



Protecting Texas  
by Reducing and  
Preventing Pollution

# **HAZARD RANKING SYSTEM DOCUMENTATION RECORD**

**for**

**Dorchester Refining Company  
A.K.A. Trey Corporation  
Mount Pleasant, Titus County, Texas  
TXD094096617; TCEQ SWR# 30509**

**Prepared by:**

**Texas Commission on Environmental Quality  
Superfund Site Discovery and Assessment Program  
Austin, Texas**

**December 2003**



**HRS**

**DOCUMENTATION  
RECORD**

**Dorchester Refining Company  
Mount Pleasant, Titus County, Texas**

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Hazard Ranking System  
Documentation Record

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**DORCHESTER REFINING COMPANY**

**MOUNT PLEASANT, TITUS COUNTY, TEXAS**

**TXD094096617; TCEQ SWR# 30509**

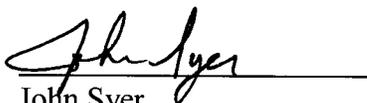
**SIGNATURE PAGE**



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12-5-03

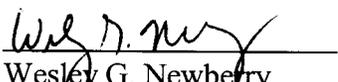
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## SITE SUMMARY

### General Description of the Site:

The site is located at Latitude 33° 09' 15" N and Longitude 94° 59' 15" W, at 1700 Block of West First Street, Mount Pleasant, Titus County, Texas. The site is located on the west border of the City of Mount Pleasant (Figure 1). The site is bordered by St. Louis Southwestern Railroad on the south, suburban areas to the west and north, Conoco to the northeast and residential area to the southeast (Figure 1).

### Site History:

#### Deed Search Summary (Ref. 8):

|                         |            |   |
|-------------------------|------------|---|
| Vol. 105, pp. 209-211 - | 11/13/1936 | Talco Pipeline Company purchased land tracts from individuals.  |
| Vol. 197, pp. 359-360 - | 11/24/1952 | American Liberty Oil Company purchased three tracts of land from individuals.   |
| Vol.229, pp. 481-482 -  | 01/15/1957 | American Liberty Oil Company purchased a tract of land from an individual.  |
| Vol. 415, pp. 271-277 - | 10/31/1977 | American Petrofina Company of Texas sold the site to Dorchester Refining Company.   |
| Vol. 480, pp. 20-25 -   | 11/01/1984 | Dorchester Refining Company sold two tracts (18 acres and 17.7 acres to Conoco (still active today).  |
| Vol. 483, pp. 311-315 - | 03/05/1985 | Dorchester Refining Company sold two tracts (2.6 and 6.7 acres) to individuals  |
| Vol. 490, pp. 445-450 - | 10/07/1985 | Dorchester Refining Company sold the site to Trey Corporation   |
| Vol. 607, pp. 137-151 - | 05/01/1990 | Trey Corporation sold the site to Indo American Refining Company, Inc. For \$3,350,000.00   |
| Vol. 796, pp. 103-116   | 09/13/1993 | Indo American Refining Company, Inc. defaulted on the note. The property was placed on bid, Trey Corporation was high bidder \$2,500,000.00 |
| Appraisal Information   | 07/17/2003 | Trey Corporation is listed as the current owner of the 109.27 acre site, according to the Titus County Appraisal District.                  |

Dorchester Refining was an active refinery from 1936 to 1984, refining gasoline, diesel, and asphalt products. The refinery operated as Talco Pipeline Company, American Liberty Oil Company, and American Petrofina Company of Texas from 1936 until it was sold to Dorchester Refining in 1977. Dorchester Refining refined gasoline, diesel, and asphalt products until September 1984. The crude oil storage tanks were sold to Cetex Pipeline Company and the bulk terminal including the leaded gasoline tanks were sold to Conoco. Trey Corporation purchased the property and refinery

equipment from Dorchester Refining on October, 1985. The closure plan was revised on April 28, 1987 and March 15, 1988. Approval for the closure was granted on April 13, 1988. Trey Corporation requested an extension of the closure plan on March 21, 1990. Trey Corporation sold the facility to Indo American Refining Company, Inc. on May 1, 1990. Indo American Refining Company filed bankruptcy in late 1992. Indo American defaulted on the note and Trey Corporation regained ownership of the site with a winning bid on September 13, 1993. Trey Corporation completed a Chapter 7 liquidation on November 6, 2000.

