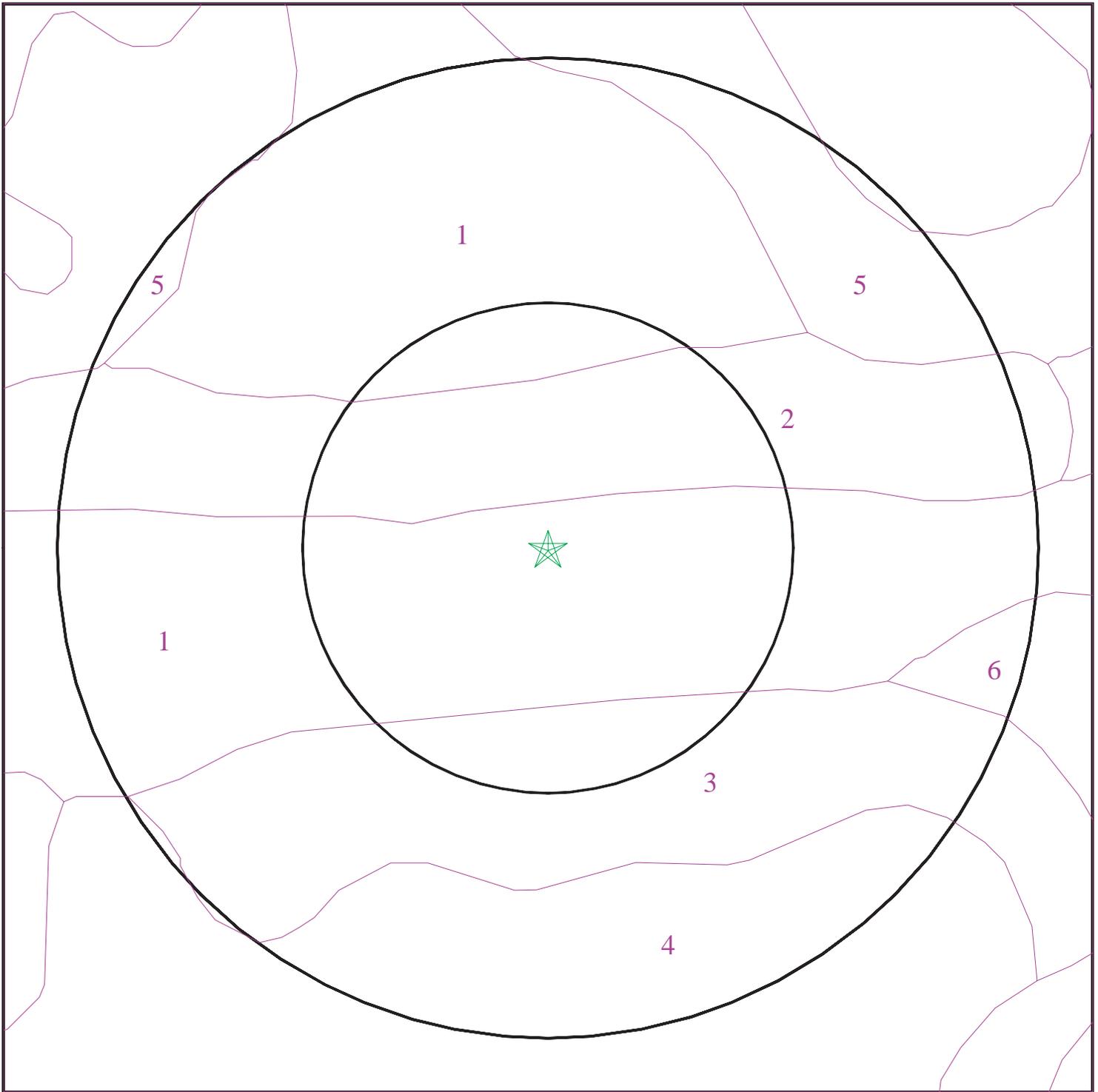
Era:	Cenozoic
System:	Tertiary
Series:	Eocene Claiborne Group
Code:	Te2 ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

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

# SSURGO SOIL MAP - 1717133.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Marshall USARC  
ADDRESS: 1209 East Pinecrest Drive  
Marshall TX 75670  
LAT/LONG: 32.5278 / 94.3544

CLIENT: ENSAFE  
CONTACT: Phil Hardy  
INQUIRY #: 1717133.2s  
DATE: July 18, 2006

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

### Soil Map ID: 1

Soil Component Name: BERNALDO

Soil Surface Texture: fine sandy loam

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

Soil Drainage Class: Well drained. 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: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
2	3 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	11 inches	43 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	43 inches	80 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50

### Soil Map ID: 2

Soil Component Name: MOOREVILLE

Soil Surface Texture: 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: Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
2	6 inches	52 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	52 inches	80 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50

### Soil Map ID: 3

Soil Component Name: CUTHBERT

Soil Surface Texture: 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: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 4.50

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	6 inches	26 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60
3	26 inches	34 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60
4	34 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.06	Max: 5.00 Min: 3.60

**Soil Map ID: 4**

Soil Component Name: KIRVIN

Soil Surface Texture: gravelly - 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: > 0 inches

Depth to Bedrock Max: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	gravelly - fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 6.00 Min: 2.00	Max: 7.30 Min: 5.10
2	8 inches	32 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60
3	32 inches	41 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 5.00 Min: 3.60
4	41 inches	61 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 5.00 Min: 3.60

### Soil Map ID: 5

Soil Component Name: CUTHBERT

Soil Surface Texture: gravelly - 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: > 0 inches

Depth to Bedrock Max: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	gravelly - fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 4.50
2	14 inches	30 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60
3	30 inches	36 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 5.50 Min: 3.60
4	36 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.06	Max: 5.00 Min: 3.60

### Soil Map ID: 6

Soil Component Name: WOLFPEN

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

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: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	4 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 4.50
2	4 inches	35 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 4.50
3	35 inches	50 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
4	50 inches	80 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50