On October 11 and 18, 1995, a CEI was conducted (Ref. 3, pp. 16-27). A Notice of Violation (NOV) was issued on November 15, 1995 (Ref. 3, pp. 28-31). One of the directives given in the letter was for Trey Corporation to contact the TNRCC Closure group in Austin and pursue closure for the plant. On December 15, 1995, Trey Corporation submitted a response to the NOV letter, stating " We will contact our engineering firm to update our closure plan and send a copy to your office" (Ref. 3, pp. 32-33). Trey Corporation has not complied with the 1995 NOV letter and plant closure has not been initiated.

On July 27, 1998, the Remediation Division accompanied by Field Operation Division personnel conducted a sampling at the Trey Corporation Facility. Observed releases of pyrene, chrysene, benzo(b&k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene, cadmium, chromium, lead, and mercury were detected onsite at levels greater than three times background (Ref. 3, pp. 36-94). On April 12, 1999, the facility (SWR#30509; TXD094096617) was referred from the Remediation Division to the Field Operations Division, until enforcement actions were pursued and exhausted (Ref. 9). The Tyler Regional Office conducted inspections on April 25 and May 2, 2000, confirming that the facility was inactive and no closure or remediation activities had been initiated by Trey Corporation (Ref. 10). On August 20, 1999 and June 16, 2000, NOV letters were issued to Trey Corporation (Ref. 11). Trey Corporation filed for bankruptcy protection under Chapter 11 on July 31, 2000 which was converted to Chapter 7 on November 6, 2000. The bankruptcy case was closed by the court on June 8, 2001 after the Trustee reported there were no assets (Ref. 12). On November 28, 2001 the Enforcement Division referred the site to the Remediation Division, stating, "enforcement is no longer an effective option for addressing the contamination at the site" (Ref. 13). On October 14, 2002, a notification letter that the site was being evaluated for state superfund was issued to Mr. Rick McMillan, II, Owner of Trey Corporation of Vivian, Louisiana. The letter was returned undeliverable since Trey Corporation's bankruptcy was converted to Chapter 7 (Ref 14).

On October 29, 2002, the Remediation Division accompanied by Field Operation Division personnel conducted a sediment sampling event to document an observed release of hazardous substances to the PPE at perennial Tankersley Creek (Ref. 4). Observed releases of cadmium, chromium, and lead were documented in Tankersley Creek, and attributable to the site (Ref. 4, p. 1). Tankersley Creek is an HRS eligible wetland, Palustrine System, Forested Wetland, with a level II observed release documented at the PPE (Ref. 4, p. 1; and 5). Big Cypress Creek is documented as a fishery in The State of Texas Water Quality Inventory (Ref. 6, p. 15). The length of Cypress Creek Fishery potentially impacted by the site measures 8.6 miles to the end of the 15 mile target distance limit.

The site meets the criteria listed in the Federal Register 4.1.3.3.1 to assign a value of 20 due to an observed release of a hazardous substance (cadmium) with a BAP of 500 or greater, to a surface water with a fishery within the target distance limit (Ref. 1, Sec. 4.1.3.3.1; and 4.1.3.3.2). Alleged fish kills and pollution of Tankersley Creek have been attributed to the facility in the past (Ref. 7, p. 3). Several citizen complaints were filed against American Petrofina for alleged contamination of Tankersley Creek. In 1969, nine cows reportedly died after drinking from the creek. Site owners have reportedly cleaned up the creek four times since 1955, in response to complaints of pollution in the creek (Ref. 7, p. 3).

## HRS DOCUMENTATION RECORD - REVIEW COVER SHEET

**Name of Site:** Dorchester Refining Company

**Current Contact Person:** N/A; Chapter 7 - Dissolved Company

**Documentation Record:** Gary L. Hazelwood, TCEQ (903) 535-5108

**Pathway of Concern:** Surface Water Pathway

### Surface Water Pathway

The potential release of hazardous substances to the surface water pathway is of concern for this site. The overland drainage pathway from the site to the probable point of entry (PPE) at perennial Tankersley Creek measures 1.1 miles (Figure 3). Tankersley Creek flows approximately 6.4 miles to Big Cypress Creek; Big Cypress Creek flows 8.6 miles for the remainder of the 15 mile target distance limit (Figure 4). An on-site sampling event was conducted on July 27, 1998, by the TCEQ's Remediation and Field Operations Divisions (Ref. 3). Observed releases of pyrene, chrysene, benzo(b&k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene, cadmium, chromium, lead, and mercury were detected onsite at levels greater than three times background (Ref. 3, p. 37). On October 29, 2002, the Remediation and Field Operation Divisions conducted a sediment sampling event to document an observed release of hazardous substances to the PPE at perennial Tankersley Creek. Observed releases of cadmium, chromium, and lead were documented in Tankersley Creek, and attributable to the site (Ref. 4). Tankersley Creek is an HRS eligible wetland, Palustrine System, Forested Wetland, with a level II observed release documented at the PPE (Ref. 5). Since less than 0.1 miles of the wetland has documented hazardous substances detected, the environmental target scores as potential impact to the 6.4 mile wetland. Big Cypress Creek is documented as a fishery in The State of Texas Water Quality Inventory (Ref. 6, p. 15). The length of Cypress Creek Fishery potentially impacted by the site measures 8.6 miles to the end of the 15 mile target distance limit. The site meets the criteria listed in the Federal Register 4.1.3.3.1 to assign a value of 20 due to an observed release of a hazardous substance (cadmium) with a bioaccumulation potential factor value (BAP) of 500 or greater, to a surface water with a fishery within the target distance limit (Ref. 1, Sec. 4.1.3.3.1; and 2). Alleged fish kills and pollution of Tankersley Creek have been attributed to the facility in the past (Ref. 7, p. 3). Several citizen complaints were filed against American Petrofina for alleged contamination of Tankersley Creek. In 1969, nine cows reportedly died after drinking from the creek. The site ownership has reportedly cleaned up the creek four times since 1955, in response to complaints of pollution in the creek (Ref. 7, p. 3).

**Pathways, Components, or Threats Not Evaluated:**

**Groundwater Pathway**

Research into the source of drinking water in the area of the site revealed that it is supplied by surface water intakes on Lake Bob Sandlin. The Groundwater Pathway is not being evaluated due to the lack of a pathway target and the pathway score does not increase the site score.

**Soil Exposure Pathway**

The site is surrounded by a fence and no workers are on-site. The Soil Exposure Pathway is not being evaluated due to the lack of a pathway target and the pathway score does not increase the site score.

**Air Migration Pathway**

The Air Migration Pathway is not being evaluated since the pathway score does not increase the site score. There is no observed release for the Air Migration Pathway.

*(Although these pathways has not been evaluated, the TCEQ is concerned for all pathways surrounding the site. However, evaluation of these pathways would not have significantly increased the overall site score.)*

## **NOTE TO READER**

The following rule was used when citing references in the HRS Documentation Record:

The State predecessor agencies: Texas Water Quality Board (TWQB), Texas Department of Water Resources (TDWR), Texas Water Commission (TWC), Texas Air Control Board (TACB), and Texas Natural Resource Conservation Commission (TNRCC) referred to throughout this report are now known as the Texas Commission on Environmental Quality (TCEQ). The new agency, TCEQ, became effective September 1, 2002, as mandated under State House Bill 2912 of the 77th Regular Legislative Session.

## HRS DOCUMENTATION RECORD

**Name of Site:** Dorchester Refining Company

**Date Prepared:** 12/2003

**CERCLIS Site ID Number:** TXD094096617

**TCEQ ID#:** 30509

### SITE LOCATION:

**Street Address of Site:** 1700 Block of West First Street (see Figure 1, Site Location Map).

**City, County, State:** Mount Pleasant, Titus County, Texas

**Topographic Map:** US Geological Survey 7.5 Minute Topographic Map, Mount Pleasant, Tex. 1973 (Figure 1).

**Latitude:** 33° 09' 15" North      **Longitude:** 94° 59' 15" West

**TCEQ Region:** 5

### SITE SCORING SUMMARY:

#### Pathway Scores:

|                                   |       |
|-----------------------------------|-------|
| Groundwater Migration Pathway -   | NE    |
| Surface Water Migration Pathway - | 17.21 |
| Soil Exposure Pathway -           | NE    |
| Air Migration Pathway -           | NE    |
| NE - Not Evaluated                |       |