### LOCAL / REGIONAL WATER AGENCY RECORDS

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

### WELL SEARCH DISTANCE INFORMATION

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

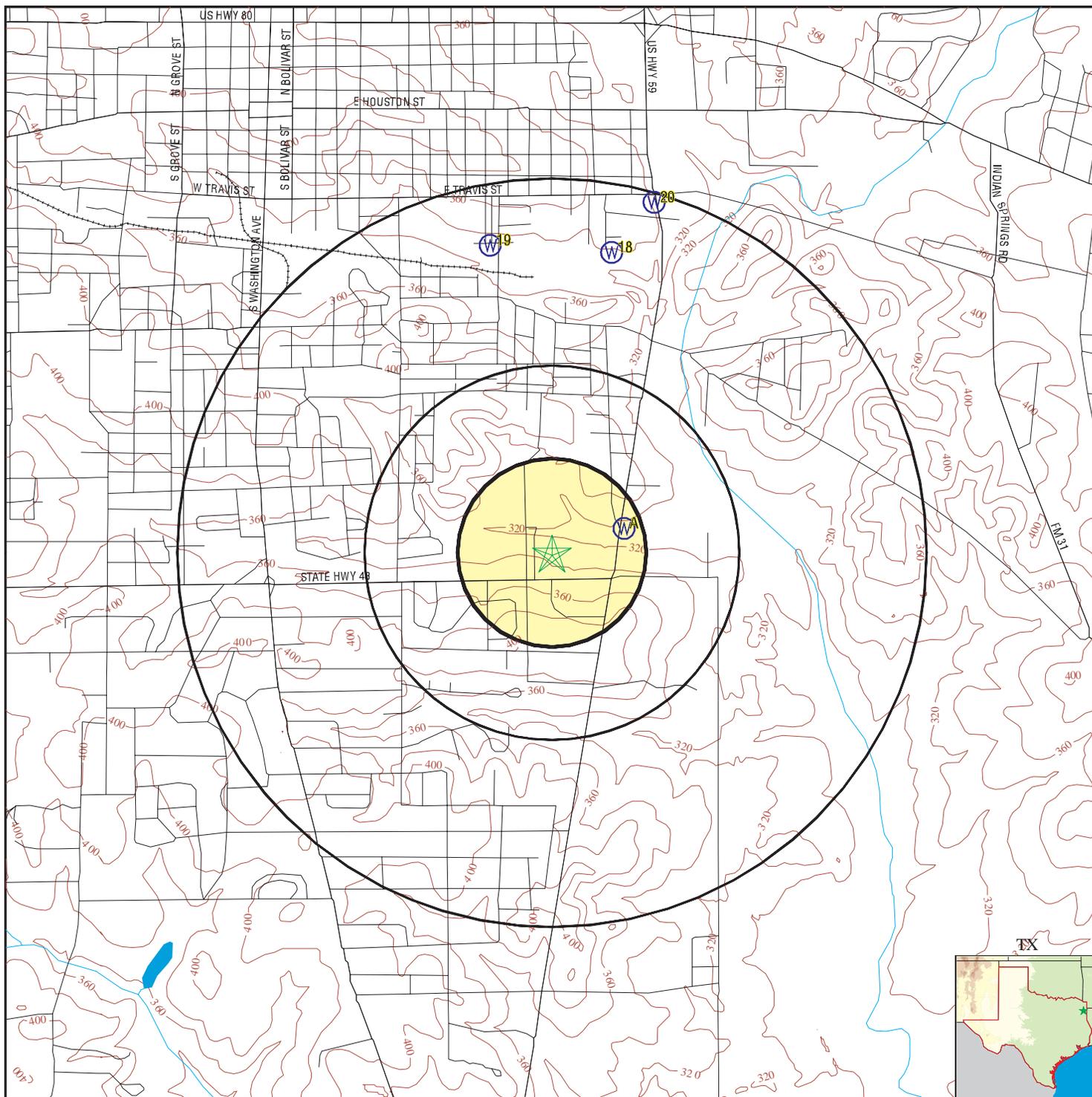
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	TXD1029683	1/8 - 1/4 Mile ENE
A2	TXD1029684	1/8 - 1/4 Mile ENE
A3	TXD1029682	1/8 - 1/4 Mile ENE
A4	TXD1029671	1/8 - 1/4 Mile East
A5	TXD1029672	1/8 - 1/4 Mile East
A6	TXD1029690	1/8 - 1/4 Mile ENE
A7	TXD1029676	1/8 - 1/4 Mile ENE
A8	TXD1029675	1/8 - 1/4 Mile ENE
A9	TXD1029674	1/8 - 1/4 Mile ENE
A10	TXD1029686	1/8 - 1/4 Mile ENE
A11	TXD1029687	1/8 - 1/4 Mile ENE
A12	TXD1029685	1/8 - 1/4 Mile ENE
A13	TXD1029688	1/8 - 1/4 Mile ENE
A14	TXD1029678	1/8 - 1/4 Mile ENE
A15	TXD1029677	1/8 - 1/4 Mile ENE
A16	TXD1029689	1/8 - 1/4 Mile ENE
A17	TXD1029679	1/8 - 1/4 Mile ENE
18	TX0000000013458	1/2 - 1 Mile North
19	TX0000000013457	1/2 - 1 Mile NNW
20	TXD1029817	1/2 - 1 Mile NNE

# PHYSICAL SETTING SOURCE MAP - 1717133.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil or gas wells (in certain Texas counties)



SITE NAME: Marshall USARC  
 ADDRESS: 1209 East Pinecrest Drive  
 Marshall TX 75670  
 LAT/LONG: 32.5278 / 94.3544

CLIENT: ENSAFE  
 CONTACT: Phil Hardy  
 INQUIRY #: 1717133.2s  
 DATE: July 18, 2006

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029683**

Rec id:	21649		
Edr site i:	61130	Edr record:	1
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB # 11
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN ,TX75694
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 05 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To		8 ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companynam:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-1 RED AND TAN MOTTLED CLAY SAND1-2 GRAY SILT2-4 LIGHT GRAY CLAY4-8 GRAY AND ORANGE TAN MOTTLED SILTY CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A2**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029684**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Rec id:	21650	Edr record:	1
Edr site i:	60890	Ownerwell:	SB # 10
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 05 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To		8 ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-2 REDDISH ORANGE SANDY LOAM2-5 SILTY LOAM, GRAY 5-7 GRAY & RED MOTTLED CLAY WITH ORGANIC MATERIAL7-8 DARK RED AND LIGHT GRAY CLAY WITH SANDSTONE PEBBLES		
Typesettin:	Not Reported		
Oid :	111		

**A3  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS TXD1029682**

Rec id:	21418	Edr record:	1
Edr site i:	18773	Ownerwell:	SB # 1
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 05 W
Elevation:	No Data	Gpsused:	GARMIN

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	10	ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsize:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-2 ORANGE TAN AND LIGHT GRAY MOTTLED SANDY LOAM2-4 ORANGISH TO TAN SANDY LOAM WITH 6 LAYERS OF REDDISH BROWN SILTY CLAY4-6 GRAY SANDY LOAM WITH 6 LAYERS OF SILTY ALAY (BROWN AND RED)6-7 GRAY S LOAM WITH 6 LAYERS OF SILTY CLAY7-8 GRAY SANDY LOAM		
Typesettin:	Not Reported		
Oid :	111		

**A4  
East  
1/8 - 1/4 Mile  
Lower**

**TX WELLS      TXD1029671**

Rec id:	21464	Edr record:	1
Edr site i:	45603	Ownerwell:	MW # 1
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcystate:	MARSHALL ,TX	Lat:	32&deg;    31    42N
Wcounty:	Harrison	Lon:	094&deg;    21    04    W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Monitor
Sdate:	9/4/2003	Completedd:	9/4/2003
Diameter:	8 in From Surface To	15	ft
Dmethod:	Hollow Stem Auger		
Bcompletio:	Not Reported		
Packedfrom:	3 ft to	15	ft
Packsize:	20/40		
Finterval:	From 0 ft to	1 ft with	2 CONCRETE (#sacks and material)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	HAND MIX	Cementedby:	DIXIE DRILLING
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Variance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data		
Packers:	BENTONITE CHIPS	1-3	
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-5 DARK REDDISH BROWN SANDY CLAY5-11 LIGHT TAN REDDISH SILTY CLAY11-13 DARK REDDISH CLAYEY SAND13-15 DARK GRAY SILTY SANDY SHALE		
Typesettin:	2 NEW PVC RISER	0-5 SCH 402	NEW
Oid :	PVC SCREEN	5-15 .010	
	111		

**A5  
East  
1/8 - 1/4 Mile  
Lower**

**TX WELLS TXD1029672**

Rec id:	21641		
Edr site i:	62889	Edr record:	1
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB #7
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN ,TX75694
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 42N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	12 ft	
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-2 ORANGE SANDY CLAY2-6 ORANGE, BROWN AND GRAY MOTTLED SILTY CLAY & SAND LOAM6-9 GRAY SILTY CLAY9-12 ORANGE BROWN SANDY CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A6  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS      TXD1029690**

Rec id:	17140			
Edr site i:	53322	Edr record:	1	
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB # 6	
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN	,TX75694
Grid:	35-30-7			
Waddress:	1996 HWY 59			
Wcystate:	MARSHALL ,TX	Lat:	32&deg;	31    45N
Wcounty:	Harrison	Lon:	094&deg;	21    05    W
Elevation:	No Data	Gpsused:	GARMIN	
Typeofwork:	New Well	Propuse:	Environmental Soil Boring	
Sdate:	9/3/2003	Completedd:	9/3/2003	
Diameter:	1.5          in From Surface To	5          ft		
Dmethod:	Not Reported			
Bcompletio:	Not Reported			
Packedfrom:	Not Reported			
Packsizes:	Not Reported			
Finterval:	No Data			
Sinterval:	No Data			
Tinterval:	No Data			
Usedmethod:	Not Reported	Cementedby:	Not Reported	
Contaminat:	Not Reported	Propertyli:	Not Reported	
Verrimetho:	Not Reported	Variance:	Not Reported	
Surface:	No Data	Staticleve:	No Data	
Flow:	No Data			
Packers:	No Data			
Cementinwe:	No Data	Typepump:	No Data	
Pumpbowl:	Not Reported	Welltests:	No Data	
Yield:	Not Reported			
Watertype:	No Data	Stratadept:	No Data	
Chemicalma:	No Data	Undesirabl:	No	
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required			
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY	
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707	
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Regnum: No Data  
 Comments: No Data  
 Ftdescript: 0-2 ORANGE SANDY LOAM2-4 ORANGE SILTY CLAY WITH LIGHT GRAY SILTY SAND4-5 SILTY CLAY  
 Typesettin: Not Reported  
 Oid : 111

**A7  
 ENE  
 1/8 - 1/4 Mile  
 Lower**

**TX WELLS TXD1029676**

Rec id:	21439	Edr record:	1
Edr site i:	69859	Ownerwell:	MW # 3
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Monitor
Sdate:	9/4/2003	Completedd:	9/4/2003
Diameter:	8 in From Surface To		18 ft
Dmethod:	Hollow Stem Auger		
Bcompletio:	Not Reported		
Packedfrom:	6 ft to 18 ft		
Packsizes:	20/40		
Finterval:	From 0 ft to 1 ft with		2 CONCRETE (#sacks and material)
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	HAND MIX	Cementedby:	DIXIE DRILLING
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Variance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data		
Packers:	BENTONITE CHIPS		1-6
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-5 DARK REDDISH BROWN SANDY CLAY5-11 LIGHT TAN REDDISH SILTY CLAY11-15 DARK REDDISH CLAYEY SAND15-18 DARK GRAY SILTY SANDY SHALE		
Typesettin:	2 NEW PVC RISER	0-8	SCH 402 NEW
	PVC SCREEN	8-18	.010
Oid :	111		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A8**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029675**

Rec id:	21374	Edr record:	1
Edr site i:	36667	Ownerwell:	SB # 17
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	5 ft	
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companynam:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-2 TAN SAND 2-5 TAN AND REDDISH MOTTLED CLAYEY SAND WITH IRON DEPOSITS AT 4-5		
Typesettin:	Not Reported		
Oid :	111		