**HRS SITE SCORE: 8.60**



**Dorchester  
Refining  
Site**

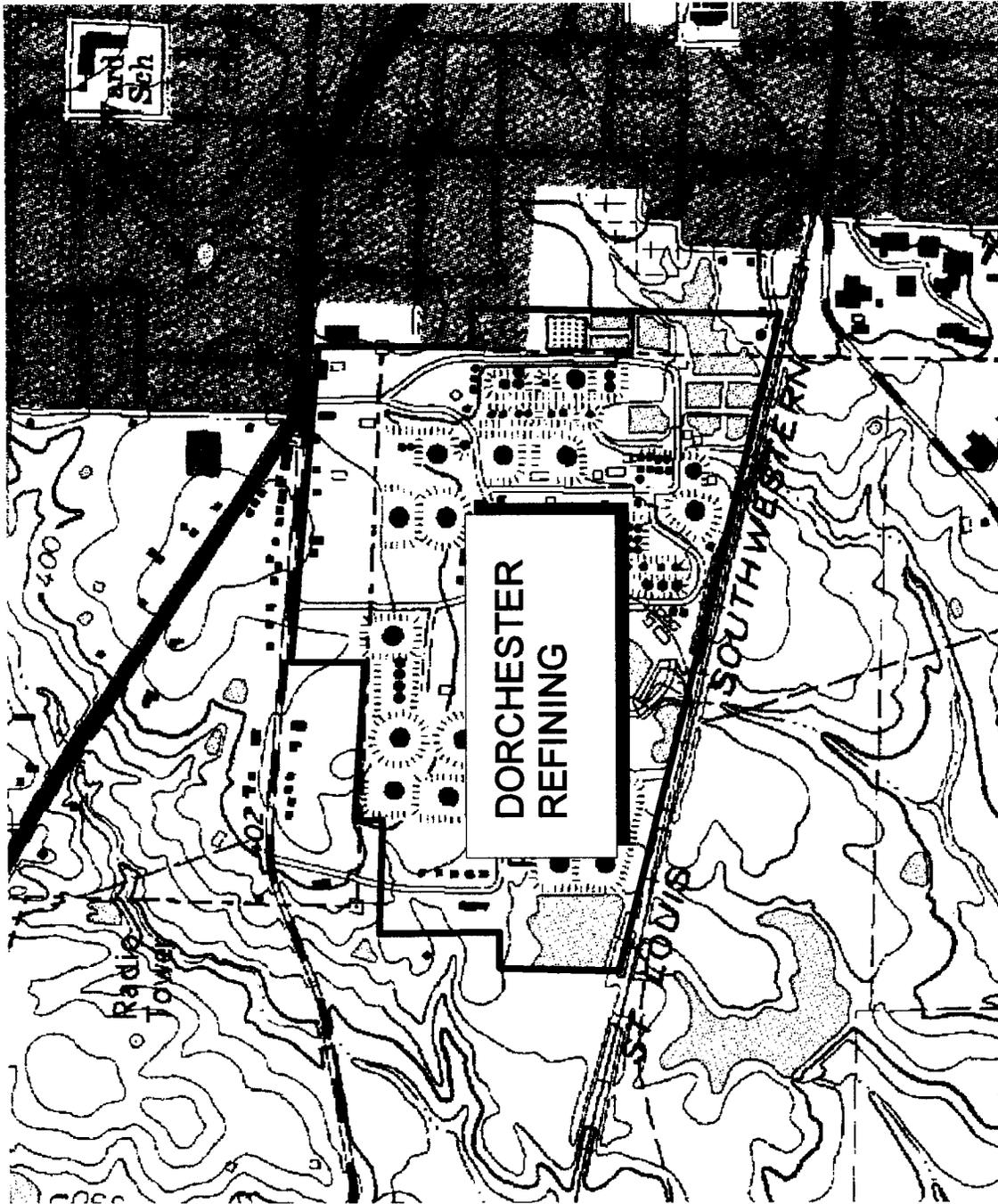
**Mount Pleasant  
(Titus County)  
Texas**

**TXD094096617  
SWR#30509**



**Figure 1**

**Site Location  
Map**



1 Miles

Source

The base data set used is the Mount Pleasant, TX 1:24,000 Digital Raster Graphic (DRG), which is a scanned image of a U.S. Geological Survey topographic map. UTM NAD 27 Zone 15



**Dorchester  
Refining Site**

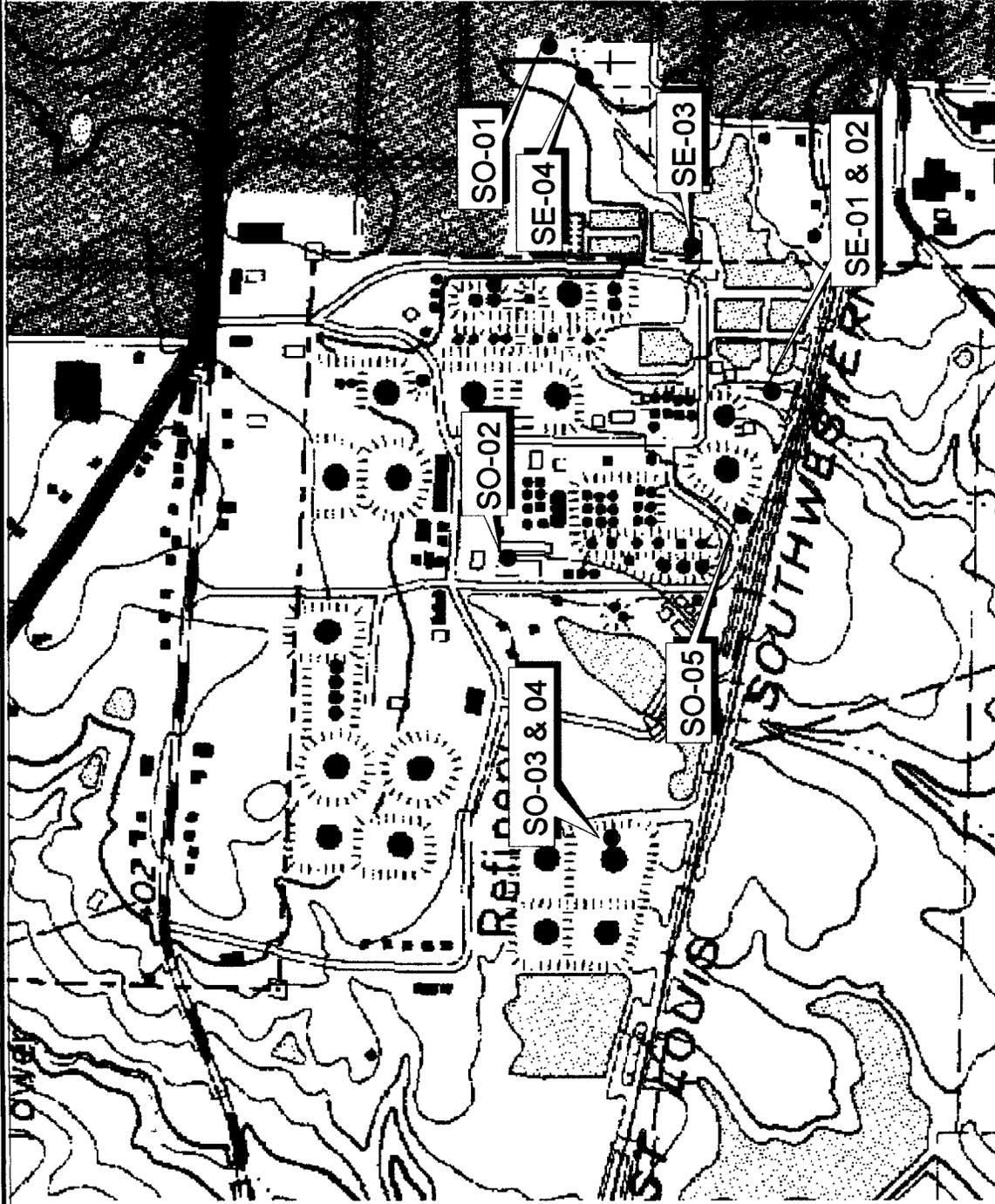
**Mount Pleasant  
(Titus County)  
Texas**

**TXD094006617  
SWR#30509**



**Figure 2**

**July 27, 1998  
On-Site Sample  
Location Map**



The base data set used is the Mount Pleasant, TX 1:24,000 Digital Raster Graphic (DRG), which is a scanned image of a U.S. Geological Survey topographic map. UTM NAD 27 Zone 15