**A9**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029674**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Rec id:	17144	Edr record:	1
Edr site i:	52697	Ownerwell:	SB # 2
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To		8 ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsiz:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO ,TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-4 ORANGISH GRAY AND TAN MOTTLED SANDY LOAM4-8 GRAY SANDY LOAM WITH LAYERS OF RED SILTY CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A10  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS TXD1029686**

Rec id:	21648	Edr record:	1
Edr site i:	61758	Ownerwell:	SB # 12
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	5	ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsiz:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-4 TAN AND ORANGISH BROWN MOTTLED SILTY CLAY4-5 RED, ORANGE, BROWN AND LIGHT GRAY MOTTLED CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A11  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS TXD1029687**

Rec id:	21397	Edr record:	1
Edr site i:	31634	Ownerwell:	SB # 4
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 04 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	8	ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsiz:	Not Reported		
Finterval:	No Data		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-4 FILL MATERIAL, BROWN AND LIGHT BROWN SILT & CLAY4-8 RED, ORANGE, BROWN AND LIGHT GRAY MOTTLED CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A12  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS      TXD1029685**

Rec id:	21647		
Edr site i:	61763	Edr record:	1
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB # 13
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN ,TX75694
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg;    31    44N
Wcounty:	Harrison	Lon:	094&deg;    21    04    W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5            in From Surface To	5            ft	
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-3.5 TAN SANDY CLAY GRADING TO BROWN AND ORANGE BROWN SILTY CLAY3.5-5 LIGHT TAN & RED MOTTLED SANDY SILTY CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A13  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS      TXD1029688**

Rec id:	21646			
Edr site i:	61783	Edr record:	1	
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB # 14	
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN ,TX75694	
Grid:	35-30-7			
Waddress:	1996 HWY 59			
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N	
Wcounty:	Harrison	Lon:	094&deg; 21 04 W	
Elevation:	No Data	Gpsused:	GARMIN	
Typeofwork:	New Well	Propuse:	Environmental Soil Boring	
Sdate:	9/3/2003	Completedd:	9/3/2003	
Diameter:	1.5 in From Surface To	5 ft		
Dmethod:	Not Reported			
Bcompletio:	Not Reported			
Packedfrom:	Not Reported			
Packsizes:	Not Reported			
Finterval:	No Data			
Sinterval:	No Data			
Tinterval:	No Data			
Usedmethod:	Not Reported	Cementedby:	Not Reported	
Contaminat:	Not Reported	Propertyli:	Not Reported	
Verrimetho:	Not Reported	Variance:	Not Reported	
Surface:	No Data	Staticleve:	No Data	
Flow:	No Data			
Packers:	No Data			
Cementinwe:	No Data	Typepump:	No Data	
Pumpbowl:	Not Reported	Welltests:	No Data	
Yield:	Not Reported			
Watertype:	No Data	Stratadept:	No Data	
Chemicalma:	No Data	Undesirabl:	No	
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required			
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY	
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707	
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Regnum: No Data  
 Comments: No Data  
 Ftdescription: 0-3.5 TAN CLAYEY SAND GRADING TO BROWN AND ORANGE BROWN SILTY CLAY3.5-5 LIGHT TAN AND RED SANDY CLAY  
 Typesettin: Not Reported  
 Oid : 111

**A14**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS TXD1029678**

Rec id:	21637	Edr record:	1
Edr site i:	62926	Ownerwell:	SB # 15
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 03 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To		13 ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescription:	0-2 TAN CLAYEY SAND GRADING TO BROWN AND ORANGE SITLY CLAY2-10 LIGHT TAN AND RED SANDY CLAY WITH LIGHT TAN SAND SEAMS BETWEEN 4 AND 710-13 LIGHT GRAY AND ORANGISH BROWN SILTY CLAY		
Typesettin:	Not Reported		
Oid :	111		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A15**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029677**

Rec id:	17139		
Edr site i:	53704	Edr record:	1
Owner name:	TIE INVESTORS LLC	Ownerwell:	SB # 16
Address:	429 MEMORY LANE	Citystatez:	WOODLAWN ,TX75694
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 03 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To	5 ft	
Dmethod:	Not Reported		
Bcompleto:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companynam:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-2 TAN SAND WITH SOME METAL FRAGMENTS OR DEPOSITS2-5 TAN AND REDDISH MOTTLED CLAYEY SAND WITH DEPOSITS		
Typesettin:	Not Reported		
Oid :	111		

**A16**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**TX WELLS      TXD1029689**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Rec id:	21378	Edr record:	1
Edr site i:	36315	Ownerwell:	SB # 5
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 44N
Wcounty:	Harrison	Lon:	094&deg; 21 03 W
Elevation:	No Data	Gpsused:	GARMIN
Typeofwork:	New Well	Propuse:	Environmental Soil Boring
Sdate:	9/3/2003	Completedd:	9/3/2003
Diameter:	1.5 in From Surface To		5 ft
Dmethod:	Not Reported		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsizes:	Not Reported		
Finterval:	No Data		
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	Not Reported	Cementedby:	Not Reported
Contaminat:	Not Reported	Propertyli:	Not Reported
Verrimetho:	Not Reported	Variance:	Not Reported
Surface:	No Data	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO , TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-5 RED, ORANGE, BROWN AND LIGHT GRAY MOTTLED CLAY		
Typesettin:	Not Reported		
Oid :	111		

**A17  
ENE  
1/8 - 1/4 Mile  
Lower**

**TX WELLS TXD1029679**

Rec id:	17148	Edr record:	1
Edr site i:	52586	Ownerwell:	MW # 2
Owner name:	TIE INVESTORS LLC	Citystatez:	WOODLAWN ,TX75694
Address:	429 MEMORY LANE		
Grid:	35-30-7		
Waddress:	1996 HWY 59		
Wcitystate:	MARSHALL ,TX	Lat:	32&deg; 31 43N
Wcounty:	Harrison	Lon:	094&deg; 21 02 W
Elevation:	No Data	Gpsused:	GARMIN

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Type of work:	New Well	Propose:	Monitor
Sdate:	9/4/2003	Completedd:	9/4/2003
Diameter:	8 in	From Surface To	15 ft
Dmethod:	Hollow Stem Auger		
Bcompletio:	Not Reported		
Packedfrom:	3 ft to	15 ft	
Packsize:	20/40		
Finterval:	From 0 ft to	1 ft with	2 CONCRETE (#sacks and material)
Sinterval:	No Data		
Tinterval:	No Data		
Usedmethod:	HAND MIX	Cementedby:	DIXIE DRILLING
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Variance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data		
Packers:	BENTONITE CHIPS	1-3	
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companyname:	DIXIE DRILLING	Companyadd:	9120 MARIANNA WAY
Ccitystate:	ALVARADO, TX 76009	Licensenum:	4707
Wsignature:	T. SHAUN OBANNON	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-5 DARK REDDISH BROWN SANDY CLAY5-11 LIGHT TAN REDDISH SILTY CLAY11-13 DARK REDDISH CLAYEY SAND13-15 DARK GRAY SILTY SANDY SHALE		
Typesettin:	2 NEW PVC RISER	0-5 SCH 402	NEW
Oid :	PVC SCREEN	5-15 .010	
	111		

**18  
North  
1/2 - 1 Mile  
Higher**

**TX WELLS TX0000000013458**

WELL DEPTH:	473	SOURCE OF DEPTH:	DRILLER'S LOG
TYPE OF LIFT:	NONE	TYPE OF POWER:	Not Reported
HORSEPOWER:	Not Reported	PRIMARY WATER USE:	UNUSED
SECOND WATER USE:	Not Reported	TERTIA WATER USE:	Not Reported
WATER LEVEL AVAIL:	N	WATER QUAL AVAIL:	Y
WELL LOGS AVAIL:	Not Reported	OTHER DATA AVAIL:	Not Reported
DATE COLL OR UPDAT:	Not Reported	REPORTING AGENCY:	US GEOLOGICAL SURVEY
WELL SCHED IN FILE:	Y	CONSTRUCT METHOD:	Not Reported
COMPLETION:	Not Reported	CASING MATERIAL:	Not Reported
SCREEN MATERIAL:	Not Reported	LITH LOG TYPE:	Not Reported
LITH INT BY:	Not Reported	LITH DATE:	Not Reported
TODAYS DATE:	04/07/1999 00:00:00	USER NAME:	Not Reported
STATE WELL NUMBER:	3530704	COUNTY CODE:	203
BASIN:	Sabine River	ZONE:	1
REGION NUMBER:	7	PREVIOUS WELL NU:	#67
LATITUDE:	323222	LAT DEC:	32.5394444
LONGITUDE:	942106	LONG DEC:	-94.3516667
OWNER 1:	City of Marshall	OWNER 2:	Not Reported
DRILLER 1:	Layne Texas Co.	DRILLER 2:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

SOURCE OF COORDS: 1  
 AQUIFER CODE: 124CPRS  
 AQUIFER ID1: Carrizo-Wilcox  
 AQUIFER ID2: Queen City  
 AQUIFER ID3: Not Reported  
 ELEV OF LSD: 332  
 METH OF MEAS ELEV: ALTIMETER  
 USER CODE ECON: 538090  
 DATE DRILLED: 06151937  
 WELL TYPE: Withdrawal of Water

STATE WELL NUMBER: 3530704  
 DD DATE: 12  
 MM DATE: 11  
 YY DATE: 1941  
 SAMPLE NUMBER: 1  
 STORET: HARDNESS, TOTAL (MG/L AS CaCO3)  
 FLAG: Not Reported  
 CONST VAL: 51  
 PLUS MINUS: Not Reported

STATE WELL NUMBER: 3530704  
 DD DATE: 0  
 MM DATE: 12  
 YY DATE: 1944  
 SAMPLE NUMBER: 1  
 STORET: IRON, TOTAL (UG/L AS FE)  
 FLAG: Not Reported  
 CONST VAL: 140.  
 PLUS MINUS: Not Reported

STATE WELL NUMBER: 3530704  
 DD DATE: 0  
 MM DATE: 12  
 YY DATE: 1944  
 SAMPLE NUMBER: 1  
 STORET: MANGANESE, TOTAL (UG/L AS MN)  
 FLAG: Not Reported  
 CONST VAL: 90.  
 PLUS MINUS: Not Reported

**Water Quality Information:**

STATE WELL NUMBER:	3530704	MM DATE:	11
DD DATE:	12	YYDATE:	1941
SAMPLE NUMBER:	1	SAMPLE TIME:	Not Reported
TEMP CENTIGRADE:	Not Reported	TOP S INTERVAL:	Not Reported
BOTTOM S INTERVAL:	Not Reported	SAMP INT AQCODE:	Not Reported
COLLECTION REMARKS:	Analysis taken from M-110	RELIABILITY REM:	04
COLLECTING AGENCY:	03	LAB CODE:	12
BU WQANALYSIS:	B	Q00955 FLAG:	Not Reported
Q00955 SILICA MGL:	Not Reported	Q00910 FLAG:	Not Reported
Q00910 CALCIUM MGL:	18	Q00920 FLAG:	Not Reported
Q00920 MAGNES MGL:	1.5	Q00929 FLAG:	c
Q00929 SODIUM MGL:	103	Q00937 FLAG:	Not Reported
Q00937 POTASS MGL:	Not Reported	Q01080 FLAG:	Not Reported
Q01080 STRONTIUM:	Not Reported	Q00445 CARB MGL:	0
Q00440 BICARB MGL:	177	Q00945 FLAG:	Not Reported
Q00945 SULFATE MGL:	100	Q00940 FLAG:	Not Reported
Q00940 CHLORIDE MG:	18	Q00951 FLAG:	Not Reported
Q00951 FLUORIDE MG:	.1	Q71850 FLAG:	Not Reported
Q71850 NITRATE MGL:	Not Reported	Q00403 FLAG:	Not Reported
Q00403 PH:	Not Reported	Q70300 TDS:	327
Q00415 PHEN ALK:	0	Q00410 TOTAL ALK:	145.04
Q00900 TOT HARDNES:	51	Q00932 PERCENT NA:	81
Q00931 SAR:	6.27	Q71860 RSC:	1.88
Q00095 FLAG:	Not Reported	Q00095 SPEC COND:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	cmuller