Dorchester Refining Site

A.K.A. Trey Corporation

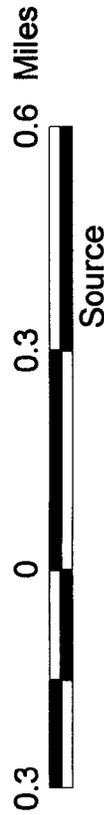
Mount Pleasant (Titus County) Texas

TXD094096617 SWR#30509



Figure 3

Overland Drainage Pathway and Sediment Sample Locations



The base data set used is the Mount Pleasant SW, TX 1:24,000 Digital Orthoquarter Quadrangles (DOQQs), which is a digital aerial photograph processed by the TCEQ GIS Section. UTM NAD 27 Zone 15



Dorchester Refining Site

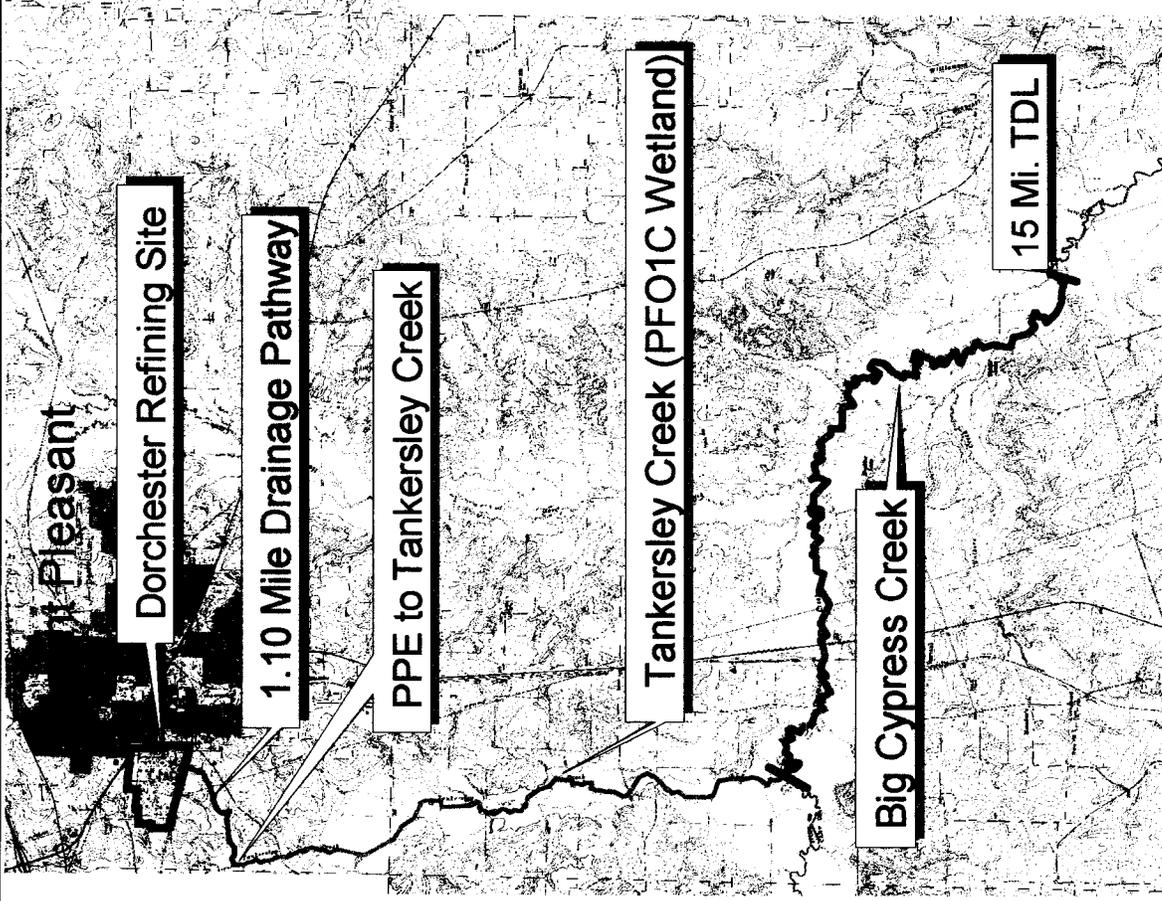
Mount Pleasant, (Titus County) Texas

TXD094096617 SWR#30509



Figure 4

Surface Water Drainage Pathway Map



Source

The base data sets used are the Mount Pleasant and Harvard, TX 1:24,000 Digital Raster Graphic (DRGs), which are scanned images of U.S. Geological Survey topographic maps. UTM NAD 27 Zone 15