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

STATE WELL NUMBER:	3530704	MM DATE:	12
DD DATE:	0	YYDATE:	1944
SAMPLE NUMBER:	1	SAMPLE TIME:	Not Reported
TEMP CENTIGRADE:	Not Reported	TOP S INTERVAL:	Not Reported
BOTTOM S INTERVAL:	Not Reported	SAMP INT AQCODE:	Not Reported
COLLECTION REMARKS:	Not Reported	RELIABILITY REM:	Not Reported
COLLECTING AGENCY:	02	LAB CODE:	01
BU WQANALYSIS:	B	Q00955 FLAG:	Not Reported
Q00955 SILICA MGL:	22	Q00910 FLAG:	Not Reported
Q00910 CALCIUM MGL:	27	Q00920 FLAG:	Not Reported
Q00920 MAGNES MGL:	6	Q00929 FLAG:	c
Q00929 SODIUM MGL:	95	Q00937 FLAG:	Not Reported
Q00937 POTASS MGL:	Not Reported	Q01080 FLAG:	Not Reported
Q01080 STRONTIUM:	Not Reported	Q00445 CARB MGL:	0
Q00440 BICARB MGL:	195	Q00945 FLAG:	Not Reported
Q00945 SULFATE MGL:	100	Q00940 FLAG:	Not Reported
Q00940 CHLORIDE MG:	25	Q00951 FLAG:	Not Reported
Q00951 FLUORIDE MG:	.4	Q71850 FLAG:	<
Q71850 NITRATE MGL:	.4	Q00403 FLAG:	Not Reported
Q00403 PH:	7.9	Q70300 TDS:	371
Q00415 PHEN ALK:	0	Q00410 TOTAL ALK:	159.79
Q00900 TOT HARDNES:	92	Q00932 PERCENT NA:	69
Q00931 SAR:	4.31	Q71860 RSC:	1.36
Q00095 FLAG:	Not Reported	Q00095 SPEC COND:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	cmuller

**19**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**TX WELLS TX0000000013457**

WELL DEPTH:	375	SOURCE OF DEPTH:	ANOTHER GOVERNMENT AGENCY
TYPE OF LIFT:	NONE	TYPE OF POWER:	Not Reported
HORSEPOWER:	Not Reported	PRIMARY WATER USE:	UNUSED
SECOND WATER USE:	Not Reported	TERTIA WATER USE:	Not Reported
WATER LEVEL AVAIL:	H	WATER QUAL AVAIL:	Y
WELL LOGS AVAIL:	Not Reported	OTHER DATA AVAIL:	Not Reported
DATE COLL OR UPDAT:	06191970	REPORTING AGENCY:	TWDB or Predecessor Agency
WELL SCHED IN FILE:	Y	CONSTRUCT METHOD:	Not Reported
COMPLETION:	Not Reported	CASING MATERIAL:	Not Reported
SCREEN MATERIAL:	Not Reported	LITH LOG TYPE:	Not Reported
LITH INT BY:	Not Reported	LITH DATE:	Not Reported
TODAYS DATE:	04/07/1999 00:00:00	USER NAME:	Not Reported
STATE WELL NUMBER:	3530703	COUNTY CODE:	203
BASIN:	Sabine River	ZONE:	1
REGION NUMBER:	7	PREVIOUS WELL NU:	#68
LATITUDE:	323223	LAT DEC:	32.5397222
LONGITUDE:	942126	LONG DEC:	-94.3572222
OWNER 1:	City of Marshall	OWNER 2:	Not Reported
DRILLER 1:	Layne Texas Co.	DRILLER 2:	Not Reported
SOURCE OF COORDS:	1		
AQUIFER CODE:	124WLCX		
AQUIFER ID1:	Carrizo-Wilcox	AQUIFER ID2:	Not Reported
AQUIFER ID3:	Not Reported	ELEV OF LSD:	332
METH OF MEAS ELEV:	INTERPOLATED FROM TOPO MAP		
USER CODE ECON:	538090		
DATE DRILLED:	07 1937	WELL TYPE:	Withdrawal of Water

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

STATE WELL NUMBER:	3530703	MM DATE:	7
DD DATE:	22	YY DATE:	1940
SAMPLE NUMBER:	1		
STORET:	IRON, TOTAL (UG/L AS FE)		
FLAG:	Not Reported	CONST VAL:	400.
PLUS MINUS:	Not Reported		

STATE WELL NUMBER:	3530703	MM DATE:	12
DD DATE:	0	YY DATE:	1944
SAMPLE NUMBER:	1		
STORET:	IRON, TOTAL (UG/L AS FE)		
FLAG:	Not Reported	CONST VAL:	140.
PLUS MINUS:	Not Reported		

STATE WELL NUMBER:	3530703	MM DATE:	12
DD DATE:	0	YY DATE:	1944
SAMPLE NUMBER:	1		
STORET:	MANGANESE, TOTAL (UG/L AS MN)		
FLAG:	Not Reported	CONST VAL:	80.
PLUS MINUS:	Not Reported		

Water Level Information:

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-100	MM DATE:	0
DD DATE:	0	YY DATE:	1937
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	04
METHOD OF MEAS:	7	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-180.9	MM DATE:	11
DD DATE:	12	YY DATE:	1941
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	04
METHOD OF MEAS:	7	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-41.85	MM DATE:	6
DD DATE:	19	YY DATE:	1970
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	01
METHOD OF MEAS:	1	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-41.25	MM DATE:	3
DD DATE:	3	YY DATE:	1971
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	01
METHOD OF MEAS:	1	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-43.57	MM DATE:	2
DD DATE:	11	YY DATE:	1972
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	01
METHOD OF MEAS:	1	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	P
DEPTH FROM LSD:	-44.72	MM DATE:	2
DD DATE:	14	YY DATE:	1973
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	01
METHOD OF MEAS:	1	REMARK:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

STATE WELL NUMBER:	3530703	PN WELL VISIT MARK:	N
DEPTH FROM LSD:	Not Reported	MM DATE:	2
DD DATE:	7	YY DATE:	1974
MEASUREMENT NUMBER:	01	MEASURING AGENCY:	01
METHOD OF MEAS:	1	REMARK:	63
DATE ENTERED:	Not Reported	USER NAME:	Not Reported

Water Quality Information:

STATE WELL NUMBER:	3530703	MM DATE:	7
DD DATE:	22	YYDATE:	1940
SAMPLE NUMBER:	1	SAMPLE TIME:	Not Reported
TEMP CENTIGRADE:	Not Reported	TOP S INTERVAL:	Not Reported
BOTTOM S INTERVAL:	Not Reported	SAMP INT AQCODE:	Not Reported
COLLECTION REMARKS:	Not Reported	RELIABILITY REM:	Not Reported
COLLECTING AGENCY:	02	LAB CODE:	01
BU WQANALYSIS:	B	Q00955 FLAG:	Not Reported
Q00955 SILICA MGL:	24	Q00910 FLAG:	Not Reported
Q00910 CALCIUM MGL:	32	Q00920 FLAG:	Not Reported
Q00920 MAGNES MGL:	9	Q00929 FLAG:	c
Q00929 SODIUM MGL:	90	Q00937 FLAG:	Not Reported
Q00937 POTASS MGL:	Not Reported	Q01080 FLAG:	Not Reported
Q01080 STRONTIUM:	Not Reported	Q00445 CARB MGL:	0
Q00440 BICARB MGL:	195	Q00945 FLAG:	Not Reported
Q00945 SULFATE MGL:	94	Q00940 FLAG:	Not Reported
Q00940 CHLORIDE MG:	39	Q00951 FLAG:	<
Q00951 FLUORIDE MG:	.4	Q71850 FLAG:	<
Q71850 NITRATE MGL:	.4	Q00403 FLAG:	Not Reported
Q00403 PH:	7.2	Q70300 TDS:	384
Q00415 PHEN ALK:	0	Q00410 TOTAL ALK:	159.79
Q00900 TOT HARDNES:	116	Q00932 PERCENT NA:	62
Q00931 SAR:	3.62	Q71860 RSC:	.86
Q00095 FLAG:	Not Reported	Q00095 SPEC COND:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	cmuller

STATE WELL NUMBER:	3530703	MM DATE:	11
DD DATE:	12	YYDATE:	1941
SAMPLE NUMBER:	1	SAMPLE TIME:	Not Reported
TEMP CENTIGRADE:	Not Reported	TOP S INTERVAL:	Not Reported
BOTTOM S INTERVAL:	Not Reported	SAMP INT AQCODE:	Not Reported
COLLECTION REMARKS:	Analysis taken from M-110	RELIABILITY REM:	04
COLLECTING AGENCY:	03	LAB CODE:	12
BU WQANALYSIS:	B	Q00955 FLAG:	Not Reported
Q00955 SILICA MGL:	Not Reported	Q00910 FLAG:	Not Reported
Q00910 CALCIUM MGL:	10	Q00920 FLAG:	Not Reported
Q00920 MAGNES MGL:	3.9	Q00929 FLAG:	c
Q00929 SODIUM MGL:	89	Q00937 FLAG:	Not Reported
Q00937 POTASS MGL:	Not Reported	Q01080 FLAG:	Not Reported
Q01080 STRONTIUM:	Not Reported	Q00445 CARB MGL:	0
Q00440 BICARB MGL:	165	Q00945 FLAG:	Not Reported
Q00945 SULFATE MGL:	77	Q00940 FLAG:	Not Reported
Q00940 CHLORIDE MG:	15	Q00951 FLAG:	Not Reported
Q00951 FLUORIDE MG:	.2	Q71850 FLAG:	Not Reported
Q71850 NITRATE MGL:	Not Reported	Q00403 FLAG:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Q00403 PH:	Not Reported	Q70300 TDS:	276
Q00415 PHEN ALK:	0	Q00410 TOTAL ALK:	135.21
Q00900 TOT HARDNES:	40	Q00932 PERCENT NA:	82
Q00931 SAR:	6.05	Q71860 RSC:	1.88
Q00095 FLAG:	Not Reported	Q00095 SPEC COND:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	cmuller
STATE WELL NUMBER:	3530703	MM DATE:	12
DD DATE:	0	YYDATE:	1944
SAMPLE NUMBER:	1	SAMPLE TIME:	Not Reported
TEMP CENTIGRADE:	Not Reported	TOP S INTERVAL:	Not Reported
BOTTOM S INTERVAL:	Not Reported	SAMP INT AQCODE:	Not Reported
COLLECTION REMARKS:	Not Reported	RELIABILITY REM:	Not Reported
COLLECTING AGENCY:	02	LAB CODE:	01
BU WQANALYSIS:	B	Q00955 FLAG:	Not Reported
Q00955 SILICA MGL:	24	Q00910 FLAG:	Not Reported
Q00910 CALCIUM MGL:	33	Q00920 FLAG:	Not Reported
Q00920 MAGNES MGL:	7	Q00929 FLAG:	c
Q00929 SODIUM MGL:	73	Q00937 FLAG:	Not Reported
Q00937 POTASS MGL:	Not Reported	Q01080 FLAG:	Not Reported
Q01080 STRONTIUM:	Not Reported	Q00445 CARB MGL:	0
Q00440 BICARB MGL:	189	Q00945 FLAG:	Not Reported
Q00945 SULFATE MGL:	75	Q00940 FLAG:	Not Reported
Q00940 CHLORIDE MG:	27	Q00951 FLAG:	Not Reported
Q00951 FLUORIDE MG:	.4	Q71850 FLAG:	<
Q71850 NITRATE MGL:	.4	Q00403 FLAG:	Not Reported
Q00403 PH:	7.9	Q70300 TDS:	332
Q00415 PHEN ALK:	0	Q00410 TOTAL ALK:	154.87
Q00900 TOT HARDNES:	111	Q00932 PERCENT NA:	58
Q00931 SAR:	3.01	Q71860 RSC:	.87
Q00095 FLAG:	Not Reported	Q00095 SPEC COND:	Not Reported
DATE ENTERED:	Not Reported	USER NAME:	cmuller