## REFERENCES

- | <u>Reference Number</u> | <u>Description of the Reference</u>   |
|-------------------------|---|
| 1.                      | U.S. Environmental Protection Agency, 40CFR Part 300, <i>Hazard Ranking System</i> , Appendix A, 55 FR 51583, December 1990.  |
| 2.                      | U. S. Environmental Protection Agency, <i>Superfund Chemical Data Matrix (SCDM)</i> . June 1996.  |
| 3.                      | Hazelwood, Gary, Superfund Site Discovery and Assessment Program, Texas Commission on Environmental Quality, Superfund Site Discovery and Eligibility Determination Checklist, with attachments including photographs, prior site documentation, sample analysis results, summary table and COC tags. July 27, 1998. 99 pages.                        |
| 4.                      | Green, Sandra, Lower Colorado River Authority Environmental Laboratory Services, to Texas Commission on Environmental Quality, Sample Analysis Results for the October 29, 2002 Sediment Sampling Event. November 27, 2002. 51 pages.   |
| 5.                      | U.S. Department of the Interior. National Wetland Inventory Maps, Mount Pleasant and Harvard, Tex., 7.5 Minute Topographic Quadrangles. 1979. 2 pages.  |
| 6.                      | Texas Natural Resource Conservation Commission, <u>The State of Texas Water Quality Inventory</u> , 12 <sup>th</sup> Edition 1994, Volume 2. November 1994. 20 pages.   |
| 7.                      | U.S. Environmental Protection Agency, Superfund Site Strategy Recommendation - Region 6, with Roy F. Weston, Inc. Site Inspection Prioritization Report Attached. October 5, 1995. 7 pages.   |
| 8.                      | Titus County Deed Records: Vol. 105, pp. 209-211; Vol. 197, pp. 359-360; Vol.229, pp. 481-482; Vol. 415, pp. 271-277; Vol. 480, pp. 20-25; Vol. 483, pp. 311-315; Vol. 490, pp. 445-450; Vol. 607, pp. 137-151; Vol. 796, pp. 103-116; and Appraisal Information from the Titus County Appraisal District. Various dates from 1936 to 2003. 63 pages. |
| 9.                      | Newberry, Wesley G., Team Leader, Superfund Site Discovery & Assessment Program, Texas Natural Resource Conservation Commission, to Mark Vickery, Field Operations Division Director, Texas Natural Resource Conservation Commission. Interoffice Memorandum. April 12, 1999. 1 page.   |
| 10.                     | O'Sullivan, Jr. , Bill and Mike Brashear, Texas Natural Resource Conservation Commission. Inspection Report. April 25, and May 2, 2000. 6 pages.  |

## REFERENCES CONTINUED

- | <u>Reference Number</u> | <u>Description of the Reference</u>   |
|-------------------------|---|
| 11.                     | Brashear, Mike, Tyler Region Office Waste Section Manager, Natural Resource Conservation Commission, to Mr. Rick McMillan, II, Trey Corporation of Vivian Owner. Notice of Violation Letter. June 16, 2000. 5 pages.  |
| 12.                     | Espinosa, Denise, Bankruptcy Program Manager, Texas Natural Resource Conservation Commission. To Susan Johnson, Enforcement Division Enforcement Coordinator, Texas Natural Resource Conservation Commission. Interoffice Memorandum. July 16, 2001. 2 pages.         |
| 13.                     | Johnson, Susan, Enforcement Division Coordinator, Texas Natural Resource Conservation Commission, to Grace Tyner, Site Assessment and Management Section Manager, Texas Natural Resource Conservation Commission. Interoffice Memorandum. November 28, 2001. 2 pages. |
| 14.                     | Newberry, Wesley G., Team Leader, Superfund Site Discovery & Assessment Program, Texas Commission on Environmental Quality, to Mr. Rick McMillan, II, Trey Corporation of Vivian Owner. Notification of Assessment Letter. October 14, 2002. 5 pages.                 |