**20  
NNE  
1/2 - 1 Mile  
Higher**

**TX WELLS TXD1029817**

Rec id:	21597	Edr record:	1
Edr site i:	68902	Ownerwell:	MW-4 & MW-5
Owner name:	Food Fast Holdings	Citystatez:	Tyler ,TX75701
Address:	2703 DC Drive Suite 100		
Grid:	35-30-7		
Waddress:	503 East end Boulevard		
Wcitystate:	Marshall ,TX	Lat:	32&deg; 32 29N
Wcounty:	Harrison	Lon:	094&deg; 20 59 W
Elevation:	No Data	Gpsused:	Garmin / Etrix
Typeofwork:	New Well	Propuse:	Monitor
Sdate:	3/11/2004	Completedd:	3/11/2004
Diameter:	8 in From Surface To	Completedd:	20 ft
Dmethod:	Hollow Stem Auger		
Bcompletio:	Not Reported		
Packedfrom:	Not Reported		
Packsiz:	Not Reported		
Finterval:	From 0 ft to .5 ft with 1 Concrete (#sacks and material)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sinterval:	From .5 ft to 1.5 ft with	1 Bentonite	(#sacks and material)
Tinterval:	From 1.5 ft to 20 ft with	11 20/40 sand	(#sacks and material)
Usedmethod:	Gravity	Cementedby:	Jackie Raines
Contaminat:	No Data	Propertyli:	No Data
Verrimetho:	No Data	Variance:	No Data
Surface:	Surface Slab Installed	Staticleve:	No Data
Flow:	No Data		
Packers:	No Data		
Cementinwe:	No Data	Typepump:	No Data
Pumpbowl:	Not Reported	Welltests:	No Data
Yield:	Not Reported		
Watertype:	No Data	Stratadept:	No Data
Chemicalma:	No Data	Undesirabl:	No
Certificat:	The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required		
Companynam:	Precision Probe and Drilling	Companyadd:	6133 Verona Lane
Ccitystate:	Shreveport , LA 71105	Licensenum:	54661
Wsignature:	Jackie Raines	Dsignature:	No Data
Regnum:	No Data		
Comments:	No Data		
Ftdescript:	0-5 Silty Clay Red and brown Moist5-10 Sandy clay redf and orange mottling moist10-15 Clayey sand tan moist to wet15-20 Clayey sand tan wet		
Typesettin:	2 New PVC	2.5-20 .0102	new PVC
Oid :	0-2.5 Riser 123		

# 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
HARRISON	.5	22	.0	.0	<.5	1.2

Federal EPA Radon Zone for HARRISON 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: 75670

Number of sites tested: 13

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.600 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 1999 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<sup>R</sup> 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

#### **Texas Groundwater Database**

Source: Texas Water Development Board

Telephone: 512-936-0837

#### **Texas Public Water Supply Database on Ground and Surface Water**

Source: Texas Commission on Environmental Quality

#### **Texas Water Wells DOL**

Source: Texas Department of Licensing and Regulation

Telephone: 512-463-6599

## OTHER STATE DATABASE INFORMATION

#### **Texas Oil and Gas Wells:** Inventory of oil and gas wells in select Texas counties

Source: Texas Railroad Commission

Oil and gas well locations in the following counties: Bexar, Brazoria, Collin, Dallas, Denton, El Paso, Fort Bend, Galveston, Gregg, Harris, Hidalgo, Jefferson, Lubbock, Montgomery, Nueces, Tarrant, and Travis.

### RADON

#### **State Database: TX Radon**

Source: Department of Health

Telephone: 512-834-6688

Final Report of the Texas Indoor Radon Survey

#### **Area Radon Information**

Source: USGS

Telephone: 703-356-4020

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

#### **EPA Radon Zones**

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## 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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"Linking Technology with Tradition"®

## Sanborn® Map Report

**Ship To:** Phil Hardy  
ENSAFE  
5724 Summer Trees Drive  
Memphis, TN 38134

**Order Date:** 7/18/2006    **Completion Date:** 7/18/2006  
**Inquiry #:** 1717133.3  
**P.O. #:** 0888802978 0025 TS01  
**Site Name:** Marshall USARC

**Customer Project:** EJV-ECP Proj.  
1013941ERN                      850-457-1796

**Address:** 1209 East Pinecrest Drive  
**City/State:** Marshall, TX 75670  
**Cross Streets:**

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

**NO COVERAGE**

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**EDR**® Environmental  
Data Resources Inc

## **EDR Historical Topographic Map Report**

**Marshall USARC  
1209 East Pinecrest Drive  
Marshall, TX 75670**

**Inquiry Number: 1717133.4**

**July 18, 2006**

## **The Standard in Environmental Risk Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

## EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900's.

*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**EDR**® Environmental  
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## **The EDR Aerial Photo Decade Package**

**Marshall USARC  
1209 East Pinecrest Drive  
Marshall, TX 75670**

**Inquiry Number: 1717133.5**

**July 20, 2006**

## **The Standard in Environmental Risk Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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***Thank you for your business.***  
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Data Resources Inc

**The EDR-City Directory**  
*Abstract*

**Marshall USARC**  
1209 East Pinecrest Drive  
Marshall, TX 75670

**Inquiry Number: 1717133.6**

**Tuesday, July 18, 2006**

**The Standard in  
Environmental Risk  
Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

**Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

## EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report 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.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## **SUMMARY**

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1924 through 1924. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

**Date EDR Searched Historical Sources:** July 18, 2006

**Target Property:**

1209 East Pinecrest Drive  
Marshall, TX 75670

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1924	Street Not Listed in Research Source	Page's City Directory

**Adjoining Properties**

**SURROUNDING**

Multiple Addresses  
Marshall, TX 75670

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1924	Street Not Listed in Research Source	Page's City Directory